PHASE II PROPERTY ASSESSMENT REPORT
FORMER MANSFIELD STAMPING PLANT
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REPORT ISSUED:
June 2011

REVISED:
July 2015

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1.0 INTRODUCTION

1.1 General

Tetra Tech Inc. (Tetra Tech) was tasked by the Ohio Environmental Protection Agency (Ohio EPA) to complete a Phase II Property Assessment (PA) of the former General Motors (GM) Mansfield Stamping Plant (the Property) located at 2525 West Fourth Street, Ontario, Richland County, Ohio. The Phase II PA was conducted under the Ohio Voluntary Action Program (VAP) as codified by Ohio Administrative Code (OAC) 3745-300-07. The investigation was based on the Identified Areas (IAs) identified in the January 2011 Phase I PA completed by Tetra Tech on behalf of Ohio EPA for the Property. The Phase II PA was later revised on behalf of the Revitalizing Automotive Communities Environmental Response (RACER) Trust. The location of the Property is shown in Figure 1, and the IAs are outlined in Figure 2a. Figure 2b presents site topography.

The Property, the subject property parcels, history, and features are discussed in detail in the Phase I PA report (Tetra Tech 2011a.) The Property is located west of Mansfield in the City of Ontario, Richland County, Ohio. The former GM Mansfield Stamping Plant property is comprised of five parcels with a total of 266 acres of land. The Property is bound by commercial properties to the north, additional commercial properties including the Richland Mall to the east, a rail yard and State Route 309 to the south, and Beer Road followed by light industry (Burner Systems, Invensys, Universal Refrigeration, Yellow Trucking, and Shearer Equipment) and farmland to the west. The Property was developed in 1955 as a GM metal stamping plant known as “The Mansfield Stamping Plant.” GM ceased operations at the Property in February 2010; the Property is not currently in use, and the majority of the buildings have been demolished.

1.2 Purpose

The purpose of this Phase II PA is to conduct an investigation sufficient to determine whether all applicable standards are met or to determine that remedial activities conducted in accordance with rule 3745-300-11 of the Administrative Code at the Property meet or will achieve applicable standards.

The following sections present the IAs identified at the Property during the Phase I PA (see Tetra Tech 2011a), and the purpose of the investigation planned for each IA. The IAs are also summarized in Table 1 below.

Table 1
Mansfield Stamping Plant - Identified Areas, Scope of Work, and Purpose for Phase II Activities

Identified Area	IA #	Phase II Scope	Purpose
Snow Staging/Rack Storage Area	1(a,b,c)	Soil borings, soil boring water sampling, sediment sampling.	Evaluate potential soil and sediment impacts resulting from Ethylene Glycol Releases and rack wash area activities.
Former UST Farm	2	Soil borings, soil boring water sampling, monitoring well installation and sampling to confirm Ohio BUSTR NFA.	Evaluate potential soil and groundwater impacts associated with three USTs removed from the driveway area immediately south of the main plant.

Missing/ Misidentified USTs	3	Additional research, soil boring and monitoring well installation if warranted.	Locate and evaluate potential soil and groundwater impacts associated with potentially misidentified USTs.
Former WWTP	4	Soil borings, soil boring water sampling, monitoring well installation and sampling.	Evaluate potential soil impacts associated with the former WWTP.
Artificial Fill/Slope Area	5	Geophysical survey, soil borings, soil boring water sampling, test pits, monitoring well installation	Determine contents, construction, and evaluate potential soil and groundwater impacts resulting from possible landfilling south of the main plant.
Coal Storage Area	6	Soil borings, soil boring water sampling, monitoring well installation and sampling.	Evaluate potential shallow soil impacts resulting from coal storage.
Original Switch House	7	Surface water sampling (standing water in basement) and wipe sampling.	Screen potential building material impact from PCBs associated with the Switch House.
Stained sumps, stains and floor drains	8	Geophysical survey, borings as close as possible to "marriage station".	Evaluate the potential for soil and groundwater contamination associated with “the marriage station.” Sample adjacent to sump on building exterior.
Existing WWTP	9	Closed system with no evidence of release. IA not investigated further.	No evidence of a release associated with this issue. This IA is resolved.
Hazardous Waste Storage Area	10	Soil borings, soil boring water sampling, monitoring well installation and sampling.	Evaluate potential soil impact as a result of hazardous waste accumulation and storage in this area.

Asbestos Containing Building Materials	11	This IA was resolved.	ACBM abatement activities were completed in accordance with Ohio EPA requirements.
Wood Block Flooring	12	This IA was resolved.	Not within scope of Ohio VAP. Issue resolved through proper characterization and disposal.
South Field Lower Terrace Fill	13	Soil borings	Determine the presence of potentially impacted soil and to delineate the lateral and vertical extent of impacted soil in the area.
Eastern Raw Material Storage Area	14	Soil borings	Determine the potential impact associated with former raw material storage area.

1.2.1 Snow Staging/Rack Storage Area - IA-1 (a, b, and c)

IA-1 comprises the Snow Staging Area and the Rack Wash Storage Area west of the main plant building. Concerns associated with this area that required additional investigation were:

- Two historical ethylene glycol releases associated with snow melt system located in the parking areas west and northwest of the main plant (IA-1a and IA-1b).

- The storage process associated with parts “racks” prior to and after cleaning in the “rack wash” building (IA-1c)

1.2.2 Former Underground Storage Tank (UST) Farm - IA-2

The UST closure associated with IA-2 resulted in a BUSTR NFA. As a result, no further investigation was required under Ohio VAP. The UST Farm was located adjacent to the southwest corner of the main plant building. According to the Ohio BUSTR files, three USTs were removed from the subsurface in this area; two contained gasoline and one contained diesel. GM was issued a No Further Action (NFA) letter in association with the UST closure by BUSTR. Tetra Tech conducted limited Phase II activities in IA-2 to confirm that no potential impact associated with the former UST Farm remained.

1.2.3 Missing/Misidentified USTs - IA-3

IA-3 represents one area of the Property with the potential to have been a location for an AST that may have been misidentified as a UST (see Section 1.2.4 below). The purpose of the Phase II activities in IA-3 was an attempt to locate potential impact associated with the ASTs/USTs referenced on miscellaneous historical documents associated with the Property. Specifically, a report of a stainless steel AST at the northeastern corner of the main plant building was investigated.

1.2.4 Former Wastewater Treatment Plant (WWTP) - IA-4

Phase II activities were conducted at the Property to evaluate subsurface conditions in the area of the former waste water treatment plant. The former WWTP operated at the Property from 1955 through 1990, at which time it was replaced by the existing WWTP. The original plant was located just south of the baler house and included a system of piping, oil/ water separation tanks, and other storage and/or treatment tanks associated with the treatment process. Tetra Tech suspects the confusion regarding the records and registration of USTs/ASTs (IA-3) at the Property is the result of the misidentification of some of the elements of the Former WWTP as ASTs/USTs.

1.2.5 Artificial Fill/Slope Area - IA-5

The purpose of the Phase II PA activities conducted at IA-5 was to evaluate the contents of an area of artificial fill material associated with borrow excavated during the 1983 main plant expansion immediately to the north. During the Phase I PA records review, a figure associated with what may have been a protective filing under the Resources Conservation and Recovery Act (RCRA) in the early 1980s identified the area as a potential concern. The document contained a figure that illustrated an area along the driveway on the southern side of the main plant, adjacent to the former UST farm. The rectangular area is labeled “Former Landfill”. Tetra Tech’s inspection of the ground surface in this area during the Property inspection indicated evidence of filling and grading in this area that correlated to the area identified in the figure. No record of permitting associated with the feature was identified during the Phase I PA. Facility employees reported that the feature was clean fill associated with the 1983 expansion as well.

1.2.6 Coal Storage Area - IA-6

Coal used to fire boilers serving the Property was stored in bulk adjacent to the power house on the eastern side of the main plant. Phase II PA activities in this area were intended to evaluate shallow soils in this area for potential impact resulting from historical coal storage.

1.2.7 Original Switch House - IA-7

The Original Switch House at the Property once housed electrical equipment including transformers and other potentially polychlorinated biphenyls (PCBs) containing equipment. The purpose of Phase II activities in this area was to determine the potential for interior surfaces of building materials to have been impacted by PCB releases. Tetra Tech collected 10 PCB wipe samples from the surface of building materials in the switch house. Because VAP standards do not exist for PCB wipe sampling, the data generated was used as an indicator or screening tool to evaluate the need for possible additional subsurface investigation.

In addition, standing water was observed in the basement of the switch house. Tetra Tech collected one grab sample of the water for use as a screening tool and to aide in disposal of the water in the event it is needed.

1.2.8 Stained Flooring/Sumps/Floor Drains - IA-8

Concrete flooring, particularly in the area of the “marriage station” sump located in the basement of the Property, exhibited petroleum staining. While it is desirable to collect samples from

beneath the concrete flooring, it is reportedly greater than two (2) feet thick throughout this area of the sub-basement. As a result, sampling through the existing slab is not feasible. For this reason, during the Phase II investigation nonintrusive (geophysical) investigation techniques were used in the building interior to evaluate the condition of concrete flooring in the "marriage station" sump inside the main plant. Exterior subsurface soil sampling was conducted in proximity to the marriage station to evaluate the potential for past releases from this feature.

1.2.9 Existing WWTP - IA-9

The existing WWTP was constructed in 1990 to replace the former WWTP. The plant received waste and wastewater and includes a closed system of piping, oil/ water separation tanks, and other storage and/or treatment tanks associated with the process. The system is a closed loop and no evidence of a release was identified in association with this feature. In addition, the IA was limited to the foot print of the building. As a result, no Phase II PA activities were conducted in this area. This IA is considered resolved.

1.2.10 Hazardous Waste Storage Area - IA-10

Phase II activities at IA-10 were intended to evaluate subsurface conditions in the area of the former Hazardous Waste Storage/Accumulation Area and the adjacent "spill tank" area at the southwest corner of the main plant.

1.2.11 Asbestos Containing Building Materials (ACBM) – IA-11

At Ohio EPA's request, Tetra Tech conducted a review of available ACBM inspections completed for the "out buildings" at the Property. The main plant was not included in the request; however, Tetra Tech's review of ACBM records at the facility indicated that GM maintained a database of ACBM issues related to the main plant and that the database was quite detailed. This summary was prepared to aide in possible ACBM abatement activities during the redevelopment of the Property. ACBM is not within the scope of Ohio VAP and the demolition work at the Property was regulated and supervised by Ohio EPA. This IA is considered resolved.

1.2.12 Wood Block Flooring – IA-12

At Ohio EPA's request, Tetra Tech conducted sampling activities associated with wood block flooring located in several areas of the main plant. Tetra Tech Phase II activities included the collection of seven composite samples, each representing the particular area of the main plant in which the wood block flooring was observed. These locations included the following areas that have now been removed during the demolition of the main plant building:

- Press Room Pine Floor
- Shipping Pine Floor
- West Shipping Composite
- Tool Room Pine Floor
- West Shipping Pine Floor
- Shipping Composite Floor
- Press Room Pecan Floor

This IA has been addressed in accordance with appropriate regulatory requirements and is considered resolved.

1.2.13 South Field Lower Terrace Fill – IA-13

An additional IA was discovered following the completion of initial Phase II activities at the Property. In an effort to identify suitable fill material for basement areas during the demolition of the main building, the demolition contractor installed one shallow boring on the South Field Lower Terrace adjacent to and west of IA-5. The boring was installed using a solid flight auger and was not conducted under the direction of a VAP Certified Professional (CP).

During the drilling operation, the demolition contractor staff observed what they described as "visual black soil staining with a strong solvent odor" and fill material consisting of wood fiber and metal fragments. Tetra Tech conducted additional Phase II investigation activities in the immediate area of the demolition contractor boring to confirm the presence of potentially impacted soil and to delineate the lateral and vertical extent of impacted soil in the area.

1.2.14 Eastern Raw Material Storage Area – IA-14

The former Raw Material Storage Area was originally "lumped" under IA-9. VAP requires that each identified area be labeled separately, evaluated, and addressed in accordance with OAC 3745-300-06. As a result, this area has been re-designated as IA-14. Soil borings in this area were intended to determine the potential impact associated with former raw material storage in the area east of the main plant area.

Table 1 summarizes the general scope and objectives of Phase II activities completed for each IA.

1.3 Eligibility

Eligibility for participation in the VAP, per OAC 3745-300-02, requires evaluation of nine criteria to determine eligibility for inclusion in the VAP:

1. The Property must not be on the National Priorities List (NPL).
2. The Property must not be subject to the underground injection control program.
3. The Property must not be subject to RCRA corrective action permits.
4. The Property must not be subject to federal enforcement.
5. Facilities at which hazardous or solid waste facility closure is required are not eligible.
6. Properties subject to BUSTR regulation are not eligible under VAP.
7. Properties associated with oil and gas wells are not eligible under VAP.
8. Properties subject to active enforcement are not eligible under VAP.

The Property is not on the NPL and there are no wells subject to the underground injection control program in use at the Property. There is no active RCRA corrective action permits associated with the Property and it is not the subject of federal enforcement action. USTs at the Property were removed and closed in accordance with Ohio BUSTR and received an NFA in association with those activities. This fact requires the former UST farm to be considered an IA under Ohio VAP. There is no record of solid or hazardous waste permitting beyond RCRA generator status at the Property and there are no oil and/or gas wells located on the Property.

Storm water discharge from the Property is covered by an existing National Pollutant Discharge Elimination System (NPDES) permit 21S00045*GD. As a result, issues related to storm water discharge and the sediments in the surface drainage network up gradient of the discharge point fall under the purview of the NPDES permit. Issues that pertain to other regulatory programs such as NPDES are not eligible for inclusion in the VAP. Therefore, contaminant concentrations in surface water and sediments were collected for informational purposes only as part of the due diligence for the Property and are not subject to any VAP applicable standards. In addition, it should be noted that the network of drainage ditches and the pond that convey the Property runoff to the permitted outfall, appear to be perennially inundated in most areas of the Property.

1.4 Amendments to Phase I Property Assessment

Tetra Tech continued to evaluate the Property for evidence of potential impact during the Phase II PA. During the planning phases of the Phase II PA, it became apparent that external areas along the east and west sides of the main plant were historically used to store raw materials, manufacturing equipment (parts racks in particular), and finished goods atop asphalt and gravel parking areas. For this reason, IA-14 was added to incorporate the area associated with raw material storage along the east side of the main plant.

As mentioned previously, IA-13 also was added during the Phase II PA to address concerns associated with soil in the lower terrace area discovered by the demolition contractor.

Concerns associated with several IAs were resolved without need for additional Phase II investigation activities. Specifically, IAs 9, 11, and 12 have been resolved and are not carried throughout this document.

In addition, the Compressor Building was not available for inspection during the initial Phase I PA walk through inspection. The building was inspected during Phase II PA activities and is included in the Phase I PA update provided as Appendix A.

1.5 Limitations and Qualifications

The thickness of the concrete floor throughout the main plant and in the sub-basement “marriage station” area in particular limited intrusive subsurface sampling in that area of the Property.

RACER Trust and Tetra Tech relied on Ohio EPA VAP Technical Assistance (TA) support in the completion of this investigation. In addition to guidance comments, each review (March 2013 and March 2015) presented a “summary of ground water – related issues that have been deemed satisfactorily met.” Copies of the summaries from each TA review are provided as Appendix B.

1.6 Current and Intended Land Use

The Property has historically been used by the GM Corporation as a Metal Stamping Plant. GM constructed the facility in 1955 and operated there continuously until 2010. For the majority of the study period, the Property was unoccupied and intended to remain industrial use. In December 2012, RACER sold the Property to Brownfield Communities Development Company (BCDC). BCDC's intended future use remains commercial/industrial.

2.0 PHASE II ASSESSMENT PROCESS AND METHODOLOGIES

This Phase II PA was conducted in accordance with Ohio EPA VAP Phase II rule as codified at OAC 3745-300-07 and in accordance with Tetra Tech's approved Site Specific Work Plan (SSWP) dated March 18, 2011, which included a detailed Field Sampling Plan (FSP). These documents are provided as Appendix C. Due to the need to complete the initial Phase II field investigation by June 2011, Tetra Tech's approved scope of work was based on an expedited and iterative approach, with ongoing evaluation of data as it became available and modification of the field program based on incoming data and field observations. Based on this approach and discussions with Ohio EPA, the scope of work was modified as the investigation progressed to include several additional borings; borings completed at depths greater or less than anticipated, and the addition of several field tasks. In October 2011, Racer Trust contracted Tetra Tech to continue Phase II activities at the Property and to provide Ohio EPA VAP CP support through the NFA process. The additional Phase II activities were completed November 2012. Following the transfer of the Property to BCDC in December 2012, demolition activities associated with the main plant building were initiated. During demolition, BCDC's demolition contractor collected a soil sample in the South Field Lower Terrace area while evaluating soil for use as fill. The contractor informed RACER that there was evidence of potential solvent contamination in the sample. As a result, Tetra Tech returned to the Property in June 2013 to conduct additional Phase II activities in the South Field Lower Terrace area. Specific information regarding the process and associated methods is presented in the following sections.

2.1 Phase II Tasks

Tetra Tech's initial Phase II SSWP, which was approved by Ohio EPA, included the following activities:

1. Advance 27 soil borings with continuous sampling of subsurface soil to depths of 10 to 55 feet below ground surface (bgs), and 15 soil borings to five feet bgs utilizing Direct Push Technology (DPT) drilling methods.

2. Install 12 groundwater monitoring wells using hollow stem auger techniques.

3. Install four deep borings using DPT.

4. Conduct continuous sampling and logging of soil cores, and check the soil samples for volatile organic compounds (VOCs) using a photoionization detector (PID).

5. Collect, at a minimum, one soil sample and one groundwater sample (if encountered) from each boring for submittal to a laboratory for analysis.

6. Collect and submit for analysis 3 surface water samples, one from the basement of the Switch House and two from the stormwater pond (intake and outfall).

7. Collect and submit for analysis 11 sediment samples from drainage ditches throughout the Property.

8. Collect groundwater samples from the 12 groundwater monitoring wells for laboratory analysis.

9. Conduct aquifer pump tests and recovery tests to determine hydrogeologic properties at the Property.

10. Conduct geophysical surveys using Ground Penetrating Radar (GPR) to identify possible locations of unmarked USTs, investigation of potential on-site landfills, and to gauge the integrity of the concrete in the basement of the building where the sumps meet and are networked to the WWTP (known as the “Marriage Station”).

11. Conduct PCB wipe sampling at the original Switch House on the Property to gauge the presence of PCBs.

12. Install soil borings and test pits to determine contents of the soil fill materials in IA-5.

13. Analyze samples of the two types of wood flooring (pecan and pine) present in the main manufacturing plant for Toxicity Characteristic Leaching Potential (TCLP) analysis.

14. Review asbestos documentation provided by the trust related to the “out buildings”, including the Power House, Existing WWTP, original Switch House, and rack wash building to identify data gaps and present available data.

Table 1 summarizes the Phase II activities completed and specific objectives of all activities relative to Ohio VAP requirements to investigate the 14 IAs. Note that the scope of work described above reflects modifications from the scope originally proposed in Tetra Tech's SSWP dated March 2011 (Tetra Tech 2011a). The scope was modified through discussions with, and approval by, Ohio EPA as the investigation progressed and field data and observations of actual conditions became available, to optimize the effectiveness of the data collection activities.

Investigation data collection activities were completed in accordance with OAC 3745-300-007 (D) and (E) to identify and evaluate each IA for the presence of Contaminants of Concern (COCs). Sample locations were selected with a bias toward areas in which contamination was most likely to be found in association with known or potential releases of hazardous waste and/or petroleum. Laboratory analyses were completed by Ohio VAP Certified Laboratories in accordance with OAC 3745-300-04. Laboratory services for this project were completed by Test America Laboratories in North Canton and Dayton, Ohio and Microbac’s Ohio Valley Division located in Marietta, Ohio through Ohio EPA’s Statewide Analytical Services Contracts.

2.1.1 Soil Borings

The distribution of COCs throughout the Property soils was determined by installing 82 continuously sampled DPT and hollow-stem auger borings. Hollow-stem auger borings were placed in addition to the DPT borings, throughout the Property to gauge geologic and hydrogeologic conditions. Soil borings were distributed across eleven (11) IAs (IA-1A, IA-1B, IA-1C, IA-2, IA-3, IA-4, IA-5, IA-6, IA-10, IA-13, IA-14), with locations and sampling depths biased toward areas in which the greatest chance for contamination may exist, and/or in areas where hydrogeological data was necessary. Soil sampling was not required in the remaining four IAs (7, 9, 11, & 12) as they were resolved without the need for soil or groundwater sampling activities. Boring locations were selected to provide the most conservative representation of COCs at the Property. Soil boring locations are shown on Figures 3A, 3B, 3C, 3D, 3E, 3F, and 3G.

The initial subsurface investigation took place in April 2011 and included installation of DPT soil borings in IAs 1, 2, 3, 4, 5, 6, 10, and 14 using two DPT rigs. Deep borings were installed in IAs 1, 4, and 6 to depths of 52 to 76 feet bgs using hollow-stem auger drilling techniques. These deep borings provided Property specific geological information, specifically detailed Property stratigraphy and depth to bedrock.

In April and May 2011, Tetra Tech placed four DPT soil borings and excavated seventeen 7-foot deep test pits to evaluate the IA-5 soil pile/slope fill area. Soil boring and test pit locations are shown on Figure 3B. During the DPT and test pit investigation, soil was visually inspected and field screened using a PID. Because no staining, waste materials, or other unusual features were observed in the soil borings, one composite soil sample was collected from the materials retrieved from the four DPT borings and was submitted for analysis. The test pits were arranged to provide a comprehensive view of the filled area surface including the sloping southern portion, for the length of the feature. Four composite soil samples were collected from selected test pits and submitted for analysis.

In May 2011, four additional soil borings were installed to delineate contamination detected in the area of IA-4. Two additional 10-foot borings (IA4-8 and IA4-9) were placed south of the baler house, one 30-foot boring was placed adjacent to IA4-3, and one 30-foot boring (IA4-10) was placed just north of the Coil Steel Rack Building. In addition, boring location IA4-4 was re-drilled to a depth of 80 feet bgs. May 2011 soil boring locations are shown on Figure 3A.

In December 2011, Tetra Tech installed 20 shallow borings (IA4-11 through IA4-30) in IA-4 to delineate the extent of soil polynuclear aromatic hydrocarbons (PAHs) concentrations (specifically, naphthalene) exceeding the Generic Direct Contact Standard (GDCS). Soil borings IA4-11 through IA4-30 were placed outward from soil boring IA4-3 which showed the initial PAH exceedance. Soil borings IA4-11 through IA4-31 locations are shown on Figure 3E. A total of 40 soil samples (two from each location) were submitted to evaluate PAH in the 0-2 foot and 2-4 foot intervals. Laboratory analytical results associated with the December 2011 provided the delineation required for the southern portion of IA-4, but did not clearly delineate soil conditions in the northern portion of the IA.

In November 2012, Tetra Tech installed an additional eight soil borings (IA4-31 through IA4-38) in the area north of the December 2011 IA-4 locations to further delineate the extent of the PAH contamination. Two soil samples were collected from each boring in the 0-2 foot and 2-4 foot intervals. A total of 16 soil samples (two from each location) were submitted for PAH analysis. Soil borings IA4-31 through IA-38 locations are shown on Figure 3E. Analytical results from this event provided adequate delineation of the northern portion of IA-4.

In June 2013, Tetra Tech installed 32 additional shallow borings (IA13-1 through IA13-32) in the South Field Lower Terrace Fill area to evaluate the potential for impacted soil in the area as a result of the observations made by the demolition contractor during their borrow material boring operation. Soil borings IA13-1 through IA13-32 were placed radially outward from the demolition contractor's exploratory soil boring located on the lower terrace. Soil boring (IA13-1 through IA13-32) locations are shown on Figure 3F. Soil samples were collected continuously between the surface and 12 feet bgs; each sample was field screened with a PID. One soil sample was selected from each boring for laboratory analysis; two samples were selected from soil borings IA13-4 and IA13-30 based on field PID readings. A total of 34 samples were submitted to the laboratory for VOC analysis by EPA Method 8260A. Boring logs and monitoring well diagrams are provided in Appendix D.

2.1.2 Soil Sampling and Analysis Methodology

Drilling services were provided by HAD Drilling, Inc. using DPT and hollow-stem auger techniques. Drilling and sampling activities were conducted under the supervision of Tetra Tech personnel. Soil borings installed using DPT were continuously sampled using a five foot long, 3.25-inch outer diameter (OD) probe rod with single-use 2-inch outer diameter by 60 inch PVC sampler liners. Soil sampling in deep borings installed using hollow-stem auger techniques was accomplished using a 1 $^{3}/_{4}$-inch diameter split spoon sampler.

A portion of each sample was immediately placed into a 2-ounce glass jar with a Teflon-lined lid provided by either Test America or Microbac. The remaining portion of the soil sample was placed in a clean Ziploc bag for field headspace screening using a MiniRae PID. Prior to screening the samples, the PID was calibrated per the manufacturer's instructions using an isobutylene gas standard. Sample screening was completed by inserting the intake portion of the PID into the Ziploc bag, and closing the Ziploc around the PID intake. PID readings were included in the field log completed by the Tetra Tech geologist.

PID screening results and visual observations were used to select samples to be sent to the laboratory for analysis. The specific analytical parameters for each sample varied by IA and were determined based on the suspected types of contaminants given the nature of activities that occurred in each area or along potential migration pathways leading to that area. The parameters included: VOCs by U.S EPA Method 8260A, PAHs by U.S EPA Method 8270C, PCBs by U.S EPA Method 8082, RCRA metals (arsenic, lead, barium, selenium, cadmium, chromium, silver, and mercury) by U.S. EPA Methods 6010B and 7471A, gasoline and diesel range total petroleum hydrocarbons (TPH Gasoline Range Organics [GRO]/Diesel Range Organics [DRO]) by U.S. EPA Method 8015A, and Ethylene Glycol by U.S. EPA Method 8015m. The selected soil samples were sent to Test America Laboratories in North Canton, Ohio for analysis. Certain parameters (specifically ethylene glycol) were analyzed by Test America's Dayton, Ohio laboratory. These laboratories are certified under the Ohio VAP for all analyses performed under this investigation.

2.1.3 Soil Test Pits

Tetra Tech installed 17 test pits to a depth of approximately 10 feet bgs using an excavator in May 2011 to evaluate the potential that IA-5, the area adjacent to the slope south of the main plant, reportedly comprised of fill material taken from other areas of the Property during the 1983 plant expansion. The test pits were arranged to provide a comprehensive view of the surface of the filled area including the sloping southern portion, for the length of the feature (Figure 3B). Tetra Tech field staff supervised the installation of the pits, monitored the ambient air conditions in the excavation area, screened soil samples using a PID, and collected four random composite soil samples (one from the base of each of the 17 locations) for laboratory analysis for VOCs by U.S EPA Method 8260A, PAHs by U.S EPA Method 8270C, PCBs by U.S EPA Method 8082, and RCRA metals (arsenic, lead, barium, selenium, cadmium, chromium, silver, and mercury) by U.S. EPA Methods 6010B and 7471A.

In addition to the test pits, Tetra Tech conducted a geophysical survey (Ground Penetrating Radar - see Section 2.1.11) and soil borings (see Section 2.1.2) to evaluate subsurface conditions on the sloped area. The area along the break in the slope appears to have been graded and partially filled with native soil during grading activities associated with the main

plant expansion in 1983. None of the investigative activities revealed evidence of landfilling or waste disposal activities in this area.

2.1.4 Monitoring Well Installation and Sampling

Tetra Tech installed 12 groundwater monitoring wells at the Property using hollow-stem auger drilling techniques. The 12 locations and depth ranges were selected where soil sampling was not previously completed during the direct-push boring program, continuous samples of the subsurface materials were collected using 24-inch split-spoon samplers to locate and characterize zones of potential saturation. Monitoring well installation and groundwater sampling activities were completed in accordance with Ohio EPA Division of Drinking and Groundwater's "Guidance for Hydrogeological Investigations and Groundwater Monitoring" (Ohio EPA 2005-2009). Tetra Tech personnel observed drilling, sampling, and well installation. Monitoring well locations were selected based on field observations and field screening during the direct-push sampling operation and biased toward areas in which the greatest potential for groundwater contamination was perceived. In addition, the occurrence of water in the unconsolidated subsurface materials at the Property was observed to be sporadic and at many locations no saturated materials were encountered. Where present, the depth, lateral extent, and yield of saturated zones varied from location to location; however, in general all saturated zones encountered were noted to be relatively thin, laterally and vertically discontinuous, and did not appear to produce significant quantities of water. Saturated materials were only observed in two borings in the northern portion of the Property; moist to saturated materials were encountered more frequently in borings in the area south of the plant building.

Monitoring wells were installed at all locations where field observations indicated saturated or possibly saturated materials. Monitoring wells were installed using 4.25 inside diameter (i.d.) hollow-stem augers resulting in a 6-inch soil boring. Wells were constructed of 2-inch, schedule 40 PVC with 10-foot screened intervals. At one location, MW5-2S, a 5 foot screened interval was required due to the shallow horizon being monitored which is 10 feet to 15 feet bgs. Monitoring well logs and well construction diagrams are provided in Appendix D. Monitoring well locations are shown on Figure 3G.

Monitoring wells were developed by pumping and surging prior to sampling. Tetra Tech waited a minimum of 48 hours after development prior to sampling. Monitoring wells were sampled by Tetra Tech personnel using a Grundfos submersible sample pump and low flow techniques where feasible. However, at some wells, the limited amount of water in, or yield of, the well prevented use of pumps. In these cases, bailers were used to purge and sample the wells. Field measurements of pH, specific conductivity, temperature and turbidity were collected as each well was purged, as specified in the Ohio EPA Technical Guidance Manual for Ground Water Investigations (Ohio EPA 2008). Sample fractions collected for analysis of RCRA metals were filtered in the field using 0.45 micron field filters.

Monitoring well locations MW2-1, MW2-2, MW4-7, MW5-1, MW5-2S, MW5-2D, MW5-4, MW10-1, and MW14-1 were sampled April 27th through April 29th, 2011. Monitoring wells MW1-6, MW6-1, and MW10-2 did not contain sufficient water for sampling. A second round of groundwater samples were collected June 2, 2011. Monitoring wells MW1-6, MW6-1, MW10-2, and MW14-1 did not contain sufficient water for sampling. Second round groundwater samples were analyzed for arsenic while three samples (MW4-7, MW5-2S, and MW10-1) were

also analyzed for VOCs. Groundwater samples were analyzed in accordance with Ohio VAP requirements as presented in Table 2 below.

Table 2
Groundwater Analytes

Monitoring Well Location	Analytical Parameter	
	Round 1	Round 2
MW2-1	VOC, PAH, RCRA metals, TPH GRO/DRO	Arsenic
MW2-2	VOC, PAH, RCRA metals, TPH GRO/DRO	Arsenic
MW4-7	VOC, PAH, RCRA metals, TPH GRO/DRO	VOCs and Arsenic
MW5-1	VOC, PAH, RCRA metals, TPH GRO/DRO	Arsenic
MW5-2S	VOC, PAH, RCRA metals, TPH GRO/DRO	VOCs and Arsenic
MW5-2D	VOC, PAH, RCRA metals, TPH GRO/DRO	Arsenic
MW5-4	VOC, PAH, RCRA metals, TPH GRO/DRO	Arsenic
MW10-1	VOC, PAH, RCRA metals, TPH GRO/DRO	VOCs and RCRA metals
MW10-2	Not Sampled	Not Sampled
MW14-1	VOC, PAH, RCRA metals, TPH GRO/DRO	Not sampled

2.1.5 Hydraulic Testing/Aquifer Determinations

VAP defines “groundwater” in paragraph (A) of rule 3745-300-01 of the Administrative Code. Volunteers also are permitted to assume saturated horizons encountered in the subsurface meet the definition as presented in the rule. Tetra Tech assumes that the water encountered beneath the Property during this investigation meets the Ohio VAP definition of groundwater.

To classify groundwater encountered beneath the Property, Tetra Tech conducted aquifer testing in accordance with paragraph (D) (9) of the VAP rule, using a sufficient number of properly constructed and developed wells. Specifically, wells were constructed with minimum 2-inch diameter casing with a minimum intake screen interval of 5-feet. VAP requires that the well be constructed in a minimum 6-inch diameter borehole for use in yield determinations.

Tetra Tech conducted pump tests at three monitoring well locations during this Phase II PA: MW4-7; MW5-2S; and MW5-2D. Well construction diagrams for these well locations and the others installed at the Property are provided as Appendix D. Well locations MW5-2S and MW5-2D represent a “nested pair”, meaning they monitor separate water bearing horizons at the same location. These wells were used to evaluate vertical hydraulic conductivity and interconnection of shallow groundwater horizons. Recovery data also was collected at location MW5-2D and was used to estimate hydraulic conductivity values at the Property.

In addition to the Property specific yield data developed from pump testing, published yield data obtained from the Ohio Department of Natural Resources (ODNR) well log for the supply well serving the Property and similar wells on adjacent properties were used for comparison to the shallower horizons encountered to determine groundwater classification at the Property and support groundwater determinations associated with the deep Cuyahoga Group Aquifer at the Property.

2.1.6 Surface Water Sampling

Tetra Tech collected two surface water samples from the Property storm water retention pond which is at the downstream end of the Property stormwater drainage system located in the southwest corner of the Property. Surface water samples were collected at the intake and outfall of the pond. Samples were obtained using a pole sampler and a sterile 1-liter amber bottle. These samples were taken for screening purposes only, as the storm water system at the Property is regulated under an existing NPDES permit. As a result, issues related to storm water discharge and the sediments in the surface drainage network up gradient of the discharge point fall under purview of the NPDES Permit. Therefore, contaminant concentrations in surface water and sediments were collected for informational purposes only as part of the due diligence for the Property and are not subject to VAP applicable standards. Storm water samples were analyzed for VOCs, PAHs, RCRA metals, and ethylene glycol.

2.1.7 Sediment Sampling

Eleven sediment samples were obtained throughout the Property from the storm water collection and conveyance system. Samples were collected from surficial drainage features located throughout the Property including one sample in the ditch along Beer Road on the downstream side of the storm water retention pond discharge. The sediment sample locations were inundated at the time of sample collection and available information indicates that the locations were all within perennial-flowing bodies of water that comprise the Property drainage network regulated under the NPDES permit. Samples were collected using a dedicated sterile plastic scoop. Sediment samples were analyzed for VOCs, PAH, PCBs, RCRA metals, ethylene glycol, and TPH DRO/GRO.

2.1.8 PCB Wipe Sampling

Ten wipe samples were collected from surfaces throughout the original Switch House in order to evaluate potential presence of PCBs related to past operations in this building. Wipe samples were collected by blotting an absorbent pad wetted with hexane over a cutout cardboard template in accordance with EPA guidance. The pads were then placed into jars with Teflon-lined lids and sent to the laboratory for PCB analysis.

2.1.9 Wood Block Floor Sampling

Seven composite samples wood block floor samples were collected from the seven area of the main plant discussed in Section 1.2.12. Tetra Tech developed composite samples by randomly selecting wood blocks and removing small chips from an area representative of the floor covering. Each of the composite samples was submitted to Test America to be analyzed for TCLP VOCs, TCLP metals, TCLP SVOCs, flashpoint and PCBs.

2.1.10 Other Sampling

A standing water sample was collected from the basement of the original Switch House in order to screen the media for PCBs. Electrical equipment historically used in this area represented the potential for the standing water to be impacted with PCBs.

2.1.11 Geophysical Surveys

On April 4-5, 2011 and May 12, 2011 GeoSearches Inc. (GeoSearches) conducted a GPR survey at the Property to identify subsurface features (utilities, etc.) prior to drilling at the Property and investigate the IA-5, the Soil Pile/Slope Fill Area. Soil boring locations were cleared for utilities and the area of the suspected former landfill (IA-5) was surveyed. GeoSearches ran three transects bisecting the width of the suspect area to develop profiles that can be used to characterize the nature of the fill.

On April 19, 2011 GeoSearches conducted a GPR survey to determine the concrete integrity in the “marriage station” area, the main oil sump located beneath the scrap conveyor in the basement of the main plant. The concrete surrounding the sump and lining the conveyor area leading to the baler house was surveyed for potential cracks and other evidence of weakness or heightened permeability.

On May 16, 2013 GeoSearches returned to the Property to conduct a GPR survey to determine the potential for subsurface anomalies in area of the demolition contractor boring in the South Field Lower Terrace Fill area. GeoSearches conducted a grid survey with the demolition contractor boring as a starting point for 68 data lines that were laid out at the Property at intervals of five feet.

2.1.12 Survey of Permanent Monitoring Wells

The horizontal position and the elevation of the top of casing of the 12 groundwater monitoring wells installed during the Phase II PA were determined by a survey completed by an Ohio Registered Surveyor (Shaffer, Johnston, Lichtenwalter & Associates, Inc. of Mansfield, Ohio) on

April 28, 2011. Horizontal position was determined to Ohio State Plane Coordinates (northing and easting accuracy of 0.1 feet) and the top of inner casing elevation was determined to an accuracy of 0.01 feet National Geodetic Vertical Datum (NGVD). Soil boring locations were documented by Tetra Tech personnel using a Trimble GeoXT Global Positioning System (GPS) unit with sub-meter accuracy.

2.2 Data Quality Objectives

Ohio VAP requires the development and implementation of data quality objectives consistent with U.S. EPA's "Guidance on Systemic Planning Using the Data Quality Objectives Process" according to their limitations and intended uses.

The objective of the Ohio VAP Phase II PA is to assess identified environmental conditions with the potential to impact future re-use of the facility in a light industrial setting. The result must demonstrate that the Property meets the applicable standards that need to be achieved to demonstrate compliance with VAP rules. The investigation will identify areas of the Property that do not meet applicable standards and, based on investigation findings, identify the feasibility and costs of cleaning up the Property to allow for redevelopment. Cleanup will be designed with the ultimate goal of meeting applicable Ohio VAP standards for light commercial/industrial use.

2.2.1 Problem Statement

The Phase II PA was specifically designed to address two issues:

1. Do portions of the Property contain COCs that exceed applicable VAP cleanup goals, and do data gaps exist such that additional data are required to fully delineate, define potentially complete pathways and exposures to receptors associated with the COCs?

2. For areas of the Property containing COCs exceeding VAP cleanup goals, what are appropriate and cost-effective options for fully delineating, cleaning up and/or eliminating pathways to potential receptors posed by the COCs such that the Property redevelopment can be accomplished?

The Phase II PA is intended to answer both questions through assessment and delineation of the conditions observed at the Property and by evaluating those findings relative to Ohio VAP standards and clean up goals to ensure that the path forward is protective of human health and the environment.

2.2.2 Conceptual Site Model (CSM)

One of the more effective methods used to present available information is the CSM. The CSM is developed with the assistance of appropriate disciplinary expertise from the project team. In this instance, the project team has developed a CSM that represents what has been learned through completing the Phase II PA and the Property Specific Risk Assessment (PSRA) processes. The CSM has also served to identify data gaps and areas that required additional investigation to achieve project goals as the project progressed.

2.2.3 Study Boundaries

The boundaries of the Phase II PA conform to the Property boundary associated with the Property known as “The Mansfield Stamping Plant.” The legal description and a survey plat of the Property are provided as Appendix E. The area of study includes the 266 acres contained within the Property boundaries as shown on Figure 2.

During the investigation, soil borings were advanced using continuous sampling techniques to allow for detailed stratigraphic and lithologic descriptions and detailed elevation data regarding water bearing horizons. The majority of soil borings were terminated at depths of less than 30 feet bgs. However, Tetra Tech installed several deep borings (50+ feet) to vertically delineate COCs, obtain hydrogeologic data for groundwater classification determinations, and to verify depth to bedrock beneath the Property.

2.2.4 Special Considerations

Specific methodologies in the form of Standard Operating Procedures (SOPs) that apply to this Phase II PA were provided in the SSWP/FSP (Appendix C). Laboratory analyses described in this assessment were conducted by Ohio EPA’s contract VAP Certified Laboratories; Test America Labs in North Canton, Ohio (VAP Certification Number: CL0024) and Microbac’s Ohio Valley Division in Marietta, Ohio (VAP Certification Number: CL0012). Laboratory QA procedures were conducted and documented in accordance with Ohio VAP requirements. The laboratory was not subcontracted to Tetra Tech; for this reason, the requirements of Ohio EPA's direct contract with Test America governed the conduct of laboratory analyses.

Tetra Tech coordinated with the laboratory on issues related to: sample transport and delivery, analytical methods and laboratory method detection limits (LMDL), correlation of LMDLs to Ohio VAP standards, and other issues that may impact data quality.

3.0 PHASE II ASSESSMENT FINDINGS

The following sections summarize Tetra Tech's findings as a result of the Phase II PA.

3.1 Regional Geology and Hydrogeology

Available information indicates that the uppermost natural subsurface materials in the Property vicinity include unconsolidated deposits of clay and silt with inter-bedded sands and gravels, deposited as glacial till and outwash. ODNR well logs indicate glacial till comprised of clay and inter-bedded sand and gravel horizons to depths of 70 to 120 feet bgs.

The ODNR Groundwater Resources Map for Richland County indicates that the unconsolidated glacial deposits in the area overlie Mississippian age inter-bedded sandstone and shale formations of the Cuyahoga Group. ODNR maps indicate in the immediate area of the Property the presence of a northwest to southeast trending buried valley incised in the bedrock. Available ODNR well logs suggest that within this buried valley the depth to bedrock may be greater than 200 feet bgs and is filled with thick clay overlying sand and gravel. The southwestern portion of the Property, south of the plant building, appears to overlie the northeast edge of this feature. ODNR resources indicate that the occurrence of groundwater in the unconsolidated materials is sporadic; however zones of "wet" sand and gravel are present within the clay in some areas.

ODNR reports yields of 10 to 25 gallons per minute (gpm) from residential supply wells completed in the Cuyahoga Group. Large diameter industrial and municipal supply wells with intakes below 200 feet in the Cuyahoga Group have achieved yields in excess of 200 gpm. As previously described the southwest portion of the Property is underlain by an ancestral drainage feature comprising of permeable sand and gravel deposits. Sand and gravel outwash layers within the "buried valley" deposit are reportedly capable of producing yields of 100 to 500 gpm at depths greater than 100 feet bgs.

3.2 Site-Specific Geology and Hydrogeology

The site-specific hydrogeologic investigation completed for the Phase II PA indicated conditions consistent with those reported by ODNR. Property geology and hydrogeology were characterized through a series of 82 soil borings; installation of 12 groundwater monitoring wells, hydraulic testing and measurement of groundwater elevations.

Geologic logs of the borings and monitoring well installation diagrams are included in Appendix D. The locations of two lines of Geologic section are provided on Figure 4. Geologic cross sections based on the data obtained from the borings are presented on Figures 5 and 6. The figures depict the higher permeability "sand and gravel lenses" in which shallow groundwater was detected. In accordance with Ohio VAP guidelines, these lenses in the upper unconsolidated water bearing unit are considered to be representative of one unit.

Figure 7 presents piezometric surface elevations. In general, shallow groundwater flow has two components from a "mound" in the area of the main plant on the upper terrace. Groundwater flows to the southeast and to the southwest, away from the mounded area. Site-wide

groundwater conditions were evaluated in accordance OAC 3745-300-07 and 10. Significant findings of the geologic and hydrogeologic investigations are discussed below.

General Site Geologic Characteristics

The Property is located in a mixed commercial, industrial, and agricultural area. The northern portion of the Property lies on a topographic high between approximately 1,390 and 1,400 feet above mean sea level (msl). To the south of the plant structure, the topography drops off steeply to a second lower, relatively flat terrace lying at elevations between approximately 1,360 and 1,370 feet above msl, approximately 30 to 40 feet lower than the northern portion of the Property. The "break" in the slope appears to roughly coincide with the reported northern boundary of an east-west trending buried bedrock valley reported by ODNR.

Much of the northern portion of the Property is under the structure or is paved. Fill materials, of varying thickness, underlie the paved areas at most locations. In some areas the fill materials consist of gravel sub-base below pavement; whereas in other areas the fill appeared to be native silty clay material that had been used to grade and level the surface. Fill material ranged in thickness from 0 to 12 feet, depending on the area. The area of borrowed fill south of the main plant increases in thickness to nearly 30 feet within the foot print of the feature. Areas where Property support activities had occurred, such as the Former WWTP area, former UST pits, and the soil pile area south of the plant building contained the greatest thickness of fill materials. Additionally, soils in the northeastern quarter of the Property appeared to have been more disturbed by plant activities than other areas of the Property.

Uppermost naturally occurring subsurface Property materials were found to consist primarily of unconsolidated deposits of dense brown-gray silty clay deposited as glacial till. Within these silty clays are thin, laterally and vertically discontinuous zones with varying amounts of inter-bedded layers of clayey sand and gravel. The observed presence of thin discontinuous clayey sand and gravel lenses within the till is consistent with local conditions reported in literature. At the Property, these zones were noted to occur at varying elevation horizons in different parts of the Property and were laterally discontinuous. In accordance with Ohio EPA Technical Guidance Compendium VA30007.09.010 ("Identification of Ground Water Zones"), these discontinuous zones within the till are considered as a single unit for purposes of groundwater classification (see below). No other coarse-grained materials or other hydrostratigraphic features indicative of greater permeability were observed within the upper (unconsolidated) zone at the Property.

The unconsolidated materials extend to at least 80 feet bgs on the Property, and possibly greater depths in the southern portion of the Property which overlies the buried valley. Samples retrieved from deep borings in IA-1 and IA-4 indicate that the boundary between the unconsolidated till and the underlying bedrock is gradational, with the till grading into a zone of mixed clay and weathered bedrock fragments just above the top of bedrock. The on-site production well log which is located approximately 10 feet north of the fire pump house indicates bedrock below the Property consists of inter-bedded sandstones and shales of the Mississippian Cuyahoga Group. The depth to bedrock in the northern (upper) portion of the Property appears to range from approximately 70 to 80 feet bgs, based on the former water supply well log and borings completed during the Phase II PA in IA-4. Due to the consistent nature of the subsurface materials encountered at the Property (thick layers of dense clay); low hydraulic conductivity of the materials, limited occurrence and vertical extent of saturated zones; and, absence of staining, odors, or elevated PID readings in most borings; and limited activities

that occurred in the southern part of the Property, determination of the full vertical thickness of the till in the southern portion of the Property was not relevant to the objectives of the Phase II PA and was not conducted. ODNR maps and available water well supply logs in the area indicated that the depth to bedrock in the southern portion of the Property could exceed 200 feet bgs.

General Site Hydrogeologic Characteristics

Hydrogeologic conditions encountered during the Phase II PA of the Property can generally be described as dense, unsaturated, low permeability silty clay with sporadic, laterally and vertically discontinuous inter-bedded saturated sandy and gravelly lenses. Saturated material was not encountered in the majority of the boring/monitoring well locations. The deepest saturated zone encountered in the borings completed at the Property was at approximately 52 feet bgs, and was found to overlie more dense unsaturated silty clay. Deep borings indicated that the unsaturated silty clay extends to depths of approximately 76 feet bgs where the top of the underlying Cuyahoga Group (shale and sandstone) occurs. The depth to water in the bedrock aquifer is reportedly greater than 140 feet bgs.

Ohio EPA Technical Guidance Compendium VA30007.09.010, "Identification of Ground Water Zones" indicates that hydraulic factors such as "flow direction, yield to wells, and hydraulic conductivity" be given the most weight in classification of groundwater at a site. The guidance also states that hydraulic interconnection among different horizons should be given added weight only if the interconnection is exceptionally strong and specifically, should consider:

- "whether a groundwater zone may contain isolated seams of dissimilar material that are not thick or extensive and do not serve as a preferential pathway off-property." EXAMPLES: Fine-grained materials (clays and clayey silts) with isolated pockets or lenses of coarser-grained material can be considered one groundwater zone if none of the pockets or lenses is a potential pathway for the groundwater to emanate from the Property. Whether seams are isolated can be determined from exploratory borings that are sufficient in number, depth, location, and sampling."

Based on this guidance, the zones of saturation encountered during the hydrogeologic investigation are considered to represent a single groundwater zone for purposes of groundwater classification under the Ohio VAP. This determination considers the following site-specific characteristics:

- The investigation provided a representative characterization of conditions at the Property. Hydrostratigraphy was defined through a series of soil borings; groundwater monitoring wells were installed at 12 of these locations.

- In the majority of borings completed at the Property during the Phase II PA, saturated materials were not encountered. Monitoring wells were installed at all locations where saturated, or potentially saturated materials were encountered while drilling. However, several of these monitoring wells subsequently did not yield water in sufficient quantities for sampling.

- At locations where saturated zones were encountered, the saturated layers were relatively thin and separated by interbedded unsaturated layers of dense silty clay.

- Hydraulic testing was completed at several locations (see Section 3.3). The results of this testing indicated relatively low yield, low hydraulic conductivity, and little evidence of hydraulic interconnection even among multiple saturated horizons at a single location.

- In general, where found, saturation was observed in zones of clayey sand and gravel inter-bedded within the silty clay till. These zones appear to be representative of at least multiple, separate, vertically and laterally isolated zones that (1) do not appear to be in hydraulic communication with each other and (2) do not appear to be significantly affected by recharge from the ground surface. Multiple rounds of water level measurements and well purging were conducted in the newly installed wells between April and June 2011. During this period, some wells were observed to recharge very quickly, while others purged dry and required weeks to recharge with only minor amounts of water. Also, the measured static water levels in some wells increased over the period, while others decreased or remained consistent within a few hundredths of a foot over the period. These observations indicate a lack of hydraulic communication among the zones monitored by the wells.

The following sections discuss the specific characteristics of various areas of the Property.

Northern Portion of Plant Area

This area includes most of the area of the "upper" plant terrace, including the plant building and adjacent areas to the east and west, northward to 4th Street, with the exception of the extreme southern end of the plant building. This comprises the greatest portion of the Property where industrial and support activities (materials and fuel storage, steam power generation, wastewater treatment, etc.) primarily occurred. Saturation was encountered at only two locations in this area. Saturation was present within clayey sand and clay fill materials at monitoring well location MW4-7 at relatively shallow depths (less than 5 feet bgs; approximate elevation 1395 feet above msl). This zone was found to overlie dense gray unsaturated silty clay at approximately 15 feet bgs (elevation 1385 feet above msl). Saturation was also encountered at monitoring well location MW6-1. This zone of saturation was encountered at approximately 20 feet bgs, and was found to overlie unsaturated silty clay at 25 feet bgs. Observations of water levels in these wells suggest that they represent two different isolated zones of saturation.

Other borings completed between, as well as immediately to the west, east, north, and south of these locations, did not encounter saturation. One deep boring IA4-4 (also named DB-1) was completed in IA-4 near the southeast corner of the plant building, and extended to refusal to at the top of weathered bedrock at 76 feet bgs. This depth appears to represent the depth to bedrock in this area of the Property. No saturated material was encountered in this boring.

A deep (bedrock) water supply well is reportedly located in the northeast portion of the Property near the former Fire Pump House and water tower. The well was previously used to supply water for the fire suppression system reservoir. The well has reportedly not been used since the early 1990s and has reportedly been capped. According to ODNR, the well was constructed in 1956 to a depth of 220 feet bgs in a "shale" aquifer. The ODNR well log indicates that static water level within the well is at 125 ft bgs. A copy of the ODNR well log for the production well is included in Appendix C. After a comprehensive historical document review, as well as an extensive and thorough search of the surrounding area of the reported well location on numerous occasions and after the structures had been demolished, the well could not be located as it appears to have already been abandoned.

TABLE 3
SUMMARY OF PIEZOMETRIC DATA AND MONITORING WELL DETAILS
MANSFIELD STAMPING PLANT

Well ID	Top of inner casing elevation (feet, msl)	Total depth (feet)	Elevation of Screened Interval (feet, msl)	DTW on 4/27/2011 (feet)	GW Elevation on 4/27/2011 (feet, msl)	DTW on 5/12/2011 (feet)	GW Elevation on 5/12/2011 (feet, msl)	DTW on 6/1/2011 (feet)	GW Elevation on 6/1/2011 (feet, msl)	Northing (feet)	Easting (feet)
MW1-6	1,396.79	54.00	1,342.79 to 1,352.79	DRY	NA	52.94	1,343.85	52.78	1,344.01	401525.18	1938675.33
MW2-1	1,397.27	58.32	1,339.95 to 1,349.95	42.29	1,355.98	42.15	1,356.12	42.05	1,356.22	401360.51	1939620.36
MW2-2	1,396.64	51.96	1,344.68 to 1,354.68	38.48	1,358.16	37.98	1,358.66	37.64	1,359.00	401369.67	1939900.07
MW4-7	1,400.82	17.45	1.383.37 to 1,39337	3.49	1,397.33	4.11	1,396.71	4.15	1,396.67	402496.33	1940478.11
MW5-1	1,365.99	28.69	1,337.30 to 1,347.30	11.81	1,354.18	12.02	1,353.97	12.05	1,353.94	401079.01	1939315.33
MW5-2S	1,369.07	17.09	1,351.98 to 1,361.98	3.01	1,366.06	3.71	1,365.36	3.75	1,365.32	401024.30	1939847.06
MW5-2D	1,369.12	32.27	1,336.85 to 1,346.85	12.10	1,357.02	12.37	1,356.75	12.40	1,356.72	401024.35	1939851.50
MW5-4	1,368.75	28.08	1,340.67 to 1,350.67	15.35	1,353.40	4.78	1,363.97	4.80	1,363.95	401036.76	1940102.65
MW6-1	1,401.05	32.11	1,368.94 to 1,378.94	30.71	1,370.34	31.34	1,369.71	31.60	1,369.45	402437.36	1940744.86
MW10-1	1,397.90	55.00	1,342.90 to 1,352.90	43.78	1,354.12	43.79	1,354.11	43.85	1,354.05	401423.53	1939175.95
MW10-2	1,397.69	14.95	1,382.74 to 1,392.74	14.10	1,383.59	12.67	1,385.02	11.40	1,386.29	401466.93	1939153.94
MW14-1	1,382.94	57.22	1,345.72 to 1,355.72	34.16	1,348.78	35.89	1,347.05	36.13	1,346.81	401232.55	1940946.78

Notes: GW – groundwater
msl – mean sea level
DTW – measured depth to water from top of inner casing
Northing and Easting based on Ohio State Plane Coordinate System

South End of Main Plant Area

This area includes the southern edge of the upper, elevated terrace that comprises the northern portion of the Property, and lies between the south end of the building and the slope. This area also includes adjacent portions of IA-1 to the west and IA-14 to the east. This line roughly coincides with the reported northern edge of the buried bedrock valley indicated on ODNR maps. Cross section A-A' (shown in Figure 5) summarizes subsurface features encountered in this area. Within the silty clay till in this area, between depths of approximately 40 to 50 feet bgs, several thin layers of saturated clayey sand and gravel were observed inter-bedded within the till at location MW 10-1. This horizon correlates to an approximate elevation of 1355 to 1365 feet above msl. As previously discussed, deep borings completed in the northern portion of the Property were dry to the top of bedrock, indicating this zone is limited in extent to the southern portion of the Property. This horizon was used as a target elevation for several other wells installed along the south end of the plant and was encountered at locations MW2-1 and MW22. Sand and gravel was also noted at locations MW1-6 and MW14-1 (Formerly MW9-1); however, well MW1-6 did not contain sufficient water to sample.

Groundwater is sporadically present at shallow depths at location MW10-2, at depths ranging from approximately 11 to 14 feet bgs; however, this well recharges extremely slowly and saturation was not encountered at this shallow horizon at any other well in this area. This shallow zone is separated from the aforementioned deeper zone encountered in well MW10-1 by approximately 30 feet of unsaturated clay. Well MW10-2 contains water sporadically and did not yield sufficient water for either sampling event (April 2011 and June 2011). It is possible that water in the shallow zone monitored by well MW10-2 is drainage from the sub-base of the overlying asphalt pavement into shallow fill around the building perimeter, as noted in previous studies completed at this Property.

South Field - Lower Terrace

This area includes the wells located in the vicinity of IA-5, on the lower terrace that comprises the southern half of the Property, south of the toe of the slope that separates this terrace from the upp\er part of the Property where the main plant area is located. This area lies approximately 25 to 30 feet lower in elevation than the main plant area. A saturated zone of thin clayey sand and gravel layers inter-bedded within the silty-clay was encountered at approximately 15 to 20 feet bgs in this area, which correlates to the same approximate elevation as the zone encountered at the south end of the main plant area at an approximate elevation of 1355 to 1365 feet above msl. This zone was encountered at locations MW5-1, MW5-2 and MW5-4. However, comparison of water levels in these monitoring wells does not indicate that these locations are all consistently monitoring a laterally continuous zone, as no consistent horizontal gradient or flow direction is discernible. Furthermore, at location MW5-2, an overlying thin saturated sand and gravel layer was encountered at approximately 12 feet bgs, and water levels in the completed well rose to 3.75 feet bgs, indicating that water in these saturated layers is under confined conditions at some locations. While there is potential for "leakage" from the confined layer in situations where an excavating operation overlies the confined unit, it is not expected that the excavation would be inundated and the volume of groundwater entering an excavation would be limited. Therefore, direct exposures (ingestion and dermal contact) will be negligible. Subsequent hydraulic testing indicated that the two zones at location MW5-2 are not in hydraulic communication with each other, further demonstrating the low permeability of the intervening clays. In general, the monitoring well network exhibits inconsistent temporal variations in static water levels from well to well. These factors indicate a low degree of hydraulic communication among the saturated zones monitored at the Property.

Boring logs associated with the soil borings located in the South Field Lower Terrace Fill area (IA-13) to address the issue identified by the demolition contractor revealed similar material. The logs indicate an interval of soil stained black with a solvent odor at depths below 2 feet bgs to as deep as 6 feet bgs. The material was observed to contain numerous small (1-2 cm diameter) disc-shaped metal scrap, as well as pieces of wood, plastic, and broken glass. The majority of this stained material was observed at depths from 4 to 6 feet bgs.

3.3 Hydraulic Testing

Tetra Tech conducted pump tests at three monitoring well locations during this Phase II PA: MW4-7; MW5-2S; and MW5-2D. Well construction diagrams are provided in Appendix C. Well locations MW5-2S and MW5-2D represent a "nested pair", meaning they monitor separate water bearing horizons at the same location. These wells were used to evaluate vertical hydraulic conductivity and interconnection of shallow groundwater horizons. Recovery data was collected at location MW5-2D and was used to estimate hydraulic conductivity values at the Property.

Tetra Tech conducted an 8-hour pump test at monitoring well location MW5-2S, representing the shallower of the saturated horizons encountered at this location. Based on the results of the test, well yield was calculated to be 0.26 gpm. Tetra Tech also conducted pump tests at MW5-2D and MW4-7, although both locations were pumped dry after about one hour of pumping. Based on those limited data, the horizons monitored by these two locations provided yields of 0.83 gpm at MW4-7 and 1.02 gpm at MW5-2D. Finally, Tetra Tech collected recovery data at the conclusion of pumping at MW5-2D. The recovery data indicates hydraulic conductivity (K) values in the range of 7.05×10^{-6} cm/sec. MW5-2D is screened at the same approximate elevation horizon monitored at wells MW1-6, MW10-1, MW2-1, MW2-2, MW5-1, MW5-4 and MW14-1 (formerly MW9-1). However, as previously discussed, lateral hydraulic communication at this horizon appears limited. Graphic representation of the recovery test analysis and well yield calculations are provided in Appendix F.

3.4 Identification and Evaluation of Chemicals of Concern (COCs)

The following subsections presents the rationale associated with the identification of COCs in each IA. Information gathered during the Phase I PA was used to develop the list of COCs for the Property. COCs were identified as those substances detected at concentrations that either (1) exceeded Ohio VAP or other applicable risk based standards for ingestion or direct contact or (2) were present at concentrations that could result in an unacceptable exposure to current or potential receptors based on appropriate modeling techniques for that pathway (i.e. soil or groundwater to indoor air). Lab analytical results are summarized in Analytical Tables 1 through 11 at the front of Appendix G and the chain-of-custody records are also presented in Appendix G.

In addition to comparison to applicable risk based standards, Tetra Tech completed a PSRA associated with the COCs identified at the Property. A copy of the PSRA is provided as Appendix H. Based on the risk and hazard results summarized in Section 7.1 of the PSRA, the following general conclusions may be drawn:

- Risks and hazards associated with the IA-2, IA-10, and IA-14 are less than or equal to receptor-specific target cumulative risks and hazards. Therefore, remediation at these IAs is not required.

- Risks and hazards associated with IA-5 are less than or equal to receptor-specific target cumulative risks and hazards with one exception. The total Hazard Index (HI) for construction/excavation workers was calculated as 2, which exceeds the target hazard of 1. This total HI is driven by potential exposure to trichloroethene (TCE) in trench air. However, TCE was detected in only 1 of 4 monitoring wells at IA-5. The HI for TCE (1.6) based on the maximum detected concentration of TCE from monitoring well MW5-2S (11 µg/L) was reduced to 1.1 (and the total HI reduced from 1.6 to 1.2) when the TCE concentration (7.7 µg/L) measured in a second sample collected two months later from MW5-2S is used. The revised total HI of 1.2 reduces to 1 at one significant figure.

- Risks and hazards at IA-4 exceed the target cumulative risk and hazard for commercial/industrial workers and for construction/excavation workers. These risks and hazards are driven by potential exposure to carcinogenic PAHs in soil. Excavation of PAH-contaminated soils at IA-4 will be required.

Potential off-property risks related to COC exposures from the Property are less than a target cumulative risk of 1E-05 and a target cumulative hazard of 1 (OAC 3745-300-09 (B)(1)(a) and 3745-300-09 (B) (2), respectively) based on (1) insubstantial exposures (inhalation of particulates and vapors) and (2) measured and modeled groundwater concentrations at the Property boundaries less than 1E-05. As described in the PSRA (Appendix H), Tetra Tech's assessment included an evaluation of the Phase II analytical results with regard to the potential for vapor intrusion (VI). At locations where potential COCs for the VI pathway were detected in soil or groundwater were greater than 100 feet from existing structures, there currently appears to be no complete VI exposure pathway at the Property. For this reason, VI concerns at this Property are limited to future exposure scenarios involving the possibility of new buildings being constructed above areas of groundwater or soil contamination and subsequently occupied by industrial or commercial workers on a routine basis.

Tetra Tech modeled potential indoor air concentrations of the COCs detected in both (1) soil and (2) groundwater using U.S. EPA's Johnson and Ettinger (J&E) model and also employed a comparison of estimated indoor air concentrations from groundwater using EPA'S GW-ADV-FEB04 and VISL spreadsheet models. The GW.-ADV-Feb04.xls spreadsheets (based on the Johnson and Ettinger models) were used to estimate indoor air EPCs from groundwater.

EPA's Vapor Intrusion Screening Level (VISL) Calculator (EPA 2014c) was used to provide a second set of comparative indoor air EPCs, risks, and hazards based on the potential migration of volatile contaminants from groundwater to indoor air. (EPA's VISL Calculator does not address the soil to indoor air migration pathway). Inputs to EPA's VISL Calculator are more limited than the Johnson and Ettinger model-based spreadsheets. The only required inputs are: (1) receptor type (only commercial / industrial workers were evaluated via the off-property vapor intrusion pathway), (2) groundwater temperature (used the same temperature, 16o C as used in EPA's GW-ADV-Feb04.xls spreadsheet and (3) groundwater concentration (used the same groundwater concentrations as used for inputs to EPA's GW-ADV-Feb04.xls). It should be noted that some chemicals evaluated in EPA's GW-ADV-Feb04.xls spreadsheet are not included in EPA's VISL Calculator.

Primarily, the absent chemicals are PAHs with limited volatility. Data was evaluated in two model runs. The first using the default inputs in accordance with Ohio VAP Guidelines and a second model run using site-specific data collected and analyzed as required by Ohio EPA. Supporting information related to the J&E Model is provided in Appendix F. Input values recommended in Ohio EPA (2010) were used in the first run. The J&E default value of 0.002

for fraction of organic carbon (foc) was used as a highly conservative (i.e. worst case) value, as the default value is based on sandy soils, whereas soils at the Property are actually predominantly dense silty clays.

Tetra Tech used well- and boring-specific information for soil type and depth to water. This resulted in additional conservative assumptions. Specifically, in instances where confined conditions are present and groundwater levels in monitoring wells are significantly above the depth at which water was originally encountered in the borings (MW5-2S, for example), the current depth to water in the well was used for the input value, rather than the depth to the zone which actually appears to be the source of the water. Whenever possible, Tetra Tech assumed a basement (200 cm below grade). However, in some cases, the contamination detected was too shallow [TCE in groundwater at MW5-2S] for the model to accept a 200 cm input depth; in such cases Tetra Tech assumed that a building would be constructed as slab-on-grade in these areas.

Tetra Tech used Ohio EPA recommended unit risk factor (URF) and reference concentration (RfC) values when available. If Ohio EPA values were not available, then Tetra Tech used U.S. EPA recommended values. Because the model calculates risks and hazards using U.S. EPA values, Tetra Tech recalculated the modeled indoor air concentrations using the Ohio EPA toxicity factors where such factors were available.

Tetra Tech conducted groundwater modeling using data from COCs detected in site groundwater. The objectives of modeling were to (1) simulate the migration of COCs from the hypothetical source area to the down gradient off-site receptors; (2) estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and (3) compare site-wide groundwater quality to simulated maximum concentrations of COCs at the off-site receptor locations to the water quality standards. Model input parameters were selected that would result in the conservative model predictions (reasonable worst-case COC concentrations at receptor locations).

Tetra Tech used the model code BIOSCREEN Version 1.4 to simulate migration of arsenic in groundwater. The model code BIOCHLOR Version 2.2 was used to simulate the migration of TCE in groundwater. Further rationale for selecting these model codes is provided in the Groundwater Modeling Report provided as Appendix I.

The model code BIOSCREEN Version 1.4 (EPA 1996) is based on the Domenico analytical solution for the advective-dispersive solute transport equation (Domenico 1987), and it has the ability to simulate advection, dispersion, and retardation due to sorption or degradation (decay). BIOSCREEN includes different model types, including solute transport without decay. Therefore, the application of this model code to simulate the migration of arsenic in groundwater is appropriate.

The BIOCHLOR model code (Aziz and others 2002) uses an analytical advective-dispersive transport module with sequential first-order decay to simulate the in situ biotransformation of chlorinated ethenes in a single zone or multiple reaction zones. Both BIOSCREEN and BIOCHLOR are EPA-approved screening level models that are routinely used by various regulatory agencies and are in the public domain.

3.4.1 General

As required by OAC 3745-300-07, the volunteer must identify the COCs in the IAs, evaluate IAs, and sample the environmental media. Based on the Phase I PA, the following IAs and suspected COCs were identified:

Identified Area 1 (a, b, c) – Snow Staging/Rack Wash Area
The following COCs were identified for IA-1: VOCs, PAHs, PCBs, RCRA metals, TPHs including GRO and DRO and ethylene glycol.

Identified Area 2 – Former UST Farm
The following COCs were identified for IA-2: VOCs, PAHs, and TPH DRO/GRO.

Identified Area 3 – Missing/Misidentified USTs
The following COCs were identified for IA-3 in the event AST/UST locations were determined: VOCs, TPH DRO/GRO.

Identified Area 4 – Former WWTP
The following COCs were identified for IA-4: VOCs, PAHs, PCBs, RCRA metals, and TPH GRO/DRO.

Identified Area 5 – Artificial Fill/Slope Area
The following COCs were identified for IA-5: VOCs, PAHs, PCBs, and RCRA metals.

Identified Area 6 – Coal Storage Area
The following COCs were identified for IA-6: PAHs, PCBs, RCRA metals, and TPH GRO/DRO.

Identified Area 7 – Original Switch House
The following COCs were identified for IA-7: PCB wipe samples and PCB water analysis.

Identified Area 8 – Stained Flooring/Sumps/Floor Drains
The following COCs were identified for IA-8: The “marriage station” sump in the basement was inspected using GPR. VOCs, PAHs, PCBs, RCRA Metals, TPH DRO/GRO.

Identified Area 9 – Existing WWTP
No evidence of a release or potential release was identified in this IA. This IA was resolved without need for Phase II Activities.

Identified Area 10 – Hazardous Waste Storage Area
The following COCs were identified for IA-10: VOC, PAH, PCB, and RCRA metals.

Identified Areas 11 and 12 Ohio EPA Issues – ACBMs/Wood Block Flooring

COCs identified for the out buildings at the Property included ACBMs. Several of the out buildings are considered possible candidates for demolition. As a result, Ohio EPA requested that Tetra Tech review available data for out buildings that resulted from previously completed ACBM Inspections. Tetra Tech’s scope was limited to identifying the material available, cataloging the material, identifying data gaps, and presenting a summary in this Phase II PA.

Wood block flooring observed in several of the manufacturing areas in the main plant represented a concern as the material is known to absorb oils and other substances typically used in manufacturing into the pore space in the wood block. The COCs associated with the wood block flooring material are TCLP VOCs, TCLP metals, TCLP SVOCs, flashpoint and PCBs.

These IAs were resolved in accordance with applicable regulatory programs. No evidence of a release or potential release was identified in association with these IAs. The IAs were resolved without need for Phase II Activities.

Identified Area 13 – South Field Lower Terrace Fill
The following COCs were identified for IA-13: VOCs.

Identified Area 14 – Eastern Raw Material Storage Area
The following COCs were identified for IA-14: VOCs, PAHs, PCBs, RCRA Metals, TPH DRO/GRO.

Potentially affected media include shallow soil, subsurface soil, surface water, sediment and shallow groundwater. Sample selection was biased towards the areas where the highest concentrations of COCs were expected to be found based on the results of the Phase I PA.

3.4.2 COCs in Soil

Soil samples submitted to the laboratory for analysis were primarily from soil borings and were from intervals between 0 and 32 feet bgs. Samples were selected based on visual observations (staining), knowledge of the IA, and PID readings. At soil borings where staining was observed in subsurface materials, a minimum of two samples were collected and submitted to the laboratory – one from the area of staining, and one directly below the staining.

One additional sample (SD-13) was originally collected as a "sediment" sample from a drainage ditch located adjacent to IA-4 in the eastern portion of the Property. This ditch is a component of the Property surface water drainage network regulated under the purview of the NPDES permit. However, observations of the water level in this ditch at the time of sampling indicate that location SD-13 may not be perennially inundated and thus consideration of sample SD-13 as a soil sample potentially subject to VAP requirements may be appropriate. For this reason, the data for sample SD-13 was subjected to the same screening comparisons as the other soil data collected at the Property to determine COCs.

Soil analytical results were compared to the revised 2014 VAP Soil GDCS for Commercial/Industrial Workers and for Construction/Excavation Workers. Samples where contaminants posing a potential VI concern, based on comparison to those listed in Ohio EPA's Vapor Intrusion Monitoring Guidance (Ohio EPA, 2010) were detected were also subjected to modeling to evaluate the potential for VI concerns, using the J&E model as recommended in Ohio EPA 2010.

COCs Related to Generic Direct Contact Standards

Soil analytical results from the 0 – 2.5’ and 2.5 - 5’ bgs intervals of soil boring IA4-3 exceeded the revised 2014 VAP Commercial/Industrial Direct Contact Standard for Soil for the following analytes: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd) pyrene. In addition, the sample exceeded the

Excavation/Construction Direct Contact for Soil Standard for benzo(a)pyrene. Samples submitted from the remaining borings had results below the VAP standard.

Results from the two subsequent soil sampling events in IA-4 intended to delineate the shallow soil exceedances indicated additional detail regarding the portion of the IA in which the exceedances were detected. Results of the additional sampling are provided below.

- Borings IA4-11 through IA4-30 were placed in December, 2011. Results indicated exceedances of the VAP Commercial/Industrial Soil Direct Contact Standards for the following analytes: benzo(a)anthracene (IA4-12, IA4-17, and IA4-18), benzo(a)pyrene (IA4-12, IA4-13, IA4-17, IA4-18, and IA4-30), benzo(b)fluoranthene (IA4-12 and IA4-17), and dibenz(a,h)anthracene (IA4-12, IA4-17, and IA4-18).

- Borings IA4-31 through IA4-38 were placed in November, 2012. Results indicated exceedances of the VAP Commercial/Industrial Soil Direct Contact Standards for the following analytes: benzo(a)anthracene (IA4-31), benzo(a)pyrene (IA4-31 and IA4-37), dibenz(a,h)anthracene (IA4-31), and indeno(1,2,3-cd)pyrene (IA4-31). In addition, results for benzo(a)pyrene exceeded the Excavation/Construction Direct Contact for soil standard in IA4-31.

Results for soil sample SD-13 indicated no exceedances of VAP direct contact standards for commercial/industrial workers or construction/excavation activities.

Results for soil samples collected in IA-13 revealed VOCs (acetone, methylene chloride) in excess of the LMDL. Laboratory results indicate that COCs were not detected in excess of the VAP Direct Contact Standards for Commercial/Industrial and Excavation/Construction standards in IA-13.

Soil COCs Related to Vapor Intrusion Pathway

Based on the first J&E model run on soil using default Property parameters, the only significant risks and hazards were associated with naphthalene at boring IA4-3. The VI risk for naphthalene at this location was calculated at 5.3E-05 and the hazard index was 1.5. In both cases, the exceedances were relatively low. Based on data from surrounding borings, the presence of naphthalene at IA4-3 appears to be relatively localized. However, based on the modeled results indicating a slight potential exceedance of acceptable risk levels for a future structure built on this location at the Property, naphthalene is a COC with regard to the VI pathway. Tetra Tech returned to the Property to collect site-specific data for use as J&E model inputs in accordance with Ohio VAP Guidance. Site-specific values were determined following ASTM requirements for the following parameters: soil bulk density, total porosity, water-filled porosity, and fraction organic carbon. Tetra Tech used the same analytical data from three borings installed at the Property (IA4-31, IA4-34, and IA4-36). These geotechnical parameters were reported to Tetra Tech and copies are provided in Appendix J.

The naphthalene risks and hazards associated with boring IA4-3 were recalculated based on J&E modeling conducted using the average parameter values collected from IA4-31, IA4-34, and IA4-36 (site specific values). The VI risk for naphthalene at boring IA4-3 was reduced to 8.8E06 and the hazard index was reduced to 0.24. The revised risk is less than 1E-05, the Ohio EPA Industrial Target Risk (TR) and the revised hazard index is less than 1. Summing the revised naphthalene risk and hazard for boring IA4-3 with the remaining default-based (and, therefore, more conservative) risks and hazards for the remaining analytes resulted in a revised

total risk of 8.9E-06 (less than the Ohio EPA Industrial TR) and a revised total hazard of 0.36 (less than 1). Therefore, upon incorporating site-specific geologic/hydrogeologic information into the J&E modeling, Tetra Tech determined that the soil and groundwater contamination at the Property is not associated with any significant VI risks or hazards.

Results for the laboratory analysis of soil samples collected during the Phase II PA for all IAs are summarized in Analytical Tables 1, 2, and 3 at the front of Appendix G and copies of the laboratory analytical reports are presented Appendix F. Sample locations yielding results for COCs in excess of generic direct contact standards are illustrated on Figure 8.

3.4.3 COCs in Groundwater

Groundwater grab samples from soil borings and from the monitoring wells were sent to the laboratory for analysis. Groundwater grab samples from soil borings were obtained using a bailer prior to the soil boring being backfilled with bentonite. These samples were not analyzed for metals due to the amount of suspended sediment and high turbidity in the samples. The Ohio VAP requires that groundwater comparisons be based on data from monitoring wells of known construction and integrity meeting Ohio EPA technical requirements; thus, data for groundwater samples from open soil borings were not used to determine groundwater COCs. Rather, the objective of these samples was to provide screening data to assist in the selection of locations and parameters for groundwater monitoring via the network of permanent monitoring wells.

Two rounds of groundwater samples were collected from the Property permanent monitoring well network in April and June 2011, respectively. Groundwater samples submitted for RCRA metals were field filtered prior to submittal to the laboratory. Field parameters were measured and recorded in the field. Field data documentation is provided in Appendix K.

Figure 7 indicates the piezometric elevations in the monitoring wells on June 1, 2011 and all Property piezometric data are summarized in Table 3 below. While these zones appear to have little or no hydraulic communication, Tetra Tech has considered them one single hydrographic unit as required under Ohio VAP. Figure 7 presents piezometric contours based on the elevations measured in shallow monitoring wells.

Results of groundwater sample collected from the VAP-compliant monitoring wells were compared to the Revised 2014 Ohio VAP Generic UPUS. Tetra Tech conducted groundwater modeling using the laboratory data to:

- Simulate the migration of COCs from the hypothetical source area to down gradient, off-site receptors.
- Estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and,
- Compare simulated maximum concentrations of COCs at the off-site receptor locations to the VAP standards.

Samples where contaminants posing a potential VI concern, based on comparison to those listed in Ohio EPA's Vapor Intrusion Monitoring Guidance (Ohio EPA 2010) were also subjected to modeling to evaluate the potential for VI concerns, using the J&E model as recommended in Ohio EPA 2010.

Groundwater COCs related to Ohio VAP Unrestricted Potable Use Standards

Analytical data from the groundwater samples indicate that samples from one groundwater well exceeded revised 2014 VAP UPUS for TCE, samples from six groundwater wells exceeded VAP UPUS for arsenic, and one groundwater sample exceeded the VAP standard for selenium. Analytes that exceeded the revised 2014 VAP Generic UPUS are as follows:

1. TCE exceeded the VAP UPUS in a groundwater sample submitted from monitoring well MW5-2S. The Ohio VAP Generic UPUS for TCE is 0.005 mg/L. Laboratory results for the sample collected at monitoring well location MW5-2S indicate a concentration of 0.011 mg/L and 0.0076 mg/L for samples collected in April 2011 and June 2011, respectively.

2. Arsenic exceeded the VAP UPUS in groundwater samples from the following monitoring wells: MW2-1, MW2-2, MW5-1, MW5-2S, MW5-2D and MW5-4. The Ohio VAP Generic UPUS for (inorganic) arsenic is 0.01 mg/L; concentrations exceeding the standard ranged from 0.0112 to 0.0465 mg/L. The arsenic concentration (0.012 mg/L) in the field duplicate of sample MW2-2 also exceeded the VAP UPUS; however, the concentration in the original sample did not. The VAP Generic UPUS for selenium (0.05 mg/L) was exceeded in the sample collected at MW10-1 with a concentration of 0.105 mg/L

Monitoring well locations with samples yielding COCs in excess of VAP UPUS are illustrated in Figure 9.

Groundwater COCs related to Ingestion, Direct Contact, and Inhalation Pathways

Groundwater at the Property has been determined to be “Class B”. Therefore, potable groundwater use (ingestion and dermal contact, as well as inhalation of volatiles released from potable groundwater use [e.g., showering] on site is considered incomplete; hence, there are no on-site receptors at or in the direction of groundwater flow (see 3745-300-07(F)(7)(d) and 3745-300-10(B)(2)(c)(i) and Ohio EPA [2009]). Groundwater modeling was conducted at the Property where COCs have been detected at concentrations exceeding their respective VAP UPUS values to the boundaries of the Property. Groundwater modeling also was used to evaluate the potential impact to site-wide groundwater quality as a result of migration of COCs. The modeling results show that all modeled concentrations at the boundaries of the Property are less than their respective VAP UPUS.

To satisfy the requirements of 3745-300-07, Tetra Tech completed a PSRA. The risk assessment was completed in accordance with Ohio EPA VAP property-specific risk assessment procedures (OAC 3745-300-09). A property-specific risk assessment is also required at the Property to evaluate the indoor air pathway in portions of the Property that overlie or are located adjacent to groundwater containing VOCs at concentrations greater than Vapor Intrusion Screening Levels (VISL), a pathway for which there are no generic standards (OAC 3745-300-09(A)(3)(a)).

The risk assessment also addresses the requirement to evaluate the cumulative cancer risk to off-property receptors under an industrial site remedy (OAC 3745-300-9(B)(1)(b)(i)).

In addition to evaluating potential human exposures to contaminants present in soil and groundwater at these IAs, the scope of the revised PSRA also includes an evaluation of potential off-property, but potentially Property-related human health and ecological exposures.

As noted in Section 1.3, storm water discharge from the Subject Property is covered by NPDES permit 21S00045*GD. Contaminant concentrations in surface water and on-property sediments were collected for informational purposes only as part of the due diligence for the Subject Property and are not subject to any VAP applicable standards. However, potential human health and ecological exposures to potentially Property-related chemical concentrations in a single off-property sediment sample (SD12-LAN-0411) collected in the Beer Road Ditch beyond the Property's NPDES-permitted discharge point were evaluated.

As discussed in Section 3.4.4 below, the COCs detected in sediment samples within the Beer Road ditch are likely to have originated from a spill occurring at 815 North Beer Road. A 1990 Ohio EPA Pollution Incident Report contains correspondence between the GM plant manager and the Ohio EPA discussing the source of an oil and grease exceedance detected during NPDES permit monitoring. Ohio EPA and GM personnel investigating the exceedance observed a visible petroleum sheen on the surface of the water in the ditch along Beer Road. Visual tracking of the petroleum led them upstream to the former Bender & Louden Trucking Terminal (815 North Beer Road) where the contamination apparently originated.

Groundwater COCs related to Vapor Intrusion Pathway

The results of the VI modeling indicated no significant risks (>1E-05 Ohio EPA Industrial TR) or hazards (>1) for any individual of the contaminants detected in the groundwater samples with one exception. The total HI for construction/excavation workers in IA-5 was calculated as 2, which exceeds the target hazard of 1. This total HI is driven by potential exposure to TCE in trench air. However, TCE was detected in only 1 of 4 monitoring wells at IA-5. The HI for TCE (1.6) based on the maximum detected concentration of TCE from monitoring well MW5-2S (11 µg/L) was reduced to 1.1 (and the total HI reduced from 1.6 to 1.2) when the TCE concentration (7.7 µg/L) measured in a second sample collected two months later from MW5-2S is used. The revised total HI of 1.2 reduces to 1 at one significant figure. Therefore, the hazard for construction/excavation workers at IA-5 is judged to be only marginally significant and may be insignificant.

Analytical results of monitoring well groundwater samples are presented in Analytical Tables 4 and 5 at the front of Appendix G.

3.4.4 COCs in Sediment and Surface Water

As previously discussed, the sediment and surface water samples were collected from the Property stormwater drainage system, which is regulated under an active NPDES permit. All surface water on the Property drain to the drainage network with minor exceptions to the east.

One of the sediment samples (SD-13) was collected from a ditch adjacent to IA-4 that contained a minimal amount of water at the time and thus may not be perennial inundated, and was evaluated as a soil sample through comparison to Ohio VAP generic direct contact standards for commercial/industrial and construction/excavation scenarios as revised in August 2014. No exceedances of these standards were detected in this sample and thus, no COCs were identified at location SD-13.

The remaining 12 sediment samples, as well as the two surface water samples, collected during the Phase II PA were from perennially inundated segments of the Property storm water collection and conveyance system which is regulated under an active NPDES permit. For this

reason, any compounds present in the sediments or surface water are not COCs under the purview of the Ohio VAP. However, the sediment sample and surface water sample results are presented for informational purposes to provide a general indicator regarding potential environmental impacts to the Property.

Samples were analyzed for VOC (all locations), PAH (all locations), RCRA metals (five locations), PCBs (three locations), TPH (one location), and ethylene glycol (eight locations). Two sediment samples, SD-02 and SD-04, collected in the drainage ditch outside the west fence and adjacent to Beer Road showed concentrations of benzo(a)pyrene of 10 mg/kg and 17 mg/kg, respectively, that are greater than the Ohio VAP Generic Soil Direct Contact Standard for commercial/industrial scenario of 5.8 mg/kg but less than the Ohio VAP Generic Soil Direct Contact Standard for Construction/Excavation scenario of 120 mg/kg. As identified in the Phase I ESA report (Tetra Tech 2011), documents provided by the Ohio EPA indicated a spill of petroleum originating from 815 North Beer Road (adjacent to the Property's western border). The 1990 Ohio EPA Pollution Incident Report contains correspondence between the GM plant manager and the Ohio EPA discussing the source of oil and grease detected in the storm water discharge during sampling on October 8 and 30, 1990. During that time period, no spills were reported on the Property and the floating baffle, brill skimmer, and underflow weir were all in place and operating properly in the storm water pond. Two ditches flowing onto the Property (Beer Road and State Route 309 ditches) were inspected on November 13, 1990 to determine if surface water runoff from adjacent properties may have caused the contamination. A visible sheen was observed on the surface of the water in the ditch along Beer Road and a visual trial of the sheen led upstream to the former Bender & Louden Trucking Terminal (815 North Beer Road) where the contamination apparently originated. This facility was also once a site of underground diesel storage tanks. Absorbent socks were placed where the ditches along Beer Road and State Route 309 flow onto the Property but the sock along Beer Road had become tangled allowing contaminants (observed as visible oil sheen) to enter the Property, pass through a portion of the drainage network, and exit the property through the permitted outfall.

The sediment samples SD-02 and SD-04 were located in the drainage ditch adjacent to Beer Road topographically down-gradient from the alleged spill location. Other than samples SD-02 and SD-04, there were no exceedances of applicable standards in the sediment samples. This data supports the 1990 release at 815 Beer Road as the probably source of the COCs in Beer Road Ditch. No elevated COC concentrations were detected at sediment sample location SD-1, upstream of 815 Beer Road. Sample locations SD-02 and SD-04 demonstrate elevated COC concentrations and correlate to the locations sited in the Ohio EPA Incident Report as the two ditches connected to the Property drainage network that were impacted by the release. Background information regarding the release, including the Ohio EPA Incident Report and an analysis of COC detections in sediment samples at the site are included as Appendix L.

Locations sampled for RCRA metals were then compared against the Ohio EPA Sediment Reference Values for the Erie-Ontario Lake Plain (EOLP). The sediment reference values are considerably lower than the VAP standards; as such, the EOLP reference value for silver (0.43 mg/kg) is lower than the laboratory method detection limit (LMDL) (0.91 – 1.5 mg/kg). Although samples for silver were found to be non-detect, the LMDL exceeded the EOLP sediment reference value, but remain well below the Ohio VAP sediment GDCS. No additional analytes were detected above their respective EOLP background sediment reference value.

Two sediments samples, SD-07 and SD-08, and soil sample SD-13 were analyzed for PCBs and none were detected. Sediment sample locations yielding analytical results in excess of applicable standards are illustrated in Figure 10.

Two surface water samples were collected from the stormwater retention pond at the downstream end of the stormwater conveyance system. Benzo(a)fluoranthene and fluoranthene were detected in one of these samples (SW-02). No VAP standards were exceeded in the two surface water samples. The sediment sample analytical results are shown in Tables 6 and 7, respectively, and the surface water sample analytical results are shown in Analytical Tables 8 and 9, respectively, at the front of Appendix G.

3.4.5 PCB Wipe Sampling

PCB wipe sampling was conducted at the original Switch House. A total of ten wipe samples and one blank was submitted to the laboratory for analysis; sample results are non-detect for PCBs. No PCB compounds greater than the detectable limit of 0.004 mg/100 square centimeters were detected in the 10 wipe samples collected at the Property. The wipe sample analytical results are shown in Table 10 at the front of Appendix G.

3.4.6 Wood Floor Sampling

At Ohio EPA's request, Tetra Tech collected samples of wood block flooring from throughout the manufacturing area of the main plant for waste characterization analysis. The samples were sent to Test America for TCLP VOCs, Metals, and SVOCs analyses as well as flashpoint and PCB analyses. The laboratory results indicated that the wood block flooring is not considered hazardous waste as defined by RCRA. The wood block flooring analytical results are shown in Table 11 at the front of Appendix G. This material has been removed and disposed properly in accordance with applicable regulatory requirements. This IA has been resolved.

3.4.7 Other Samples

One water sample was collected from the former flooded basement of the original Switch House. No contaminants indicative of impacts from the Property activities were detected in this sample. As a result, this IA has been resolved. The analytical results for this sample, SW01-SWH-0411, is shown in Tables 8 and 9 at the front of Appendix G.

3.4.8 DQOs

The Phase II PA has satisfied the DQOs established for the project by addressing two issues:

1. Analytical results indicated that portions of the Property contain COCs that exceed applicable VAP cleanup goals. No data gaps exist such that additional data are required to fully delineate and define potentially complete pathways and exposures to receptors associated with the COCs.

2. The data has been used to determine VAP cleanup goals in areas where GDCS have been exceeded in accordance with OAC 3745-300-07. The data was appropriate for determination of cost-effective options for fully delineating, cleaning up and/or eliminating pathways to potential receptors posed by the COCs such that the Property redevelopment can be accomplished.

3.5 Conceptual Site Model

Tetra Tech's CSM has been developed in accordance with the requirements of OAC 3745-300-07 in order to produce sound, reliable predications regarding current and future conditions at the

Property. The CSM incorporates the findings of the subsurface investigation with observations and historical information associated with surface features, and with potential receptors to identified contamination into one illustrative model of the conditions impacting the Property. The CSM also is used to support the evaluation of pathway completion and to present the rationale associated with decisions impacting future use of the Property.

The CSM links potential or actual contaminant releases to potential human and ecological exposures. As discussed in the PSRA, future land use is expected to be commercial /industrial. In addition to potential exposures by commercial/industrial workers, the risk assessment also considers potential exposures by workers involved in construction and excavation activities. Potential residential development of the Property will be prohibited using institutional controls, therefore, the risk assessment does not quantitatively evaluate potential residential exposures. Members of the general public may be exposed off-property to a limited extent via inhalation of ambient air, potable groundwater use, and inhalation of indoor air (from groundwater). In addition, members of the general public engaged in recreational activities (referred to as recreationalists) off-property in Beer Road Ditch may be exposed to sediment via incidental ingestion and dermal contact. As discussed in the PSRA, no exceedances of residential soil direct contact GNS values were observed in the single sediment sample from Beer Road Ditch; therefore, potential exposure by human receptors to sediment in Beer Road Ditch was not evaluated further. Finally, ecological receptors (including, but not limited to, benthic invertebrates, amphibians, birds, and mammals) may be exposed to sediment in Beer Road Ditch.

Figure 8 shows the CSM, illustrating potential exposure pathways for future commercial/ industrial and construction/excavation workers. Specifically, Figure 8 identifies (1) potential contaminant sources, (2) potential receptors and exposure pathways, and (3) exposure scenarios. These three elements are discussed in Sections 3.2.1 through 3.2.3 of the PSRA included as Appendix H.

3.6 Exposure Pathway Evaluation

The CSM provides the best illustration of potential and completed exposure pathways associated with COCs detected at the Property. The pathway completeness determination was conducted in accordance with OAC 3745-300-07(E) (6). Identification and evaluation of potential future receptors at the Property is based primarily on its intended future commercial/industrial use. Potential receptors and exposure pathways identified with this assumed future land use are discussed below.

3.6.1 Potential Receptors

Human exposures at the Property are expected to occur almost exclusively as a result of work-related activities. Receptors are expected to include commercial/industrial workers employed at future commercial/industrial operations located at the Property and construction/excavation workers hired as needed to perform activities such as utility installation and repair. Members of the general public and living off-property may also be exposed to Property-related contaminants released to groundwater, ambient air, and indoor air (from groundwater).

3.6.2 Exposure Pathways

Receptors are expected to be exposed to COCs in soil and groundwater at the Property through a variety of exposure pathways as shown in the CSM (see Figure 8). The potentially complete exposure pathways evaluated in the risk assessment include the following:

- Incidental ingestion of, direct contact with, and inhalation of fugitive dusts and volatile contaminants from surface and subsurface soil (Note: commercial/industrial workers are expected to be exposed to subsurface soil only if intrusive construction/excavation activities result in subsurface soil [to a depth of 10 feet bgs] being brought to the surface and mixed with surface soil)

- Inhalation of VOCs from groundwater in a construction trench (construction/excavation workers only). (Note: the depth to groundwater at the Property is ≥ 12 feet bgs. Since the POC for construction/excavation activities is 10 feet bgs, excavations are not expected to intersect the water table, therefore, groundwater is not expected to enter construction/excavation trenches directly. Consequently, direct contact exposures to groundwater for the construction/excavation scenario [ingestion and dermal contact] will not occur).

- Inhalation of indoor air (commercial/industrial workers only). It should be noted that because groundwater encountered in the glacial till unit at the Property is classified as "Class B", potable groundwater use (ingestion and dermal contact, as well as inhalation of volatiles released from potable groundwater use) onsite is not considered complete. Therefore, the only potential exposure to groundwater by commercial/industrial workers that was evaluated in the property-specific risk assessment is inhalation of indoor air impacted via the vapor intrusion pathway.

Medium-specific analytical results form the basis for soil exposures. COC concentrations in indoor and construction trench air were estimated using fate and transport modeling.

3.6.3 Exposure Scenarios

Exposure pathways and scenarios are considered complete when a point of contact exists or potentially exists between an affected medium and a receptor. At the Property, potentially complete exposure scenarios are identified in the CSM (see Figure 8) and are associated with the following receptors:

- Adult commercial/industrial workers
- Adult construction/excavation workers
- Adult and child residential receptors

Exposure scenarios for these receptors are discussed below.

Adult Commercial/Industrial Workers

Adult commercial/industrial workers are expected to be employed either helping to build or providing support services related to manufacturing. Specifically, in December 2012, RACER sold the Property to BCDC. Adult commercial/industrial workers are expected to be potentially exposed through the inhalation of VOCs originating from groundwater and through incidental ingestion of, direct contact with, and inhalation of fugitive dusts and volatile contaminants from surface and subsurface soil near the current main plant building.

Adult Construction/Excavation Workers

Adult construction/excavation workers are expected to be hired on an as-needed basis to perform limited construction and utility work (for example, the installation and repair of utility lines). Adult construction/excavation workers are expected to be potentially exposed through the inhalation of VOCs originating from groundwater present in the air within a construction/excavation trench, or through incidental ingestion of, direct contact with, and inhalation of fugitive dusts and volatile contaminants from surface and subsurface soil.

Adult and Child Residents

A limited number of residences are located north of the site along or just north of West Fourth Street (Lincoln Highway). Off-site residents may potentially be exposed at their homes only via inhalation of fugitive dusts and volatile chemicals from surface soil and potable groundwater use; however, prevailing winds in the area of the site are predominantly from the west. IA-4 is the northernmost IA at which chemical concentrations in soil were found to be greater than industrial soil GNS values. IA-4 is about 1,000 feet south-southeast of the closest current residential location along the north side of West Fourth Street. As documented in EPA's Regional Screening Levels (RSL) User's Guide (EPA 2014b), the inhalation exposure pathway (inhalation of fugitive dusts and volatile chemicals from soil) contributes much less to total chemical exposure as compared to potential exposure via incidental ingestion and dermal contact. Therefore, chemicals present in soil on the Property present insubstantial risks and hazards to off-site residents.

One federal public water supply (PWS) system and 57 state registered wells are located within one mile of the Property. The federal PWS is a well field located between one-half and one mile east-southeast and is owned by the City of Ontario. In order to assess the potential for groundwater contamination measured in on-site wells to migrate off-site, chemical concentrations in the wells located closest to the perimeter of the Property were evaluated in the PSRA.

Finally, chemicals have been measured in a sediment sample outside the Property boundary, downstream of the storm water discharge from the Property along Beer Road. The storm water discharge is covered by NPDES permit 21S00045*GD. Contaminant concentrations in surface water and sediments were collected for informational purposes only as part of the due diligence for the Property and are not subject to any VAP applicable standards. Therefore, potential exposures to chemicals in surface water and associated risks and hazards are not addressed quantitatively in this property-specific risk assessment. However, cumulative risks and hazards associated with any exposure by members of the general public to property-related chemicals in sediment from the ditch alongside Beer Road are considered in the PSRA. As mentioned in above Section 3.4.4, the COCs detected in sediment samples within the Beer Road ditch are likely to have originated from a spill occurring at 815 North Beer Road. A 1990 Ohio EPA

Pollution Incident Report contains correspondence between the GM plant manager and the Ohio EPA discussing the source of oil and grease detected in a NPDES monitoring sample from the storm water pond effluent. Ohio EPA investigated the exceedance and observed a visible petroleum sheen on the surface of the water in the ditch along Beer Road. The visual trial of the petroleum sheen led upstream to the former Bender & Louden Trucking Terminal (815 North Beer Road) where the contamination apparently originated. In addition, elevated SVOC concentrations in sediment were detected at sample locations SD-02 and SD-04, correlating well to the incident report. Concentrations in the up-gradient SD-01 and those from other areas not impacted by the off-site release lend further support to the off-site source for the COCs detected in Beer Road ditch.

Table 4
Exposure Pathway Determination

IA	Exposure/Contact Medium	Transporting/Source Medium	Route of Exposure	Pathway Completion Status	Type
2	Groundwater	Groundwater Potable Use on Site	Ingestion	**COMPLETE -** Requires Remedy in the form of Institutional Control (GW Deed Restriction).	Human
3	Groundwater	Groundwater Potable Use Off Site	Ingestion	Incomplete - Class B Ground Water with no off-site receptors identified.	Human
4	Soil	Soil/Direct Contact	Direct Contact	**COMPLETE -** Soil at IA4-3 exceeds VAP Generic Direct Contact for Soils Standards above 2 feet bgs.	Human
4	Air	Groundwater/Indoor Air	Inhalation	Incomplete - No existing buildings within 100 feet of impacted area; J&E results indicate no unacceptable risk.	Human
4	Air	Soil/Future Indoor Air	Inhalation	Incomplete **-** J&E Modeling shows no risk for future construction in the area of IA4-3.	Human
5	Groundwater	Groundwater/Potable Use on Site	Ingestion	**COMPLETE** - Requires Remedy in the form of Institutional Control (GW Deed Restriction).	Human
5	Groundwater	Groundwater/Potable Use Off Site	Ingestion	Incomplete - Class B Groundwater with no off-site receptors identified.	Human
5	Air	Soil/Current Indoor Air	Inhalation	Incomplete - No existing buildings within 100 feet of impacted area.	Human
5	Soil	Direct Contact	Dermal Contact	Incomplete - Commercial/Industrial Point of Compliance is 2 feet bgs.	Human
5	Soil	Soil to Groundwater	Ingestion	Incomplete - Class B Groundwater with no downgradient receptor identified.	Human
10	Air	Soil to Indoor Air	Inhalation	Incomplete - No VOCs detected above standard.	Human
10	Soil	Soil to Surface Water	Ingestion	Incomplete - No Surface Water Body on the Property.	Human
10	Groundwater	Groundwater/Potable Use On Site	Ingestion	**COMPLETE -** Requires Remedy in the form of Institutional Control (GW Deed Restriction).	Human
10	Groundwater	Groundwater/Potable Use Off Site	Ingestion	Incomplete - Class B Groundwater with no off-site receptors identified.	Human

3.6.4 Soil Exposure Pathways

As shown in the CSM (Figure 8), the evaluation has concluded that there are completed pathways to on-site receptors. No completed pathways for soil exposure were identified for potential off-site receptors. The complete exposure pathway for on-site soil for commercial/industrial workers and/or excavation constructions workers include: 1) direct contact with shallow subsurface soils that could include ingestion, inhalation, and dermal contact; and, 2) inhalation exposure resulting from disturbing shallow subsurface soil particles into outdoor air. Because no buildings are currently located within 100 feet of the locations at which the exceedances were detected, the soil to indoor air pathway is not considered complete.

3.6.5 Groundwater Exposure Pathways

Tetra Tech assumes that the shallow saturated zones encountered beneath the Property meet the Ohio VAP definition for “groundwater”. COCs were detected in excess of Generic UPUS in three IAs at the Property. In accordance with Ohio VAP requirements, Tetra Tech conducted a second groundwater sampling event in June 2011 to confirm the results.

Laboratory results from the second groundwater sampling event confirmed Generic UPUS exceedances in IA-2, IA-5, and IA-10 at the Property. TCE was detected in excess of the Generic UPUS at monitoring well location MW5-2S. Arsenic was detected in excess of the Generic UPUS at monitoring well locations MW2-2, MW5-1, MW5-2S, MW5-2D, MW5-4, and MW2-1. Selenium was detected in excess of the Generic UPUS at monitoring well location MW10-1.

To address the detections that exceed Generic UPUS, Tetra Tech completed groundwater modeling in accordance with OAC 3745-300-07 to (1) simulate the migration of COCs from the hypothetical source area to the downgradient off-site receptors; (2) estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and (3) compare simulated maximum concentrations of COCs at the off-site receptor locations to the UPUS.

3.6.6 Definition of Groundwater

Tetra Tech assumes that the saturated horizons detected in the glacial till deposits at the Property meet the definition of groundwater as codified at OAC 3745-300-01.

3.6.7 Groundwater Classification

According to OAC 3745-300-10, groundwater must be placed into one of three classifications: critical resource groundwater, “class A” groundwater, or “class B” groundwater. Groundwater in a saturated zone that meets the following criteria is to be considered critical resource groundwater if:

1. The groundwater zone is being used by a public water system and is in a “drinking water source protection area for a public water system using groundwater,” as defined in paragraph (A) of rule 3745-300-01 of the Administrative Code;

2. The groundwater is located in an unconsolidated saturated zone as defined in paragraph (A) of rule 3745-300-01 of the Administrative Code that is capable of yielding water at a time-weighted average rate greater than one hundred gpm over a 24-hour period as determined in accordance with paragraph (F)(8) of rule 3745-300-07 of the Administrative Code; or

3. The groundwater is in a consolidated saturated zone as defined in paragraph (A) of rule 3745-300-01 of the Administrative Code that is part of a sole source aquifer as defined in paragraph (A) of rule 3745-300-01 of the Administrative Code.

The groundwater being classified on the Property does not meet any of the above criteria, and is therefore not classified as critical resource groundwater.

Groundwater that does not meet any of the above criteria for critical resource groundwater but meets any of the following criteria is classified as “Class A” groundwater if:

a. The groundwater is located in a saturated zone that is currently utilized as a source of potable water on the Property or within one-half mile of the boundary of the Property; or

b. The groundwater located in the saturated zone has a background level of total dissolved solids of less than 3,000 mg/L, and except as provided in paragraph (B)(2)(c) of this rule, the groundwater is in a saturated zone that is capable of yielding water at a time-weighted average rate greater than one-tenth of a gpm over a 24-hour period. The ground water yield must be determined in accordance with paragraph (F)(8) of rule 3745-300-07 of the Administrative Code.

The groundwater being classified on does not meet any of the above criteria, and is therefore not classified as “Class A” groundwater.

Groundwater that meets any of the following criteria is not “Class A” groundwater:

1. The groundwater is located in a saturated zone that yields less than three gpm as determined in accordance with paragraph (F)(8) of rule 3745-300-07 of the Administrative Code, and another groundwater zone underlies the Property that is a potential source of potable water within one mile of the Property. The groundwater zone used for comparison must be present beneath the Property and the surrounding area off-property, and yield three or more gpm and at least twice as much groundwater as the zone being classified; or

2. The groundwater is located in an unconsolidated saturated zone that yields less than three gpm over a 24-hour period and all parts of the zone are wholly contained within 15 feet bgs.

Groundwater that does not meet the criteria for either critical resource or “Class A” is considered “Class B” groundwater; groundwater on the Property has been determined to be “Class B” groundwater. The upper zone from which groundwater samples were collected for the assessment is not used for potable purposes; potable water wells in the surrounding area range from 112 to 285 feet bgs with yields between nine and 14 gpm.

The following requirements must be met at a Property where the underlying groundwater is classified as “class B” and the contamination is attributable entirely to the Property:

a. Implement institutional controls or engineering controls that reliably prevent human exposure on the Property to groundwater with concentrations of COCs in excess of VAP Generic UPUS or restore the groundwater underlying the Property to those VAP Generic UPUSs; and

b. The remedy or remedial activities must achieve compliance with applicable standards established under this chapter to:

c. Ensure protection of humans on and off the Property from exposures to COCs in groundwater not related to potable use of the groundwater. For the purposes of this rule, exposures to COCs in groundwater not related to potable use of the groundwater include exposures resulting from non-consumptive uses and exposures resulting from inadvertent contact with contaminated groundwater; and

d. Ensure protection of important ecological resources on and off the property.

3.6.8 Classification of Groundwater

According to OAC 3745-300-10, groundwater must be placed into one of three classifications: critical resource groundwater, “Class A” groundwater, or “Class B” groundwater. The highest yield determined for the saturated zones beneath the Property was 1.02 gpm with the lowest yield value of only 0.26 gpm. Recovery data collected at the conclusion of pumping at MW5-2D yielded a hydraulic conductivity value of 7.05×10^{-6} cm/sec.

In addition to the Property specific yield data developed from pump testing, published yield data obtained from the ODNR well log information for supply wells serving the Property and area properties were used for comparison to the shallow horizon encountered to determine groundwater classification. In accordance with Ohio VAP Technical Decision Compendium VA30007.03.004, Tetra Tech considers the glacial till and the intermittent saturated sand horizons contained within in it, a single hydrogeological unit. For the purposes of this Phase II PA, groundwater beneath the Property is divided into two distinct zones: 1) the shallow glacial till unit; and, 2) the sandstones and shales of the deeper Cuyahoga Group bedrock aquifer.

Ohio VAP permits the use of comparison of determined yield values to yields obtained from within the next deepest potable water bearing horizon in support of ground water classification. In short, the deeper aquifer must have yield values of at least two times that of the shallow glacial till in order to classify the shallower groundwater in accordance with VAP using the comparison method.

In this instance, published values for the deeper aquifer within the Cuyahoga Group Aquifer at the Property ranged from 25 to 200 gpm. In comparison to the values derived during pump testing at the Property (0.26 gpm to 1.02 gpm), yield in the Cuyahoga Group is 25 to 200 times the yield of the shallow glacial till unit encountered at the Property. Based on this comparison, the shallow groundwater encountered in the glacial till beneath the Property is Class B groundwater.

3.7 Groundwater Protection Provision

The process for determining whether a property meets the provision for protection of groundwater meeting VAP Generic UPUS is described in OAC 3745-300-07(F)(2). OAC 3745-300-07(F)(3) describes the process for demonstrating how continued compliance with the provisions for protecting groundwater meeting VAP Generic UPUS will be maintained. The UPUS determination is applied to two water bearing units at the Property: 1) the shallow glacial till unit; and, 2) the deep bedrock aquifer within the Cuyahoga Group.

As described in Section 3.6.5, groundwater encountered in the glacial till beneath the Property has been classified as "Class B." Laboratory results indicated that the Generic UPUS for Commercial/Industrial Workers and for Excavation/Construction Workers have been exceeded in three IAs at the Property. In accordance with VAP, Tetra Tech conducted a second groundwater sampling event to confirm the detected exceedances. Laboratory results from the second round of sampling confirmed the VAP Generic UPUS exceedances in IA-2, IA-5, and IA-10. Because the groundwater is considered "Class B", there is no completed ingestion pathway to potential receptors. No receptors to direct contact exposure were identified. As a result, protection of the shallow glacial till unit is not required under VAP.

Implementation of institutional controls or engineering controls to prevent human exposure on the Property is required to address the impacted "Class B" groundwater at the Property. The ingestion pathway for on-site receptors is a complete pathway. Institutional control, in the form of groundwater use deed restrictions will be required to meet standards for on-site receptors. No additional remedial activities are required to achieve compliance with applicable standards. The absence of a complete pathway will ensure protection of humans on the Property from exposures to COCs in groundwater.

Exposures to COCs in groundwater not related to potable use (non-consumptive uses and exposures resulting from inadvertent contact with contaminated groundwater) were evaluated in the PSRA included as Appendix G. The following potentially complete pathways were identified in association with commercial/industrial worker exposure at the Property. The following represent the completed groundwater pathways identified for the Property:

- Inhalation of VOCs from groundwater in a construction trench (construction/excavation workers only). (Note: the depth to groundwater at the Property is ≥ 12 feet bgs. Since the POC for construction/excavation activities is 10 feet bgs, excavations are not expected to intersect the water table, therefore, groundwater is not expected to enter construction/excavation trenches directly. While there is potential for "leakage" from the confined layer in situations where an excavating operation overlies the confined unit, it is not expected that the excavation would be inundated and the volume of groundwater entering an excavation would be limited. Consequently, direct contact exposures to groundwater for the construction/excavation scenario [ingestion and dermal contact] will not occur).

- Inhalation of indoor air (commercial/industrial workers only). It should be noted that because groundwater encountered in the glacial till unit at the Property is classified as "Class B", potable groundwater use (ingestion and dermal contact, as well as inhalation of volatiles released from potable groundwater use) onsite is not considered complete. Therefore, the only potential exposure to groundwater by commercial/industrial workers that was evaluated in the property-specific risk assessment is inhalation of indoor air impacted via the vapor intrusion pathway.

The PSRA concluded that risks associated with non-consumptive use of site groundwater are less than receptor-specific target cumulative risks and hazards. Groundwater modeling was conducted from monitoring wells (MW2-1, MW2-2, MW5-2S/D, MW5-4, and MW10-1) at the Property where COCs have been detected at concentrations exceeding their respective VAP UPUS values to the boundaries of the Property. The modeling results show that all modeled concentrations at the boundaries of the Property are less than their respective VAP UPUS. More detailed information is presented in the PSRA included as Appendix H. Groundwater modeling information is included as Appendix I.

Data generated during this investigation indicate that the shallow glacial till zones are not hydraulically connected. The absence of hydraulic communication between wells monitoring saturated horizons within the glacial till unit is exemplified by water level comparison and confined conditions observed in the monitoring well MW5-2 cluster. One shallow and one deep well were installed in this area to evaluate the potential for the two shallow horizons to be in communication. During pump testing at these locations, the groundwater elevations were monitored in the adjacent well for potential impact. Neither of the wells showed a response to pumping in the adjacent well. In addition, it is noted that under static conditions, the deeper horizon in this area exhibits a water level elevation that is higher than that of shallow horizon above it indicating a confined unit under artesian conditions. While there is potential for "leakage" from the confined layer in situations where an excavating operation overlies the confined unit, it is not expected that the excavation would be inundated and the volume of groundwater entering an excavation would be limited. Therefore, direct exposures (ingestion and dermal contact) will be negligible.

Protection of groundwater encountered in the deeper sand and shale bedrock aquifer beneath the Property is demonstrated through weight of evidence. The weight of evidence will demonstrate continuing compliance with POGWMUPUS in accordance with OAC 3745-300-07 (F) (3). The ODNR well log for the on-site production well screened in the Cuyahoga Group, deep soil borings installed during this investigation, and ODNR information regarding additional deep wells in the area indicated that it is reasonable to assume that COCs from sources or source areas in soil and in the upper saturated horizons encountered on the Property will not migrate to the Cuyahoga Group bedrock at concentrations in excess of VAP Generic UPUS now or in the future. A copy of the ODNR well log for the on-site production well is provided in Appendix C. It is reasonable to assume the groundwater in the bedrock water unit will not exceed unrestricted potable use standards based on a weight of evidence determination in accordance with 3745-300-07 (F) (3). The weight of evidence to support this assumption includes the following:

- Hydraulic testing in the shallow clayey sand and gravel lenses encountered within the clay-rich till indicates that vertical hydraulic conductivity values are negligible, suggesting downward migration of COCs is unlikely. Vertical hydraulic conductivity (K) at the Property, based on water level measurements in MW5-2-D during pumping at MW5-2S, suggests there is no interconnection of the two saturated horizons in the glacial overburden. This is also indicative of vertical K values so low they are beyond the capabilities of technology available to measure them. The material represents a groundwater barrier, greatly reducing the potential for downward migration of COCs into the deeper bedrock unit.

- The ODNR well log for the on-site production well (Appendix D) indicates that the glacial overburden at the property extends to 72 feet bgs. This is consistent with the deep boring installed by Tetra Tech in this investigation which met refusal at 76 feet bgs.

- Logs for deep borings (IA-4-4) installed at the Property also indicate in excess of 76 feet of silty clay till atop sandstone and shale bedrock. Over 25 feet of clay till exists between the base of the lowest saturated horizon encountered in the unconsolidated glacial till at the Property and the depth at which bedrock is encountered at the Property. The vertical hydraulic conductivity measured in the glacial till is negligible and there was no evidence of vertical fractures or structural features that could serve as a conduit for vertical migration into the deeper unit.

- Vertical migration of residual contaminants associated with shallow sand lenses is unlikely because the underlying low-permeable tills would favor attenuation of contaminant concentrations by means of sorption, dispersion, and diffusion.

Based on information collected during this investigation, the only potential pathway remaining that could permit vertical migration of contaminants from shallow saturated horizons to the bedrock of the Cuyahoga Group is the production well at the Property. After a comprehensive historical document review, as well as an extensive and thorough search of the area in which the well was reportedly located, attempts to locate the feature were unsuccessful. Tetra Tech and its drilling subcontractor accurately determined the longitude and latitude reported on the original well log and investigated the area thoroughly. It is assumed that the production well was abandoned and covered at the surface after the property converted to city supplied water.

The thickness of the glacial till material and lower permeability units documented within the upper Cuyahoga Group at the Property; the likelihood of contaminant attenuation; and the proper abandonment of the production well at the property represent acceptable protection for the Cuyahoga Group aquifer beneath the Property providing weight of evidence satisfying the requirements of OAC 3745-300-07(F)(3).

3.8 Groundwater Response Requirements

Based on the information presented, the appropriate groundwater response requirement is found in OAC Rule 3745-300-10(E)(6)(a). This scenario includes affected groundwater zones designated as Class B, where corresponding contamination is attributable entirely to sources or source areas located on the Property, and an underlying ground water zone occurs where the provisions of POGWMUPUS can be applied. The following points demonstrate compliance with OAC Rule 3745-300-10(E)(6)(a)(i), (a)(ii)(a), and (a)(ii)(b):

> *3745-300-10(E)(6)(a)(i) – Requires the implementation of institutional controls or engineering controls that will reliably prevent human exposure on the property to ground water with concentrations of chemical(s) of concern in excess of unrestricted potable use standards or restore the ground water underlying the property to those unrestricted potable use standards.*
>
> *3745-300-10(E)(6)(a)(ii)(a) – Requires that volunteers ensure protection of humans on and off the property from exposures to chemical(s) of concern in ground water not related to potable use of the ground water.*
>
> *3745-300-10(E)(6)(a)(ii)(b). – Requires that volunteers ensure protection of important ecological resources on and off the property.*

The requirements of 3745-300-10(E)(6)(a)(i) will be satisfied at the Property through the use of an institutional control in the form deed restrictions prohibiting groundwater use. The requirements of 3745-300-10(E)(6)(a)(ii) have been satisfied through the completion of a PSRA. The PSRA was completed in a manner consistent with the procedures specified in OAC 3745-300-09. It is assumed that in the future the Property will be used to support various commercial/industrial operations. Consistent with a future commercial/industrial land use, the risk assessment focused on potential exposures to two groups of receptors: commercial/industrial workers and construction/excavation workers. However, the risk assessment also evaluated off-property general public (primarily residential and recreational) exposures.

Exposures, risks, and hazards were evaluated and characterized for those IAs at which at least one chemical had been found at a concentration exceeding revised 2014 Ohio EPA VAP UPUS. With regard to the requirements of 3745-300-10(E)(6)(a)(ii), the PSRA concluded that risks and hazards associated with groundwater exceedances in IA-5 and IA-10 are less than or equal to receptor-specific target cumulative risks and hazards.

Potential off-property risks related to COC exposures from the Property are less than a target cumulative risk of 1E-05 and a target cumulative hazard of 1 (OAC 3745-300-09 (B)(1)(ii)) based on (1) insignificant exposures (inhalation of particulates and vapors), (2) limited exposure to off-site sediments with arsenic concentrations less than Property-specific background arsenic concentrations, and (3) measured and modeled groundwater concentrations at the Property boundaries less than 1E-05.

The requirement to conduct a property-specific risk assessment when important ecological resources or sediments are impacted by hazardous substances (OAC 3745-300-09(2) (d)) is not required for two primary reasons. First, there are no complete exposure pathways to important ecological receptors other than surface water and sediment (see OAC 3745-300-9 (A)(4)(e)). The northern portion of the Property is dominated by the former Main Plant Building and related paved parking and operational areas. The southern portion of the Property is covered in grass and contains no unique ecological habitat or features, including natural surface water bodies. Second, storm water discharge from the Property represents the only potential pathway for off-site migration and it is covered by NPDES permit 21S00045*GD making the feature ineligible for inclusion in the VAP.

Tetra Tech conducted a cursory evaluation of the potential for groundwater to discharge to the ditches that comprise the drainage network in the Southern Terrace area. While stream profiles necessary to accurate evaluate the features do not exist, it is apparent that if groundwater discharges to these features, it will be incorporated into the drainage system and discharge under the existing NPDES permit.

3.9 Determination of Applicable Standards

In accordance with OAC 3745-300-07(I), the volunteer must demonstrate compliance with applicable standards for all current and reasonably anticipated exposure pathways. Future use at the property will be restricted using institutional controls. Deed restrictions will be put in place limiting property use to commercial/industrial use and prohibiting the use of groundwater. As a result, the appropriate standards for comparison of property specific data are the revised 2014 industrial/Commercial Standards.

3.9.1 Preliminary Characterization of Soil Standards

The intended future use of the Property is to remain industrial, in accordance with the categories listed in OAC 3745-300-08(C)(2)(c). OAC 3745-300-07(I)(1)(a)(i)(b) indicates that the point of compliance for the standards is from the ground surface to a minimum of two feet bgs. For properties where excavation and/or construction activities are expected to take place, the point of compliance is from the ground surface to a point which is reasonably anticipated for activities on the Property. The following subsections present Tetra Tech's findings with regard to soil standards by IA. Soil sample locations yielding results in excess of VAP direct contact standards are limited to IA-4 as shown in Figure 12.

3.9.1.1 Snow Staging/Rack Storage Area - IA-1(a, b, c)

Three deep (>30 feet bgs) and five shallow (5 feet bgs) soil borings were installed in IA-1. The five shallow borings were installed to investigate the potential for soils in the area to have been impacted by ethylene glycol. Ethylene glycol was apparently used in a circulating piping system beneath the asphalt in this area to help melt snow plowed from parking areas and driveways. Two previous releases from the system were identified in the Phase I PA (IA-1a and IA-1b). The deep borings were placed at the southern end of the paved parking area adjacent to the rack wash building (IA-1c). These borings were intended to evaluate the potential for soils in the area to have been impacted by the storage of parts racks before and after washing in the rack wash building. Laboratory results indicate that none of the COCs, including ethylene glycol, was detected in the soil samples collected from IA-1 soil borings. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.2 Former UST Farm - IA-2

Records review conducted during the Phase I PA indicated that three USTs were formerly located near the southwestern corner of the main plant building beneath the concrete driveway. The USTs received a NFA determination from Ohio BUSTR following their removal. To confirm the condition of subsurface soil in this area, Tetra Tech installed three soil borings (IA-2-1, IA-22, and IA-2-3). The borings were off set from the original UST basin to ensure that samples were representative of native material that remained following the removal of the USTs. This prevented sampling of clean back fill used after removal of the USTs. Laboratory results indicate that, while COCs were detected in soil samples from IA-2, none of the detected concentrations exceeded the VAP Generic Direct Contact Soil Standards. This IA is resolved based on a previous BUSTR NFA and the results of this Phase II PA investigation.

3.9.1.3 Missing/Misidentified USTs - IA-3

Records review conducted during the Phase I PA yielded conflicting results with regard to registered USTs at the Property. Additional investigation in the form of additional file review and a physical search for potential UST locations was completed. Table 5 below presents clarification of the status of USTs identified during the Phase I PA. According to the plant manager, only the 15,000 gallon "spill tank" remains in the subsurface at the Property.

Many of the Missing/Misidentified UST may have been the result of the original 1984 RCRA UST filing (a copy is shown in the Phase I PA). At that time, many tanks were listed on the original filing that were not by definition "BUSTR regulated USTs". These include the Former WWTP treatment tanks and possibly the 8,000 gallon TCE tank. The plant manager has no knowledge that a TCE UST existed and no evidence of an 8,000 gallon UST was observed

during the Phase I and Phase II PA Property visits. It is possible a TCE tank or vat associated with de-greasing operations was on the Property and was erroneously listed as a UST with the other misidentified tanks, however, no TCE tank was observed. A 1981 map of the Property received by the Ohio EPA Hazardous Waste Facility Approval Board during the Phase I PA indicates the presence of four USTs that were not registered with BUSTR. Additionally, a Notification for USTs dated April 1986 indicated the presence of ten USTs on the Property, three of which were included in the NFA letters from BUSTR files.

Anecdotal reports from facility personnel suggested that a stainless steel AST was formerly located in the area immediately adjacent to the northeast corner of the main plant building. The AST had been removed, but the location of the former AST was identified based on remaining support rack components. Tetra Tech installed three soil borings in this area. Laboratory results from the three IA-3 soil borings indicate no detections of VOC compounds greater than laboratory detection levels and minor detections of TPH DRO and TPH ERO well below their respective VAP soil saturation limits. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.4 Former WWTP - IA-4

GM operated a WWTP at the Property from 1955 to 1990 in the area immediately south of the baler house. The WWTP was decommissioned and demolished following construction of the existing WWTP in 1990. This IA also was extended to include the area of the baler house and raw material storage areas along the east side of the main plant. Soil borings IA4-1 through IA4-9 were installed in this area.

Laboratory results indicate an exceedance of the VAP Generic Direct Contact Soil Standards for Commercial/Industrial Workers and Construction/Excavation Workers. The 0 to 2 foot bgs samples collected in several shallow soil borings in the area of the original WWTP exceeded the VAP standard for several PAHs. Laboratory results for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz (a,h) anthracene, and indeno (1,2,3-cd) pyrene indicate that the concentrations of these PAHs exceed the applicable VAP Generic Direct Contact Soil Standards. In addition, the concentration of naphthalene in soil at this location was subjected to J&E modeling to evaluate VI potential. Initial model runs using default input parameters; predicted indoor air concentrations for a hypothetical future structure built on this area resulted in a VI risk of 5.3E-05 and a hazard of 1.5, slightly exceeding the 1E-05 Ohio EPA Industrial TR

TABLE 5
CLARIFICATION OF UST STATUS

Installed	Capacity (g)	Material	Product	Location	Removed	Associated Soil Borings	Comments
1956	7,000	Concrete	Used Oil	Former WWTP	Unknown	IA4-1 through IA4-10	Component of the former WWTP
1956	50,000	Concrete	Oily Wastewater #1	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
1956	50,000	Concrete	Oily Wastewater #2	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
1956	22,000	Concrete	Oil Sludge	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
1960	8,000	Steel	Diesel	Unknown	Last used in June of 1975	NA	No further record of removal or location
1976	6,000	Steel	Diesel	Unknown	Unknown	NA	Plant Manager has no knowledge that this UST ever existed
1978	8,000	Steel	Trichloroethylene	Unknown	Unknown	NA	Plant Manager has no knowledge that this UST ever existed
1981	10,000	Steel	Kerosene	Unknown	Unknown	NA	Plant Manager has no knowledge that this UST ever existed
1986	2,000	Steel	Gasoline	SW Corner of Plant	2003 (NFA)	IA2-1 through IA2-3	Former UST Farm IA-2
1986	2,000	Steel	Gasoline	SW Corner of Plant	2003 (NFA)	IA2-1 through IA2-3	Former UST Farm IA-2
1986	2,000	Steel	Diesel	SW Corner of Plant	2003 (NFA)	IA2-1 through IA2-3	Former UST Farm IA-2
1986	15,000	Steel	Hazardous Waste Liquid NOW	SW Corner of Plant	Spill tank remains in place	IA10-1 through IA10-4	Spill over fill tank outside oil crib

Unknown	Unknown	Unknown	Underground Fuel Oil Tank	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
Unknown	Unknown	Unknown	Underground Oil Storage Tanks (2)	NE corner of plant	Geosearches did not identify any tanks; 2 soil borings placed in the area did not reveal contamination	IA3-1 and IA3-2	There is evidence to suggest that these were ASTs and have been removed
Unknown	Unknown	Unknown	Underground Gas Tank	Beneath 1984 extension	1983-1984. Per Jerry, this was removed when the extension was built	NA	1983-1984, Plant Manager indicates that this UST was removed when the extension to the main plant was built in 1984
Unknown	10,000	Unknown	Oil	Unknown	Unknown	NA	Plant Manager has no knowledge that this UST ever existed
Unknown	10,000	Unknown	Oil	Unknown	Unknown	NA	Plant Manager has no knowledge that this UST ever existed
Unknown	62,000	Unknown	Waste Water process Tank	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
Unknown	62,000	Unknown	Sludge Tank	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
Unknown	6,500	Unknown	Used Oil Tank	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP
Unknown	26,000	Unknown	Used Oil Tank	Former WWTP	Prior to 1991	IA4-1 through IA4-10	Component of the former WWTP

Per Jerry Kline, Plant Manager, all USTs have been removed from the subsurface at the site with the exception of the Spill Tank.

and hazard, respectively. As a result, Tetra Tech returned to the Property to collect soil samples for geotechnical analysis in accordance with ASTM Guidelines for use as site specific inputs for J&E modeling. Site-specific input parameters used included: soil bulk density, total porosity, water-filled porosity, and foc in accordance with Ohio VAP guidance. The laboratory results for the site specific geotechnical analysis is provided in Appendix J.

The VI risk for naphthalene at boring IA4-3 was reduced to 8.8E-06 and the hazard index was reduced to 0.24. The revised risk is less than 1E-05, the Ohio EPA Industrial TR and the revised hazard index is less than 1. Summing the revised naphthalene risk and hazard for boring IA4-3 with the remaining default-based (and, therefore, more conservative) risks and hazards for the remaining analytes resulted in a revised total risk of 8.9E-06 (less than the Ohio EPA Industrial TR) and a revised total hazard of 0.36 (less than 1). Therefore, upon incorporating site-specific geologic/hydrogeologic information into the J&E modeling, Tetra Tech determined that the soil and groundwater contamination at the Property is not associated with any significant VI risks or hazards.

3.9.1.5 Artificial Fill/Slope Area - IA-5

Records review associated with Phase I PA revealed a figure depicting the graded area immediately south of the main plant and driveway as “Former Landfill.” No evidence of a release was detected in association with this feature. Facility employees report that the feature represents artificial fill material excavated from other areas of the site during construction of the 1983 addition to the main plant. Tetra Tech installed four (4) soil borings on the down gradient side of the feature (IA-5-1 through IA-5-4) and four (4) additional borings through the feature (LF-1 through LF-4). These borings were intended to evaluate the nature of material in the subsurface associated with this feature.

Visual observations and PID field screening associated with the landfill borings (LF series) indicated that the feature is filled with borrow material from other areas of the Property. There was no evidence of actual landfill activities based on the boring samples. One composite sample was generated from the materials collected from the four landfill borings.

Tetra Tech also conducted a GPR survey of the Soil Pile/ Slope Fill feature to gather additional data regarding the potential contents of the feature. The results of the GPR survey (Appendix K) supported the theory that the feature is simply artificial fill material rather than a “landfill.”

Tetra Tech installed seventeen test pits throughout the foot print of the feature to visually confirm its contents. Observations from the test pits confirmed the data collected through soil borings and the GPR survey. The Property appears to be an area of fill material, apparently borrow from other areas of the Property during various construction projects. The soil fill is consistent with the clay till and silty clay observed in place throughout the Property. The material has clearly been disturbed but appears to be primarily natural soils from other areas of the Property. Four composite soil samples were collected from the test pits. Each composite sample was generated from soil collected from three to four different test pits.

Laboratory results for the four test pit composite soil samples and from the soil boring composite soil sample indicate that, while COCs were detected in the samples, none exceeded VAP Generic Direct Contact Soil Standards. The analytical results of the four test pit composite samples (identified as LF-1 through LF-4) and the analytical results for the composite sample from the four landfill borings are summarized in Tables 2 and 3 at the front of Appendix G. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.6 Coal Storage Area - IA-6

IA-6 comprises the former coal storage area, including the grass area south of the coal “crib”, and adjacent areas used for raw material storage. Tetra Tech installed two deep (30+ feet bgs) and eight shallow (5 feet bgs) soil borings in this area to evaluate the potential impact of long term historical coal storage and the area immediately south of the power plant and WWTP. Laboratory results for soil boring samples collected in IA-6 indicate that while COCs were detected in soil samples collected in IA-6, none of the detected concentrations exceed VAP Generic Direct Contact Soil Standards. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.7 Original Switch House - IA-7

During the Phase I PA, Tetra Tech observed standing water flooding the basement of the Original Switch House at the Property. One surface water grab sample was collected from the standing water to determine the potential for it to have been impacted by PCB-containing electrical equipment. The sample was intended for use as a screening tool and to aid the Property owner with proper disposal, if necessary.

Tetra Tech also collected 10 PCB wipe samples to evaluate building materials for potential impact. Laboratory results indicate that none of the COCs were detected in the water sample collected in the switch house basement. No PCBs were detected in excess of the LMDLs for wipe samples collected in the Original Switch House. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.8 Stained Flooring/Sumps/Floor Drains - IA-8

Tetra Tech observed oil stained flooring in the basement of the main plant, particularly in the area of the “marriage station” sump where the scrap conveyors meet before existing to the baler house. This low area of the plant is also the point at which wastewater meets before being transferred by pump to the WWTP.

The thickness of the concrete in the basement of the plant (over two feet) prevented intrusive sampling in the immediate area of the “marriage station.” Tetra Tech completed a geophysical survey in the area of the “marriage station” and along the tunnel that conveys the piping and scrap conveyor to the baler house and WWTP.

The results of the survey indicate that in the “marriage station” area (approximately 100’ x 20’) the concrete thickness is approximately two feet. The data, when presented in cross-section, indicate that the concrete floor does not exhibit evidence of voids, cracks or leakage. The reflection within the concrete floor appears to indicate that material in this area is consistent with regard to thickness and in good condition.

The corridor area along the scrap conveyor measures 422 feet long by 10 -feet wide. The portion of the corridor that represents a steeply inclined ramp out of the basement toward the baler house is approximately 46-feet long by seven feet wide. The concrete thickness in this area was also approximately two feet. Based on the data as presented in cross-section the concrete floor in the area between approximately 140 to 200 feet from the “marriage station” appears to have been weakened, possibly through water damage. The weakening in this area is indicated by what appears to be the presence of voids beneath the surface, apparent sagging of the concrete and warping of the reinforcement steel at the base of the concrete.

This was the only area of concrete surveyed that indicated evidence of deterioration within the concrete structure.

One deep boring was installed along the east wall of the main plant in close proximity to the area in which the concrete slump was detected. The boring, IA8-1 (formerly IA4-10), extended to 30 feet bgs and was sampled continuously. The soil sample collected from the 25 foot to 27 foot bgs sample interval, the elevation roughly equivalent to the sump within the “marriage station”, was sent to Test America for analysis.

Laboratory results indicate that the 25 foot to 27 foot bgs soil sample interval did not yield results for COCs in excess of the Ohio VAP Generic Direct Contact Soil Standards. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.9 Existing WWTP - IA-9

GM constructed the existing WWTP in 1990. The plant treats industrial wastewater from the Property, essentially comprising facility wastewater streams with the exception of sanitary sewer and storm water. Wastewater and oil from the main plant are conveyed to the “marriage station” described in IA-8 above. The sump in the “marriage station” is used to collect the waste stream and convey it to the WWTP through piping that follows the conveyor tunnel to the baler house and the existing WWTP.

The existing WWTP is a closed system equipped with oil water separation technology and treatment vessels that reduce contaminants in the waste stream prior to discharge to the Publically Owned Treatment Works (POTW) under permit from the City of Ontario. The entire IA is contained within the foot print of the building and no evidence of a real or potential release was identified in association with this IA. As a result no sampling was conducted in this IA and it requires no further investigation. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.10 Hazardous Waste Storage Area - IA-10

Phase II activities in IA-10 were completed to evaluate subsurface conditions in the area of the Hazardous Waste Accumulation and Storage area, the near-by “spill tank”, and the oil crib on the interior of the plant. Tetra Tech installed four soil borings adjacent to and downgradient of the Hazardous Waste Accumulation and Storage pad and the nearby “spill tank.”

Laboratory results for the samples from borings IA10-1 through IA10-4 indicate that while COCs were detected in the samples collected in IA-10, none of the concentrations exceeded VAP Generic Direct Contact Soil Standards. This IA is resolved based on the receipt of an Ohio BUSTR NFA and the results of this Phase II PA investigation.

3.9.1.11 ACBM Investigation – IA-11

Tetra Tech’s review of available ACBM inspection results revealed that ACBM data does exist for some of the “out buildings.” The original Switch House in particular has been inspected for ACBM and the results of that inspection are provided with laboratory analytical results, sample locations, and estimates of volume in Appendix J. An additional, although non-comprehensive report also is provided in Appendix M presenting the results of some limited inspections conducted in association with other “out buildings” at the Property. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.12 Wood Block Flooring Results – IA-12

Results of the waste characterization analysis for the wood block flooring material are included in Appendix H. The laboratory results indicate that the composite samples of the wood block flooring yielded positive results for some SVOCs and metals. Additionally, the composite sample collected of the pine floor of West Shipping showed a positive result for Aroclor 1260, which is one component of PCBs. Disposal of wood block flooring material will require coordination with an appropriate waste disposal contractor to ensure proper disposal in accordance with Ohio Solid Waste Regulations. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.13 South Field Lower Terrace Fill Results – IA-13

Laboratory analytical results for the soil samples collected in IA-13 (South Field Lower Terrace Fill) area are included in Appendix H. The laboratory results yielded detections in excess of the LMDL for VOCs (acetone, methylene chloride). However, none of the COCs were detected in concentrations that exceed the VAP Generic Direct Contact Soil Standards. Tetra Tech conducted a geophysical survey in the area in order to identify anomalies; the geophysical report revealed that the area consisted of inter-bedded sand clay. No subsurface anomalies were identified in the area. This IA is resolved based on the results of this Phase II PA investigation.

3.9.1.14 Eastern Raw Material Storage Area – IA-14

The IA-14 series borings were located based on observations in the field and historical aerial photography. Soil borings IA14-1 through IA14-3 were located in the raw material storage areas observed on aerial photographs taken of the plant under operating conditions. Parts racks and other equipment and materials were observed being stored in the gravel parking areas along the eastern portion of the Property.

Laboratory results for the IA-14 series borings indicate that while COCs were detected in the samples collected in IA-14 none of the concentrations exceeded VAP Generic Direct Contact Soil Standards. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2 Applicable Standards for Groundwater

Tetra Tech assumes that onsite groundwater meets the Ohio VAP definition of “groundwater.” Hydraulic testing indicates that the glacial till unit meets the requirements for Class B groundwater, as discussed in Section 3.6.2. Groundwater sampling results were compared to the VAP UPUS and EPA MCLs. Arsenic concentrations in six wells (MW2-1, MW2-2, MW5-1, MW5-2D, MW5-2S, and MW5-4) and selenium concentrations in one well (MW10-1) exceeded their respective VAP UPUS. Monitoring well MW5-2S also contained vinyl chloride and trichloroethene at concentrations exceeding VAP UPUS. Groundwater modeling was conducted at the Property where COCs have been detected at concentrations exceeding their respective VAP UPUS values to the boundaries of the Property. The modeling results show that all modeled concentrations at the boundaries of the Property are less than their respective VAP UPUS. Monitoring well locations with samples yielding COCs in excess of UPUS are illustrated in Figure 9. The following subsections discuss the laboratory results by IA.

3.9.2.1 Snow Staging/Rack Storage Area - IA-1(a, b, c)

Tetra Tech installed one groundwater monitoring well in IA-1. Monitoring well location MW1-6 was installed to a depth of 30 feet bgs at the southern end of the west parking lot down gradient of the rack wash storage area and the snow melt areas. Monitoring well location MW1-6 failed to develop sufficient groundwater for sampling and analysis. Tetra Tech was again unable to sample well MW1-6 during the second round of groundwater sampling conducted June 1 through 2, 2011 due to insufficient water volume. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.2 Former UST Farm - IA-2

Tetra Tech installed two groundwater monitoring wells (MW2-1 and MW2-2) in the area of the former UST Farm. The monitoring wells were intended to evaluate groundwater conditions in the area of the former UST basin. Laboratory results indicate that VAP Generic UPUS were exceeded for arsenic at MW2-1 in April and June, 2011 and in MW2-2 in June 2011. None of the remaining COCs were detected in groundwater in excess of the applicable VAP Generic UPUS in this IA. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.3 Missing/Misidentified USTs - IA-3

Tetra Tech conducted additional research regarding the historic UST information for the Property. Groundwater samples collected throughout the Property were analyzed for VOCs, PAHs, metals, TPH DRO/GRO. The only detectable compounds that exceeded the Ohio VAP Generic UPUS concentrations were arsenic and TCE which are discussed further in Section 3.9.2.5 below. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.4 Former WWTP - IA-4

Tetra Tech installed one monitoring well in IA-4. Monitoring well location MW4-7 was installed adjacent to the scrap conveyor on the west side of the bailer house to the northwest of the Former WWTP footprint. Laboratory results indicate that none of the COCs was detected in excess of the applicable VAP Generic UPUS Standards in this IA.

3.9.2.5 Artificial Fill/Slope Area - IA-5

To evaluate the potential for borrow material in the fill area to have impacted groundwater, Tetra Tech installed four groundwater monitoring wells in IA-5. Monitoring well locations MW 5-1, MW5-2S, MW5-2D, and MW5-4 were installed immediately down gradient of the feature at the base of the slope. Monitoring wells MW5-2S and MW5-2D were installed as a “nested pair” to provide information regarding vertical hydraulic conductivity values between sand lenses or saturated horizons.

Laboratory results indicate that the VAP Generic UPUS were exceeded for arsenic at MW5-1 and MW5-2D and MW5-4; vinyl chloride at MW5-2S; and TCE at monitoring well location MW5-2S. These exceedances were confirmed with the second round of samples collected on June 1 and 2, 2011; MW5-2S also had an exceedance of arsenic in June. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.6 Coal Storage Area - IA-6

Tetra Tech installed one groundwater monitoring well in IA-6 through the concrete floor of the coal crib immediately adjacent to the Existing WWTP. Monitoring well location MW6-1 failed to develop sufficient groundwater for sampling and analysis.

Tetra Tech attempted to sample well MW6-1 during the second round of groundwater sampling conducted June 1 through 2, 2011. The well did not contain sufficient volume to sample during the second event. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.7 Original Switch House - IA-7

No groundwater monitoring wells were installed in IA-7. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.8 Stained Flooring/Sumps/Floor Drains - IA-8

No groundwater monitoring wells were installed in IA-8. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.9 Existing WWTP - IA-9

The existing WWTP is a closed system equipped with oil water separation technology and treatment vessels that reduce contaminants in the waste stream prior to discharge to the Publically Owned Treatment Works (POTW) under permit from the City of Ontario. The entire IA is contained within the foot print of the building and no evidence of a real or potential release was identified in association with this IA. As a result no sampling was conducted in this IA and it requires no further investigation. This IA is resolved.

3.9.2.10 Hazardous Waste Storage Area - IA-10

Tetra Tech installed two groundwater monitoring wells in IA-10 to evaluate the potential impact to groundwater as a result of the former UST basin. Monitoring wells MW10-1 and MW10-2 were installed adjacent to and down gradient of the Hazardous Waste Storage and Accumulation Area.

Monitoring well location MW10-2 failed to develop sufficient groundwater for sampling and analysis during both rounds of groundwater sampling. However, Tetra Tech was able to sample well MW10-1 during each groundwater sampling event (April 2011 and June 2011). Laboratory results for the second round of sampling conducted June 1 and 2, 2011 indicate that one of the COCs (selenium) exceeded VAP Generic UPUS at monitoring well location MW10-1. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.11 ACBM Investigation – IA-11

Groundwater was not evaluated in association with this IA. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.12 Wood Block Flooring – IA-12

Groundwater was not evaluated in association with this IA. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.13 South Field Lower Terrace Fill – IA-13

Groundwater was not encountered in the soil borings installed in IA-13. Groundwater was not evaluated in association with this IA. This IA is resolved based on the results of this Phase II PA investigation.

3.9.2.14 Eastern Raw Material Storage Area – IA-14

Tetra Tech installed one groundwater monitoring well (MW14-1) in IA-14 to evaluate the potential impact to groundwater as a result of raw material storage and the waste water sewer line that passes through the IA. MW14-1 was sampled during the April 2011 sampling event but did not contain sufficient water for sampling during the June 2011 event. Laboratory analytical results for the April 2011 sampling of MW14-1 indicated no exceedances of Ohio VAP UPUS. This IA is resolved based on the results of this Phase II PA investigation.

4.0 PRE-REMEDY PHASE II ASSESSMENT CONCLUSIONS

This section presents Tetra Tech's conclusions resulting from Phase II PA activities completed at the Property. Ohio VAP Generic Direct Contact Soil Standards were exceeded in one IA at the Property, IA-4. Ohio VAP Generic UPUS for groundwater were exceeded in three IAs; IA-2, IA-5 and IA-10.

4.1 Soil

Soil samples yielding the exceedance of the revised 2014 Commercial/Industrial and Excavation/Construction Direct Contact to Soil Standards were collected in the 0 to 2 foot bgs sample interval at soil borings in the vicinity of IA-4-3. Additional samples collected from the same locations in the 2 to 4 foot and deeper intervals indicate decreasing concentrations of COCs, with none of the COCs exceeding the applicable revised Ohio VAP Direct Contact Soil Standard in those intervals. This data indicates that the impacted soil is limited to shallow, near surface horizons of less than 5 feet bgs in this area (Figure 12). This is consistent with the fact that the sample location was in close proximity to the coal storage and Power House areas, both potential sources of PAH compounds.

Tetra Tech completed an evaluation of the Phase II analytical results with regard to the potential for VI. The evaluation was completed using site-specific input parameters in accordance with Ohio EPA guidance (Ohio EPA 2010). The Phase II PA did not reveal a significant concern regarding VI at the Property. There currently appears to be no complete VI exposure pathway at the Property. J&E modeling resulted in a revised total risk of 8.9E-06 (less than the Ohio EPA Industrial TR) and a revised total hazard of 0.36 (less than 1). Therefore, upon incorporating site-specific geologic/hydrogeologic information into the J&E modeling, Tetra Tech determined that the soil and groundwater contamination at the Property is not associated with any significant VI risks or hazards.

Tetra Tech recommends corrective action in association with the soil in the 0 to 5 feet bgs horizon in the area of IA-4-3 to meet the Commercial/Industrial and Excavation/Construction Direct Contact to Soil Standards. Due to the limited area and shallow depth, the best alternative for corrective action is excavation of impacted material to a depth of 5 feet bgs followed by confirmatory sampling and placement of clean back fill material. Near surface samples exceeded the Commercial/Industrial and Excavation/Construction Direct Contact to Soil Standards for several PAH compounds. The concentrations detected resulted in the slight exceedance of the Ohio EPA Industrial TR for future potential receptors via the VI pathway under the first model run using default input parameters. The model was run a second time using site-specific input parameters resulting in no exceedance of the Ohio EPA Industrial TR for future users via the VI pathway. The laboratory analytical results for the delineation sampling events are provided in Appendix G and the area proposed for corrective action is illustrated on Figure 12.

4.2 Groundwater

Laboratory results indicate that COCs were detected in groundwater exceeding applicable VAP Standards at IA-2, IA-5, and IA-10. At IA-5, monitoring well location MW5-2S showed TCE and vinyl chloride were detected in excess of the UPUS. Several metals were detected in groundwater samples collected in IA-2 and IA-5, with arsenic exceeding the revised 2014 VAP Generic UPUS in one well at IA-2 and in three wells at IA-5.

Tetra Tech conducted a second round of groundwater sampling to confirm these exceedances in early June 2011. The second round data confirmed that the VAP Generic UPUS has been exceeded in IA- 2, IA-5, and IA-10. The exceedances in IA-2 are limited to arsenic; the COCs exceeding the VAP Generic UPUS in IA-5 are TCE and arsenic; and the exceedance in IA-10 is limited to selenium.

Because the groundwater encountered in the glacial till unit is classified as “Class B” groundwater the onsite ingestion pathway is not complete. In addition, an Institutional Control will be placed on the Property as a remedy in the form of a groundwater use deed restriction. Groundwater modeling revealed that no potential down gradient off-site receptors to the detected COCs have been identified. Tetra Tech modeled the groundwater to indoor air pathway and found that none of the groundwater data collected during the Phase II PA resulted in exceedances of Ohio EPA Industrial TR levels to the VI pathway. Therefore, Tetra Tech recommends that institutional control in the form of a deed restriction on the use of shallow groundwater from the glacial till unit be put in place as a remedy to the COCs exhibiting exceedances in groundwater. Groundwater modeling was conducted from monitoring wells (MW2-1, MW2-2, MW5-2S/D, MW5-4, and MW10-1) at the Property where COCs have been detected at concentrations exceeding their respective VAP UPUS values to the boundaries of the Property. The modeling results show that all modeled concentrations at the boundaries of the Property are less than their respective VAP UPUS.

4.3 Demonstration of Compliance with UPUS

Analytical results for samples collected at monitoring well MW14-1(located on the southwestern property line) indicate that COC concentrations do not exceed applicable standards at the Property boundary. None of the analytes were detected in excess of the UPUS at MW14-4 (formerly MW9-1).

Modeling results were used in support of the PSRA and concluded that risks associated with non-consumptive use of site groundwater are less than receptor-specific target cumulative risks and hazards.

In addition, Tetra Tech conducted groundwater modeling at the Property as described in the groundwater modeling report included in Appendix I. Modeling results indicate that under present site conditions the COCs would take hundreds to thousands of years to arrive at the off-site receptor locations. The concentrations of arsenic and TCE are not predicted to exceed UPUS at the off-site receptor locations.

The predicted concentrations of COCs are likely overestimated. The modeling did not account for geochemical effects on arsenic fate and transport, which would likely reduce concentrations in groundwater and limit migration towards receptors. Similarly, the modeling disregarded biodegradation that would likely reduce concentration of TCE over time. This information confirms compliance with the UPUS at the Property boundary in accordance with OAC 3745-300-07(I)(1)(b).

5.0 REPORT LIMITATIONS

Limitations experienced in the conduct of this investigation included the tight schedule and critical timing associated with the Property transaction. In addition, the thickness of the concrete floor in the main plant prevented the collection of intrusive soil samples in the sub-basement area of “the marriage station” wastewater conveyance sump in the main plant. Sampling points placed immediately outside the external wall of the main plant were used in conjunction with geophysical technical to evaluate the feature. The combination of investigative techniques employed to address this issue has satisfactorily resolved this IA.

6.0 REFERENCES

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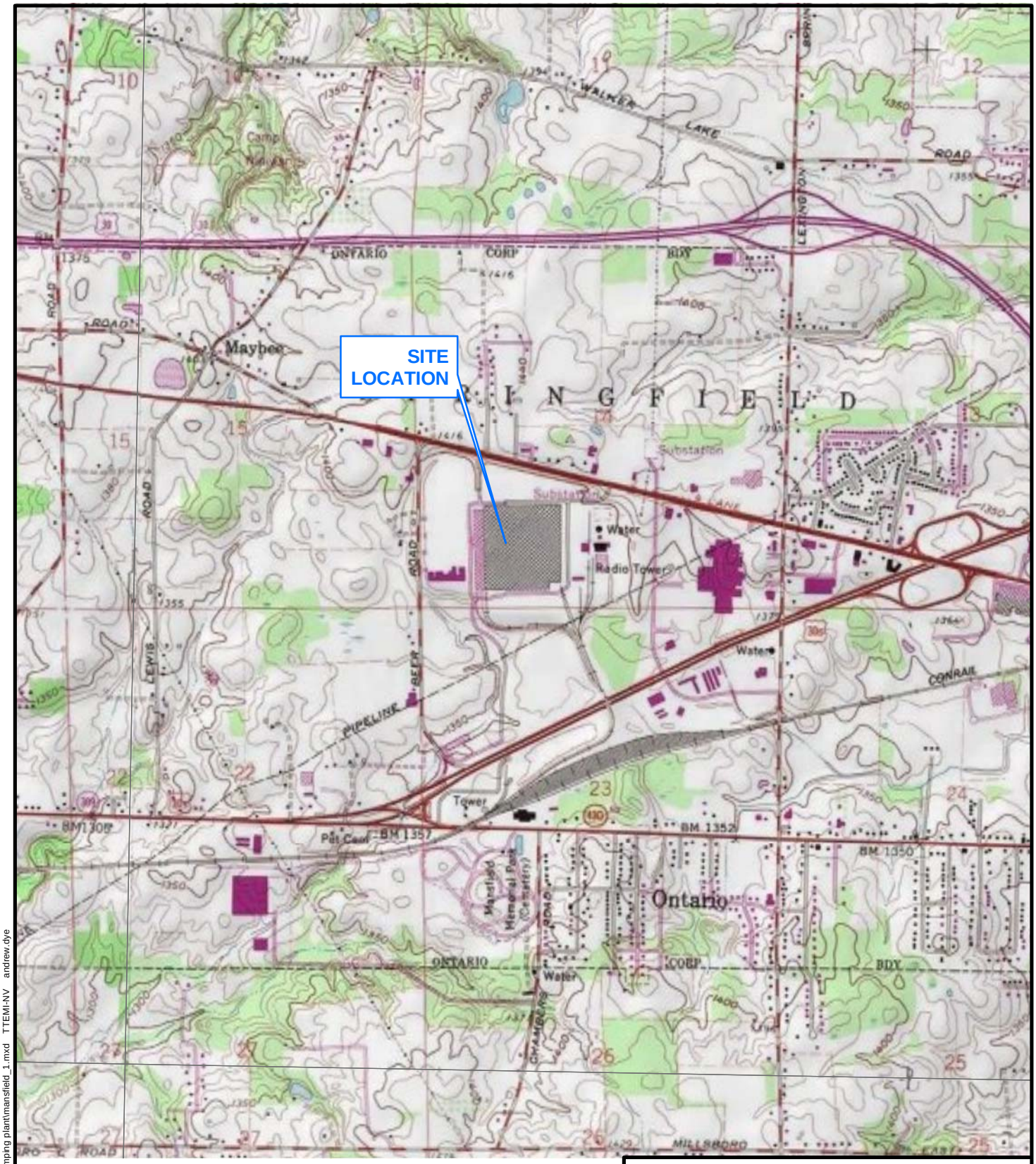


N
W E
S

0 1,000 2,000 Feet

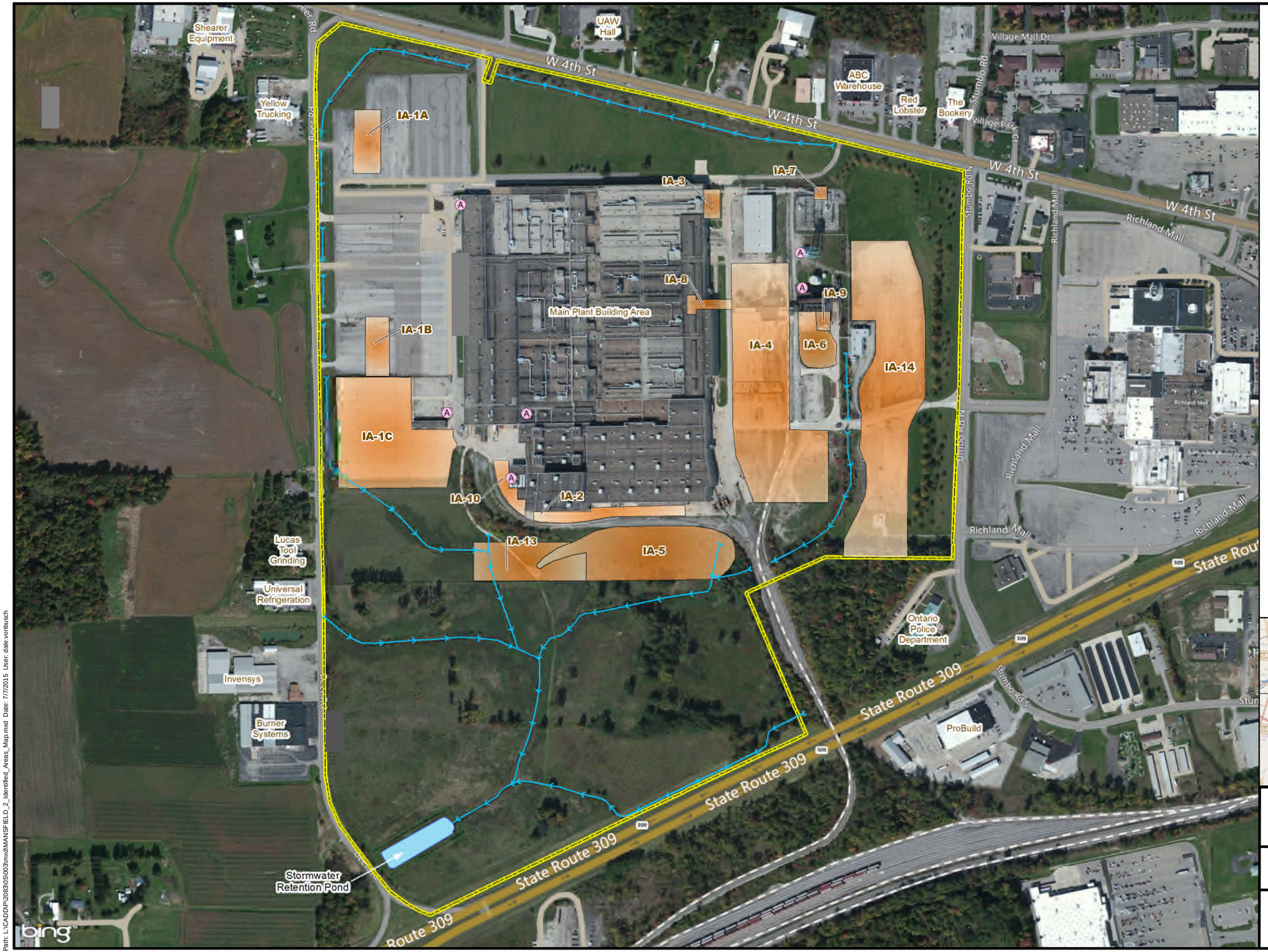
SOURCE: MODIFIED FROM USGS, MANSFIELD NORTH, OHIO QUADRANGLE DATED,1983.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 1
SITE LOCATION MAP

TETRA TECH

2011-01-18 s:\cadd\s1714\01 - mansfield stamping plant\mansfield_1.mxd TTEMI-NV andrew.dye



Legend

- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary
- Stormwater Retention Pond

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 250 500
Feet

Notes
IA-11 and IA-12 were excluded.
IA-12 is not displayed since it is found throughout the building.

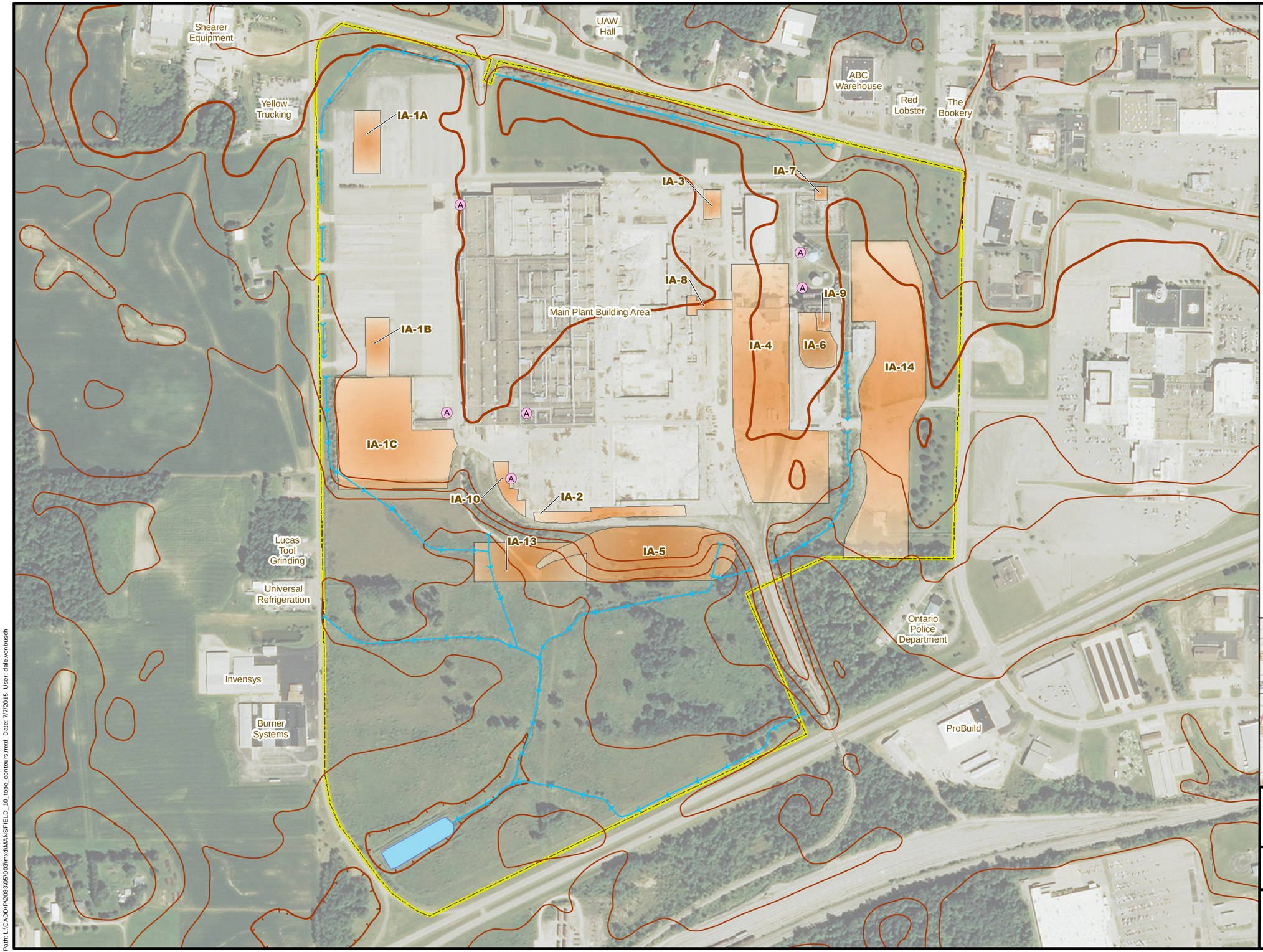
Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 2A
IDENTIFIED AREAS MAP

TETRA TECH

Path: L:\CADD\P\20830\05\003\mxd\MANSFIELD_2_Identified_Areas_Map.mxd Date: 7/7/2015 User: dale.vonbusch



Legend

- Aboveground Storage Tank
- Stormwater Pathway

Topographic Contours

- Approximate Index Line
- Approximate Depression Index Line
- Approximate Intermediate Line
- Approximate Depression Intermediate Line
- Identified Areas
- Approximate Site Boundary
- Stormwater Retention Pond

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 250 500
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.
USGS 7.5 minute Topographic Quadranlges.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 2B
TOPOGRAPHIC CONTOUR MAP

TETRA TECH

Path: L:\CADD\P2083\05\003\mxd\MANSFIELD_10_topo_contours.mxd Date: 7/7/2015 User: dale.vonbusch

Legend

- Soil Sample
- Sediment Sample
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 100 200
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3A
IAs AND SAMPLING LOCATIONS - NORTHEAST

TETRA TECH

Path: L:\CADD\P\2083\05\003\mxd\MANSFIELD_3A_IAs-Sampling_Northeast.mxd Date: 7/7/2015 User: dale.vonbusch

Legend

- Soil Sample
- Sediment Sample
- Landfill Soil Sample
- Test Pit
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area

N
W E
S

0 75 150
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3B
IAs AND SAMPLING LOCATIONS - S. CENTRAL

TETRA TECH

Path: L:\CADD\P2083\05\003\mxd\MANSFIELD_3B_IAs-Sampling_S-Central.mxd Date: 7/7/2015 User: dale.vonbusch

Legend

- Soil Sample
- Sediment Sample
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-8	Stained Flooring/Sumps/Floor Drains
IA-10	Hazardous Waste Storage Area

N
W E
S

0 125 250
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3C
IAs AND SAMPLING LOCATIONS - N. WEST

TETRA TECH

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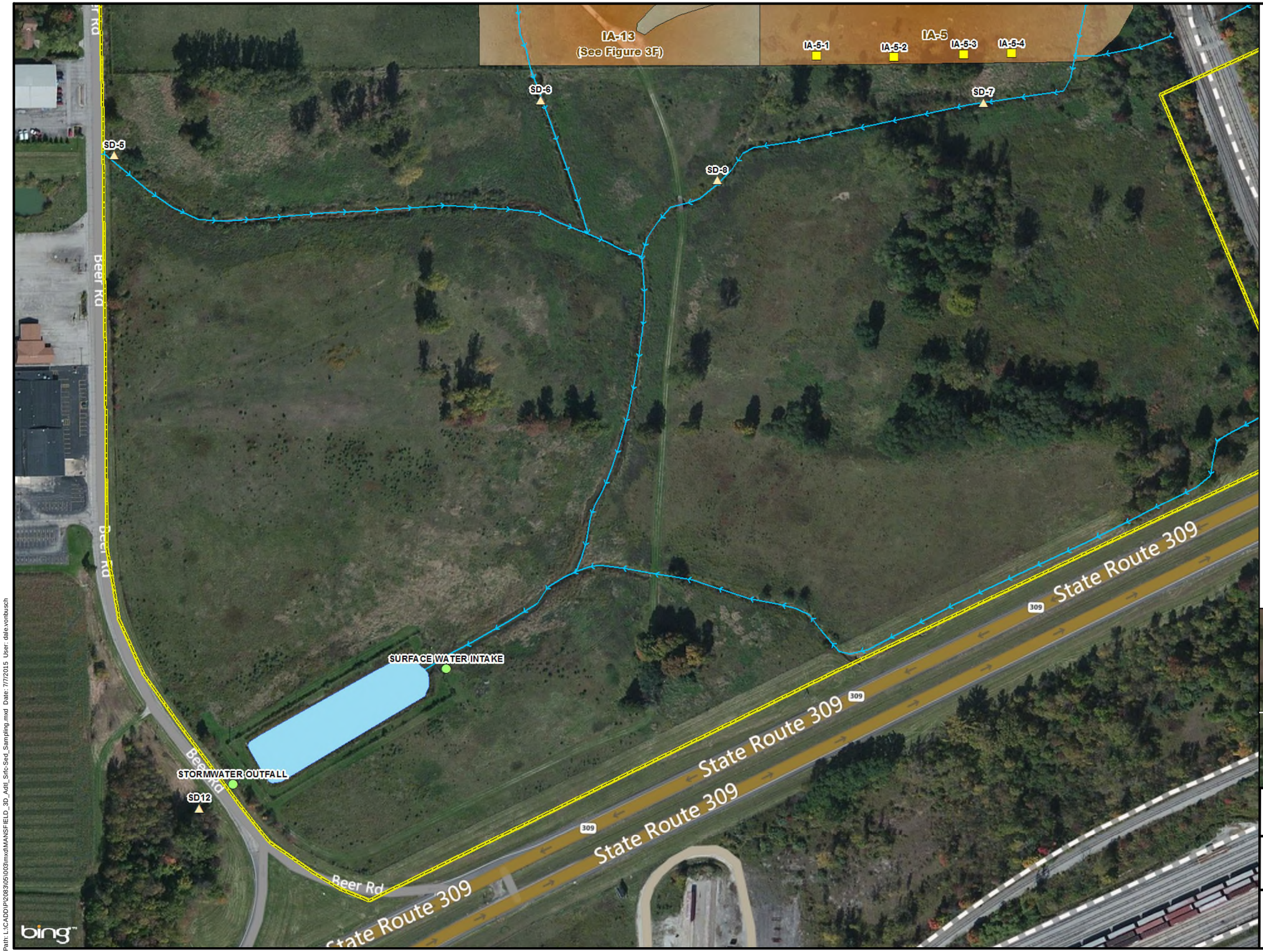

Legend

- Soil Sample
- Sediment Sample
- Surface Water Intake Sample
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary
- Stormwater Retention Pond

Area Number	Area Name
IA-5	Soil Pile/Slope Fill Area
IA-13	South Field Lower Terrace Fill Area

N
W E
S

0 100 200
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3D
SOIL, SEDIMENT & SURFACE
WATER SAMPLING LOCATIONS
SOUTH FIELD - LOWER TERRACE

TETRA TECH

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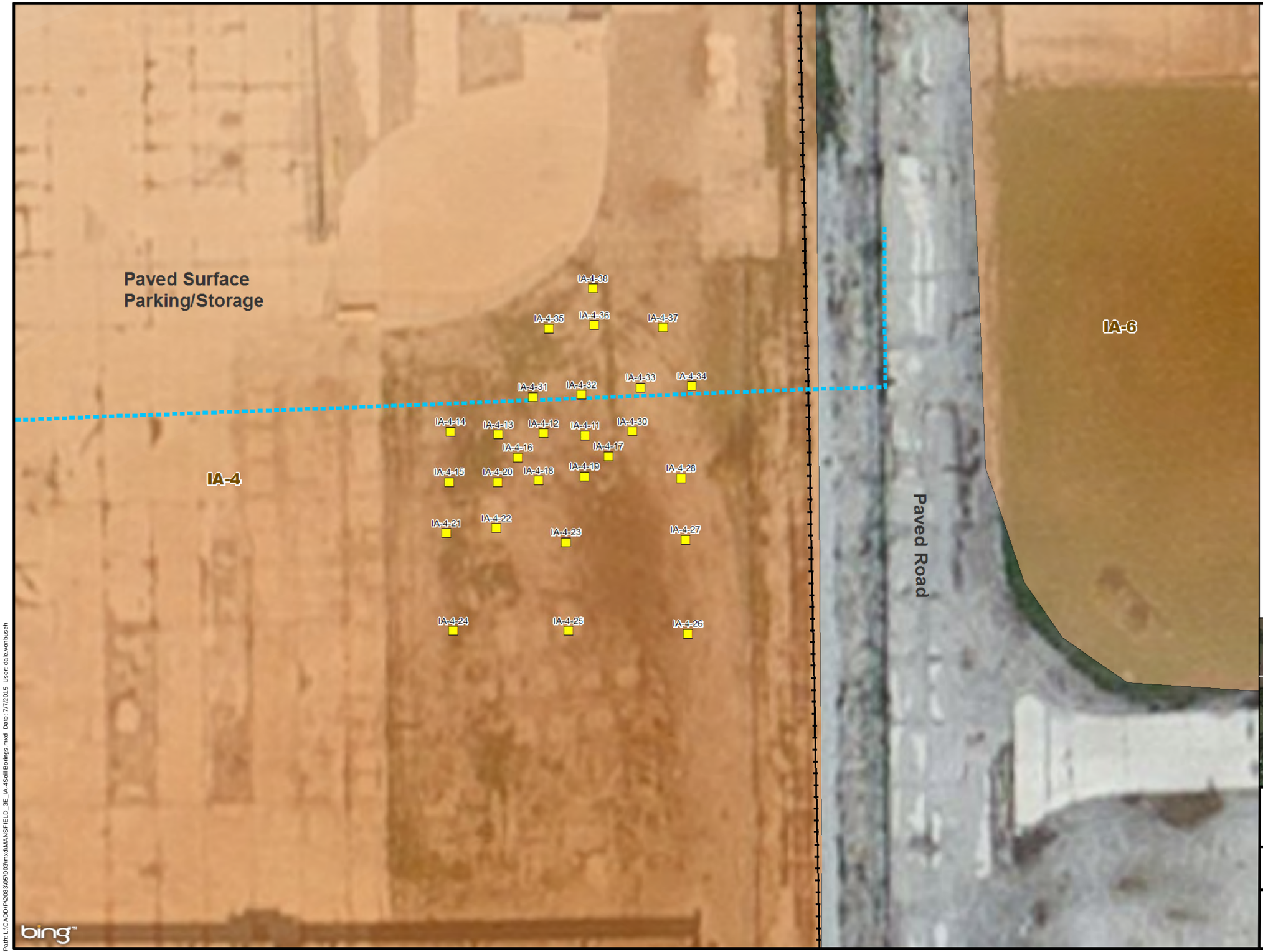

Legend

- IA-4 Boring Location
- Railroad
- Water Line
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-4	Former WWTP
IA-6	Coal/Raw Material Storage Area

N
W E
S

0 15 30
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3E
IA-4 BORING LOCATIONS

TETRA TECH

Path: L:\CAD\DP\2083\05\003\mxd\MANSFIELD_3E_IA-4Soil Borings.mxd Date: 7/7/2015 User: dale.vonbusch

IA-2

IA-5

IA-13

IA-13-19
IA-13-20
IA-13-27
IA-13-18
IA-13-22
IA-13-11
IA-13-1
IA-13-6
IA-13-5
IA-13-12
IA-13-10
IA-13-2
IA-13-23
IA-13-26
MW-5-1
IA-13-28
IA-13-29
IA-13-30
IA-13-31
IA-13-17
IA-13-13
IA-13-9
IA-13-7
IA-13-4
IA-13-8
IA-13-3
IA-13-14
IA-13-24
IA-13-16
IA-13-15
IA-13-25
IA-13-32

Legend

- Monitoring Well Location
- Soil Sample
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-5	Soil Pile/Slope Fill Area
IA-13	South Field Lower Terrace Fill Area

N
W E
S

0 25 50
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3F
IAs AND SAMPLING LOCATIONS - S. TERRACE

TETRA TECH

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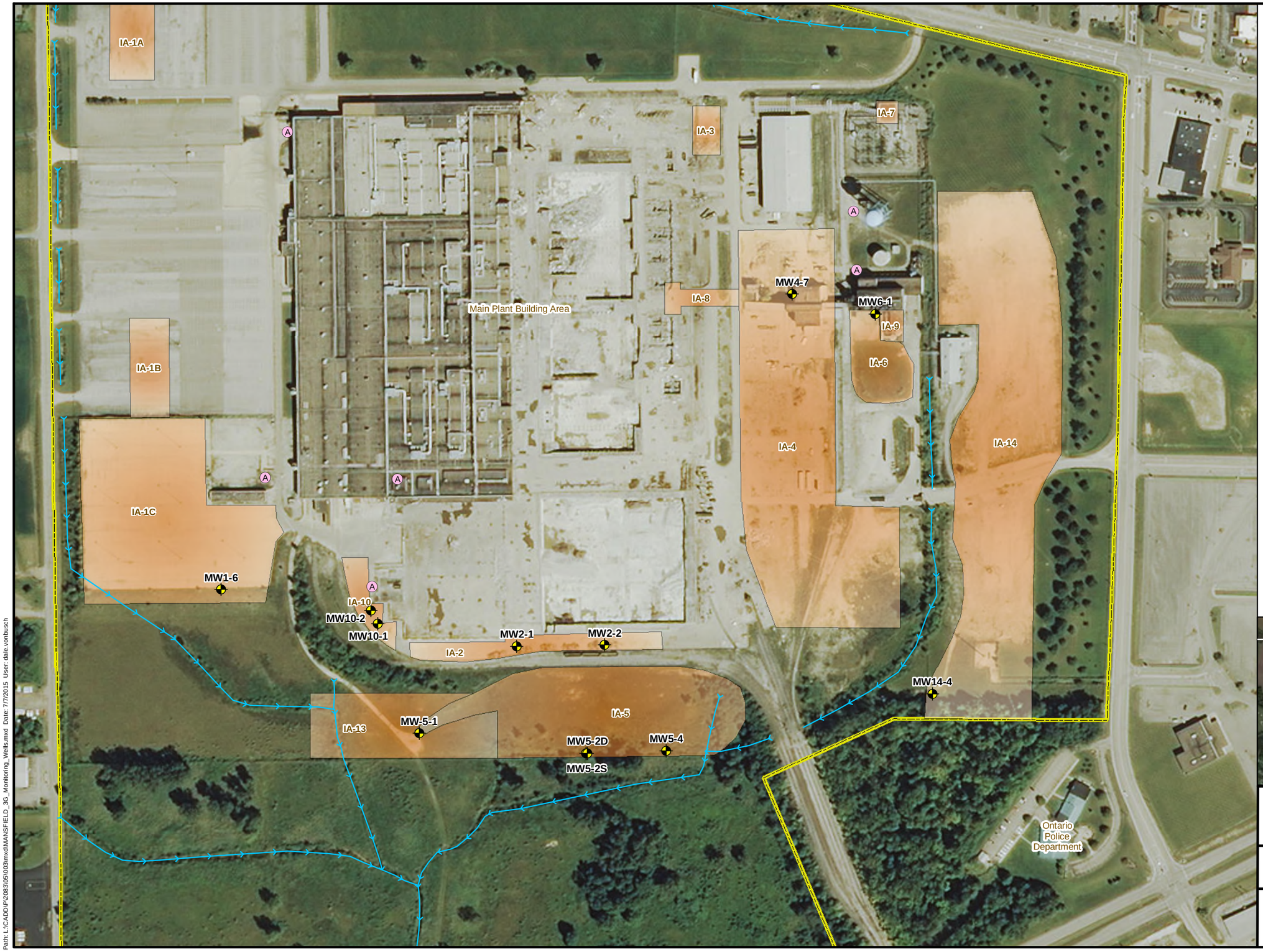

Legend

- Monitoring Well Location
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 150 300
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 3G
MONITORING WELL LOCATIONS

TETRA TECH

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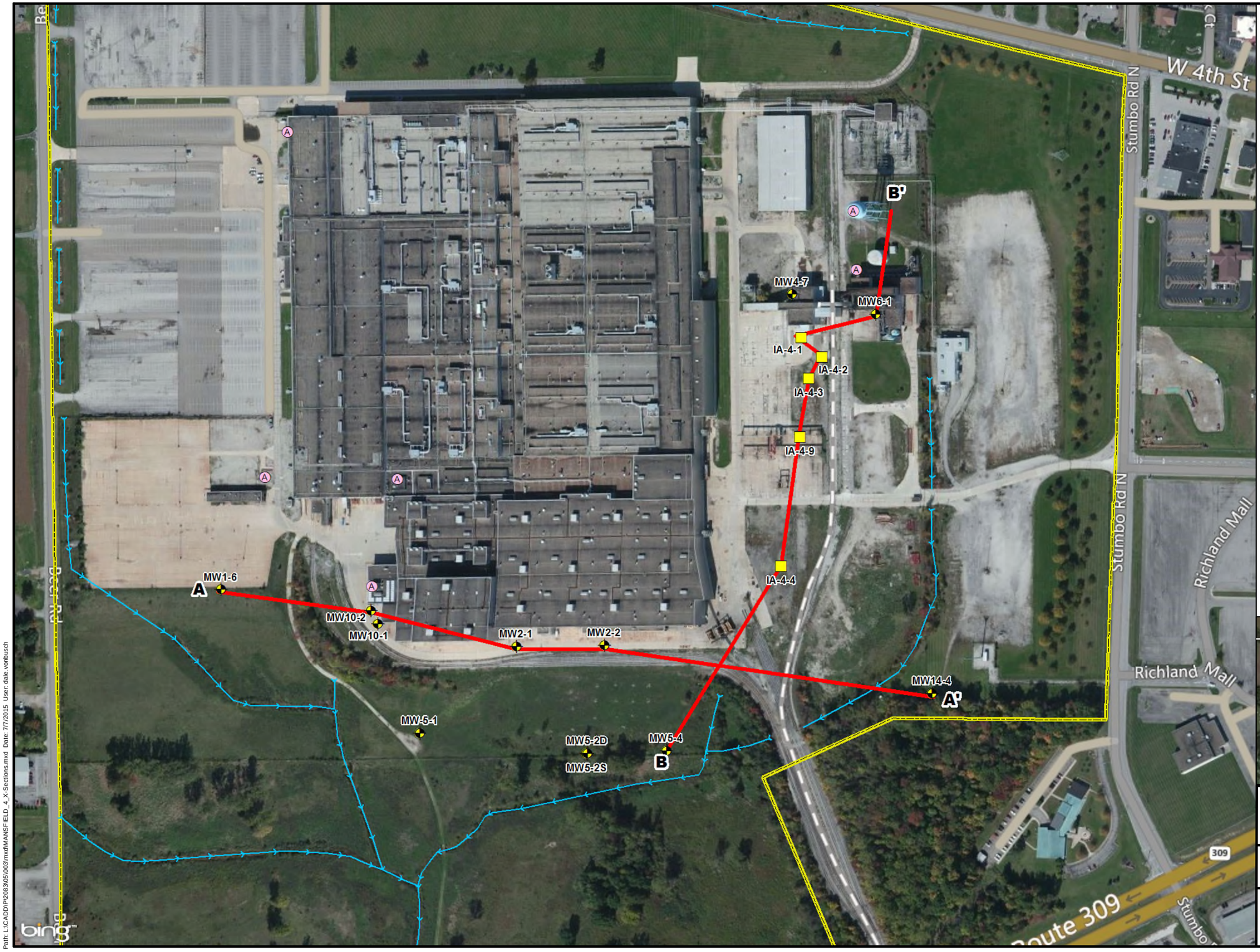


Legend

- Monitoring Well Location
- Soil Boring
- Aboveground Storage Tank
- Line of Section
- Stormwater Collection System
- Approximate Site Boundary

N
W E
S

0 150 300
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

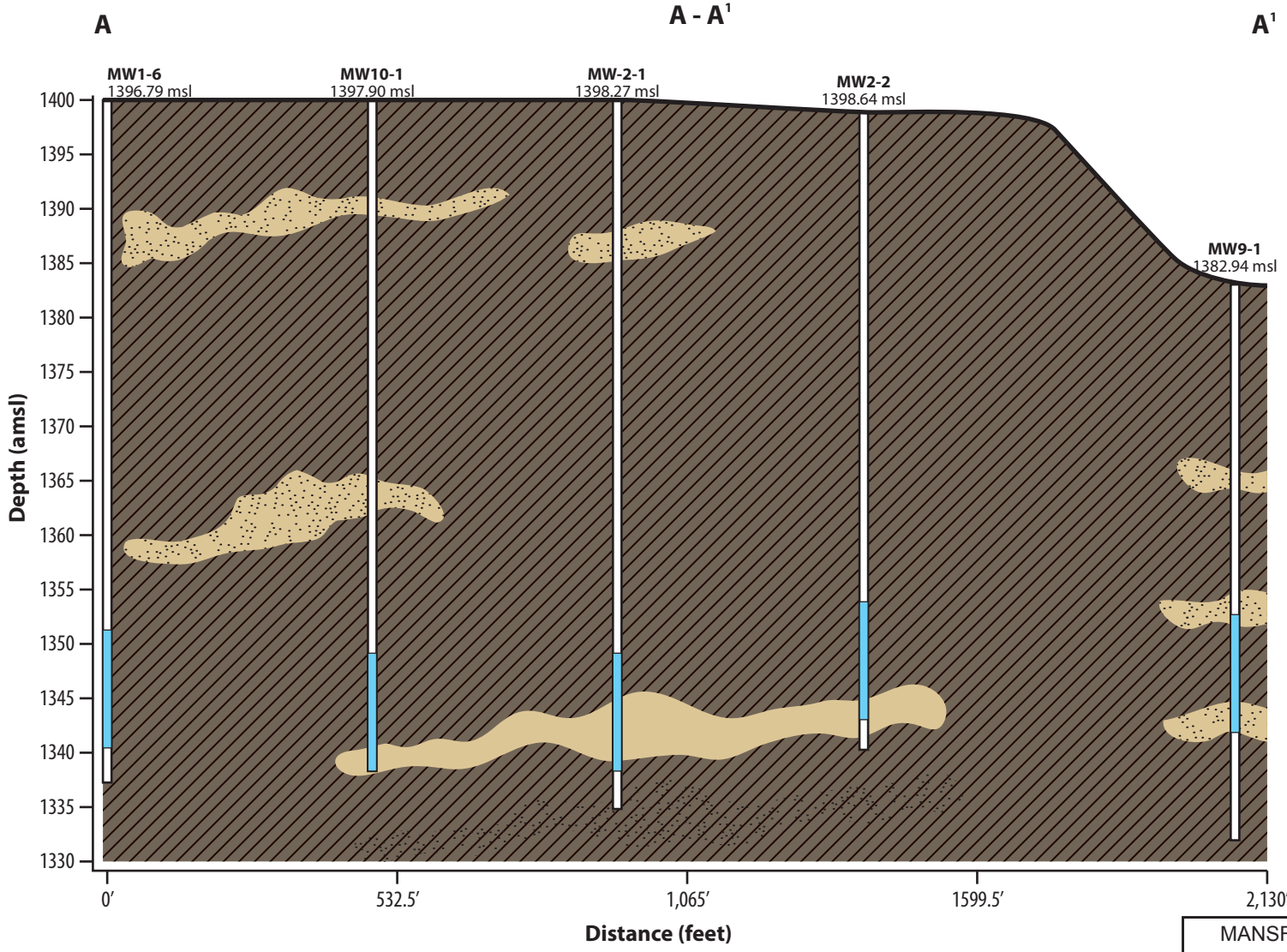
MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 4
GEOLOGIC LINES OF SECTION

TETRA TECH

Path: L:\CADD\P\2083\05\003\mxd\MANSFIELD_4_X-Sections.mxd Date: 7/7/2015 User: dale.vonbusch

GENERALIZED CROSS SECTION
A - A^1



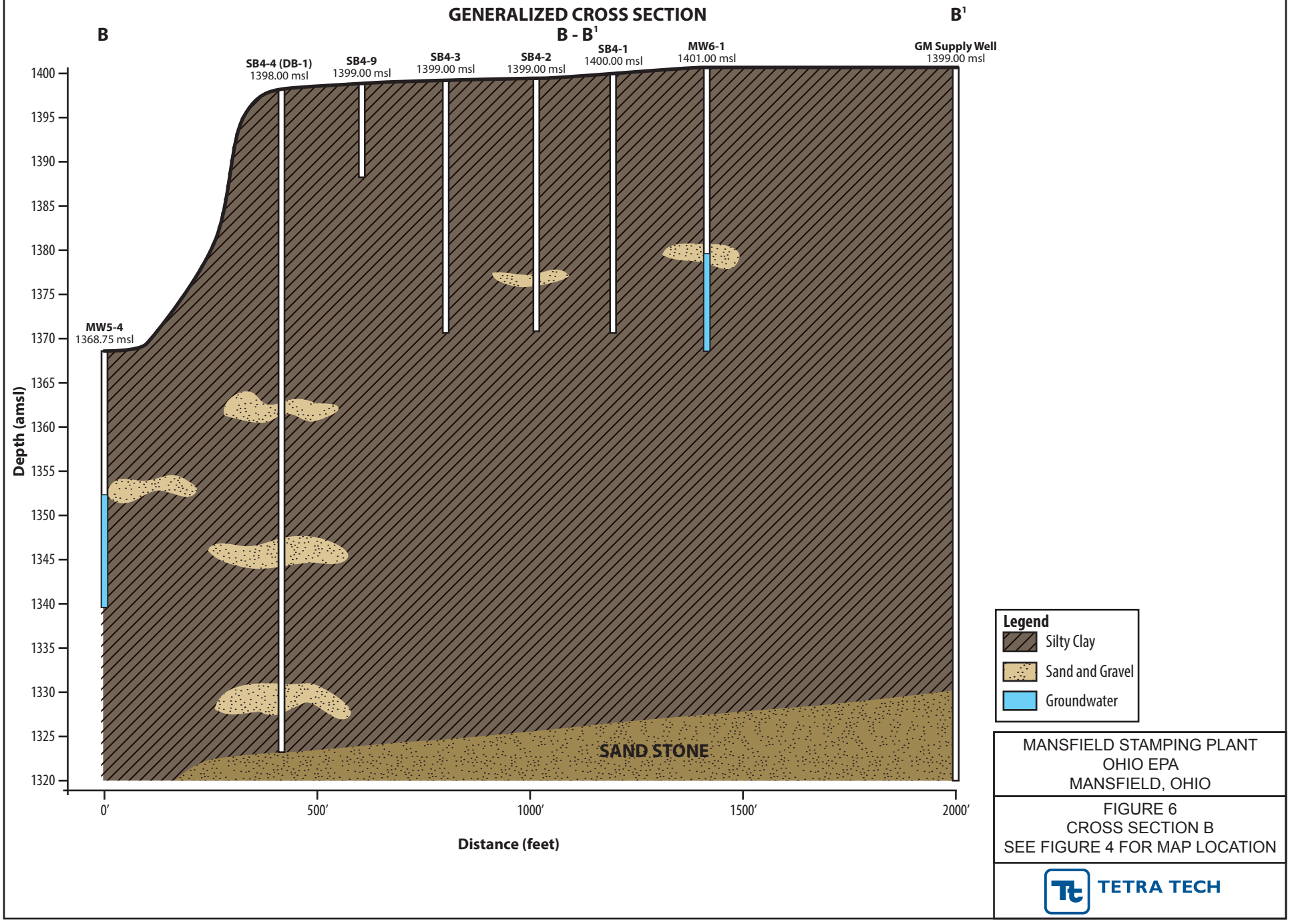
Legend

- Silty Clay
- Sand and Gravel
- Groundwater

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 5
CROSS SECTION A
SEE FIGURE 4 FOR MAP LOCATION

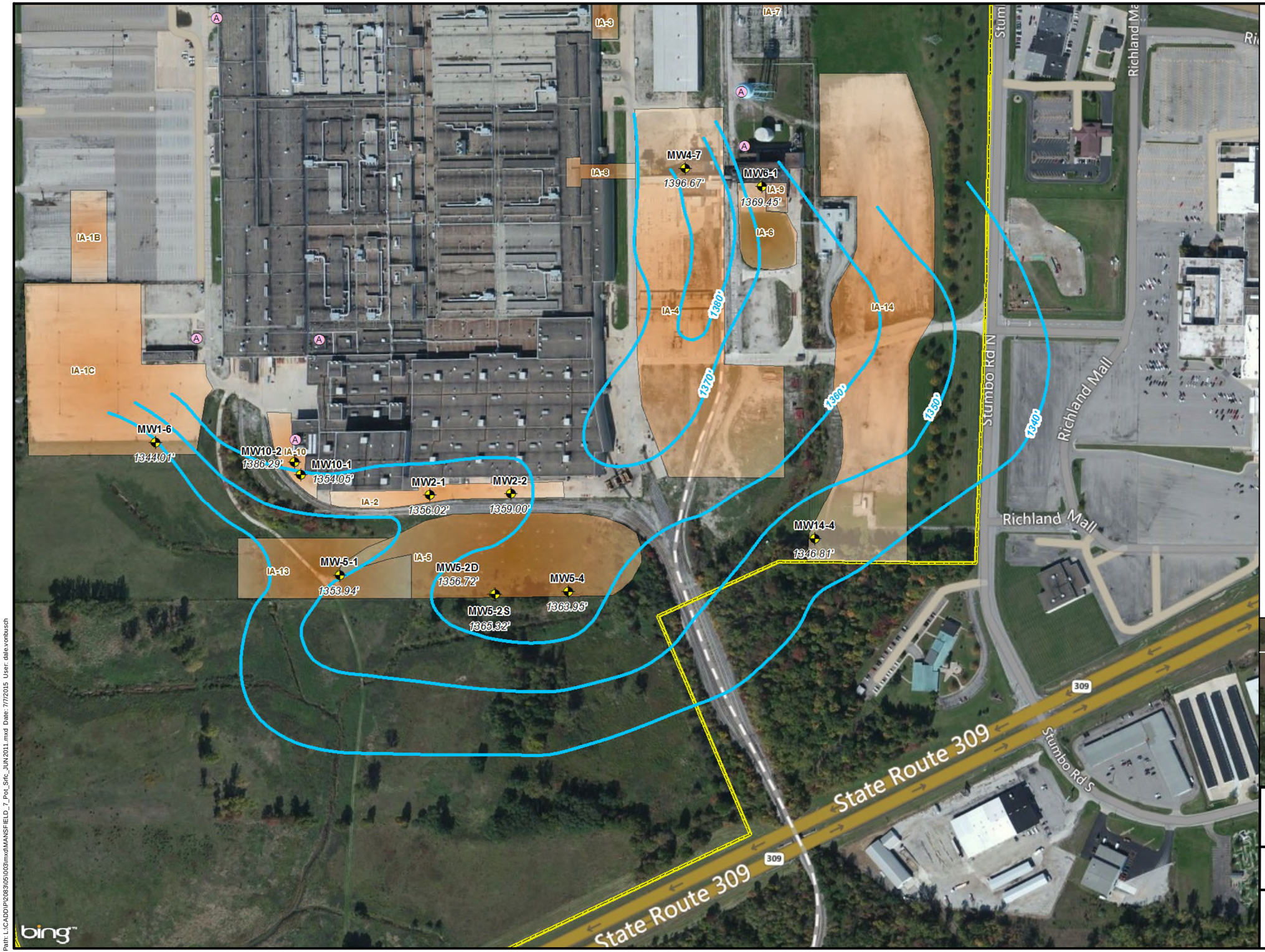
TETRA TECH



MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 6
CROSS SECTION B
SEE FIGURE 4 FOR MAP LOCATION

TETRA TECH



Legend

- Monitoring Well Location
- Aboveground Storage Tank
- Potentiometric Contour
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 150 300
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 7
PIEZOMETRIC MAP - 6/1/11

TETRA TECH

Path: L:\CAD\DP\2083\05\003\mxd\MANSFIELD_7_Pot_Srfc_JUN2011.mxd Date: 7/7/2015 User: dale.vonbusch

IA-4-1

IA-4-31 (0-2')	
Benzo(a)anthracene	200
Benzo(a)pyrene	160
Dibenz(a,h)anthracene	15
Indeno[1,2,3-cd]pyrene	72

IA-4-12 (0-2')	
Benzo(a)anthracene	121.0
Benzo(a)pyrene	93.2
Benzo(b)fluoranthene	100.0
Dibenz(a,h)anthracene	20.9
Indeno(1,2,3-cd)pyrene	59.4

Paved Surfac
Parking/Storage

IA-4-2

IA-4-38

IA-4-35

IA-4-36

IA-4-37 (0-2')	
Benzo(a)pyrene	7.8

IA-4-32

IA-4-33

IA-4-34

IA-4-14

IA-4-11

IA-4-30 (0-2')	
Benzo(a)pyrene	31.7

IA-4-16

IA-4-13 (0-2')	
Benzo(a)pyrene	6.43
IA-4-13 (2'-4')	
Benzo(a)pyrene	6.89

IA-4-15

IA-4-20

IA-4-19

IA-4-28

IA-4-22

IA-4-21

IA-4-23

IA-4-27

IA-4-17 (0-2')	
Benzo(a)anthracene	108
Benzo(a)pyrene	87.1
Benzo(b)fluoranthene	89.2
Dibenz(a,h)anthracene	19.0

IA-4-24

IA-4-25

IA-4-26

IA-4-18 (0-2')	
Benzo(a)anthracene	62.1
Benzo(a)pyrene	46.7
Dibenz(a,h)anthracene	7.98

IA-4-3 (2.5'-5')	
Benzo(a)anthracene	230
Benzo(a)pyrene	190
Benzo(b)fluoranthene	210
Dibenz(a,h)anthracene	34
Indeno[1,2,3-cd]pyrene	93

Paved Road

IA-6-3

IA-6-4

IA-6-5

IA-6-7

Legend

IA-4 Soil Boring

- PAH Exceeds Generic Numerical Standard
- PAH Below Generic Numerical Standard
- Railroad
- Water Line
- Road/Paved Edge
- Corrective Action/Removal Area to 5 feet below ground surface
- Approximate Site Boundary

N
W E
S

0 15 30
Feet

Notes:
VAP - Ohio Voluntary Action Program
Results provided in milligrams per kilogram (mg/kg)

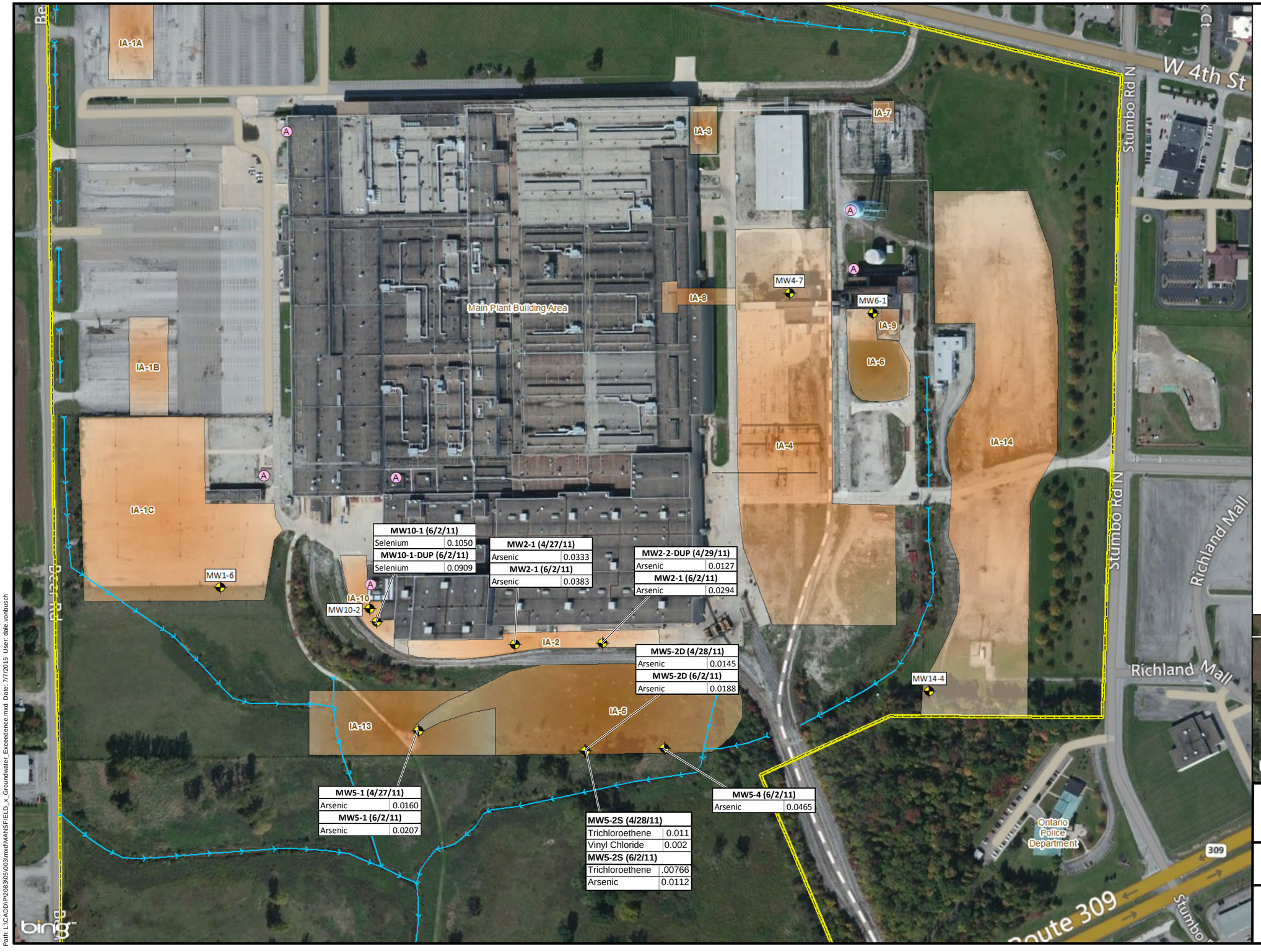
Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 8
SOIL EXCEEDENCES OF OHIO
VAP STANDARDS

TETRA TECH

Path: L:\CAD\DP\2083\05\003\mxd\MANSFIELD_x_Soil_Exceedence.mxd Date: 7/7/2015 User: dale.vonbusch



Legend

- Monitoring Well Location
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 150 300
Feet

Notes:
VAP - Ohio Voluntary Action Program
Results provided in milligrams per liter (mg/L)

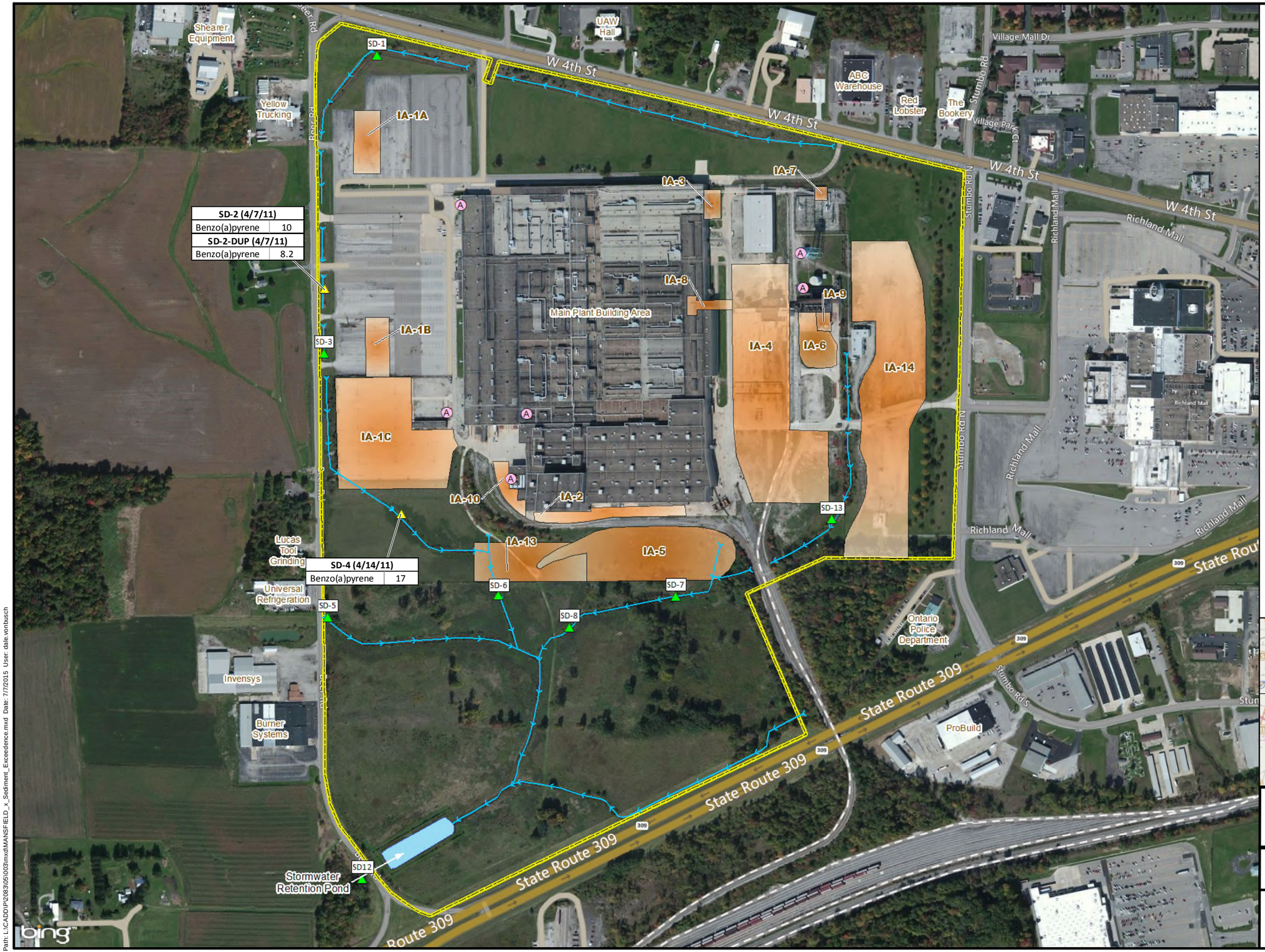
Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 9
GROUNDWATER EXCEEDENCES OF OHIO VAP STANDARDS

TETRA TECH

Path: L:\CADD\PY2083\05\003\mxd\MANSFIELD_x_Groundwater_Exceedence.mxd Date: 7/7/2015 User: dale.vonbusch



Legend

Sediment Sample Location

- PAH Exceeds Threshold
- PAH Below Threshold
- Aboveground Storage Tank
- Stormwater Collection System
- Identified Areas
- Approximate Site Boundary
- Stormwater Retention Pond

Area Number	Area Name
IA-1A	Snow Staging Area
IA-1B	Snow Staging Area
IA-1C	Rack Storage Area
IA-2	Former UST Farm
IA-3	Missing/Misidentified UST
IA-4	Former WWTP
IA-5	Soil Pile/Slope Fill Area
IA-6	Coal/Raw Material Storage Area
IA-7	Original Switch House
IA-8	Stained Flooring/Sumps/Floor Drains
IA-9	Existing WWTP
IA-10	Hazardous Waste Storage Area
IA-13	South Field Lower Terrace Fill Area
IA-14	Eastern Storage Yard

N
W E
S

0 250 500
Feet

Notes:
VAP - Ohio Voluntary Action Program
Results provided in milligrams per kilogram (mg/kg)

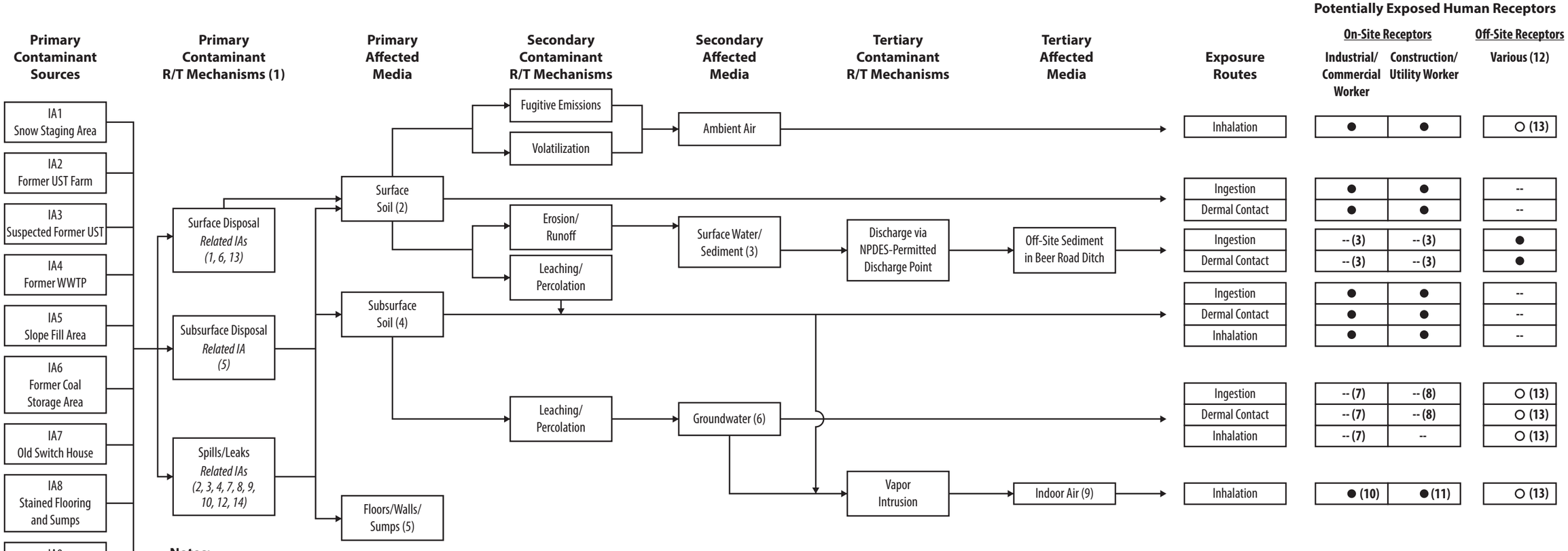
Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 10
SEDIMENT EXCEEDENCES OF OHIO VAP STANDARDS

TETRA TECH

Path: L:\CADD\P\2083\05\003\mxd\MANSFIELD_x_Sediment_Exceedence.mxd Date: 7/7/2015 User: dale.vonbusch



Notes:

ACBM = Asbestos containing building materials
bgs = Below ground surface
EPA = U.S. Environmental Protection Agency
GNS = Generic numerical standards
IA = Investigative area
PCB = Polychlorinated biphenyls
R/T = Release/transport
UST = Underground storage tank
VAP = Voluntary action program
WWTP = Wastewater treatment plan
● = Potentially complete exposure pathway – retain for quantitative analysis
○ = Potentially complete but insignificant pathway-- will not be retained
-- = Incomplete exposure pathway -- will not be retained

1. It is understood that contaminants may have been released to the environment via multiple R/T mechanisms. However, for the purposes of the property-specific risk assessment, each of the IAs was sorted by primary contaminant R/T mechanism
2. Contaminants exceeded GNS values in surface soil (0 to 2 ft bgs) only at IA4 (See Appendix G).
3. The on-site surface drainage system discharges to the city sewer system along Beer Road in the southwest corner of the property. This discharge is covered by National Pollutant Discharge Elimination System (NPDES) permit 21S000454GD. As a result, issues related to stormwater discharge and the surface water /sediment upgradient of the discharge point fall under the purview of the NPDES permit and are therefore, not eligible for inclusion in the VAP. However, contaminated sediments may have been transported off-site through the NPDES discharge point. Therefore, potential exposures by human and ecological receptors to off-site sediment in the Beer Road ditch were evaluated.
4. Contaminants exceeded GNS values in subsurface soil (0 to 10 ft bgs) only at IA4 (See Appendix G).
5. Issues related to potential contamination in IA-7, IA-8, and IA-12 were satisfactorily resolved . Therefore these IAs were not evaluated in the PSRA.
6. Chemical concentrations exceeding GNS values were measured only in grab groundwater samples collected from soil borings at IA4 and in monitoring wells associated with IA5 (See Appendix G).
7. The shallow aquifer at the RACER site is classified as Class "B" groundwater. Therefore, consistent with the Ohio VAP (see 3745-300(F)(7)(d) and 3745-300-10(B)(2)(c)(i) and Ohio EPA(2009)), potential potable use of the shallow aquifer is considered to be incomplete and was not quantified in the property-specific risk assessment.
8. As stated in footnote 5, chemical concentrations exceeding GNS values were measured only at IAs 4 and 5. IA4 is located on the upper terrace and IA5 on the lower terrace at the site. The depths to groundwater at the upper and lower terrace are 25 to 35 ft bgs and 12 to 15 feet bgs, respectively. Because construction trenches are typically < 10 ft bgs in depth, groundwater is not expected to enter trenches constructed in either IA4 and IA5. Therefore, no direct exposure (ingestion and dermal contact) is assumed in either IA4 and IA5.
9. Volatile chemicals were measured in monitoring wells associated with the following IAs: 2, 4, 5, 10, and 14.
10. Exposure point concentrations (EPC) for indoor air were modeled from soil and groundwater concentrations using EPA's Johnson and Ettinger SL-ADV and GW-ADV models respectively (EPA 2004a, 2004b) and EPA's Vapor Intrusion Screening Level (VISL) Calculator (EPA 2014).
11. EPCs for air in a construction or utility trench will be calculated using the methodology presented in Virginia Department of Environmental Quality's Voluntary Remediation Program Risk Assessment Guidance (VDEQ 2014).
12. Human off-site receptors may include primarily residents and commercial/industrial workers. A variety of ecological receptors including various birds, mammals, amphibians, and invertebrates may also be exposed to sediments in the off-site Beer Road Ditch.
13. Potential off-site exposures are expected to be potentially complete, but insignificant and were not quantified. The single exception is potential recreational exposures to off-site sediment in the Beer Road Ditch beyond the NPDES discharge point.

MANSFIELD STAMPING PLANT

FIGURE 11
CONCEPTUAL SITE MODEL

TETRA TECH

Paved Surface
Parking/Storage

Paved Road

IA-4-38
IA-4-35
IA-4-36
IA-4-37
IA-4-31
IA-4-32
IA-4-33
IA-4-34
IA-4-14
IA-4-13
IA-4-12
IA-4-11
IA-4-30
IA-4-16
IA-4-17
IA-4-15
IA-4-20
IA-4-18
IA-4-19
IA-4-28
IA-4-21
IA-4-22
IA-4-23
IA-4-27
IA-4-24
IA-4-25
IA-4-26

Legend

IA-4 Soil Boring

- PAH Exceeds Generic Numerical Standard
- PAH Below Generic Numerical Standard
- Railroad
- Water Line
- Road/Paved Edge
- Corrective Action/Removal Area to 5 feet below ground surface
- Approximate Site Boundary

N
W E
S

0 15 30
Feet

Map Source:
Bing Maps Aerial Imagery, 2010-2012.

MANSFIELD STAMPING PLANT
OHIO EPA
MANSFIELD, OHIO

FIGURE 12
IA-4 CORRECTIVE ACTION AREA
0 TO 5 FEET

TETRA TECH

Path: L:\CADD\P2\2083\05\003\mxd\MANSFIELD_9_IA-4_Corrective_Action.mxd Date: 7/7/2015 User: dale.vonbusch

Appendix A

Phase I PA Update

AMMENDMENT
OHIO VAP PHASE I ENVIRONMENTAL SITE ASSESSMENT

Mansfield Stamping Plant
2525 West Fourth Street
Ontario, Ohio 44906

June 3, 2011

Prepared For:

Ohio Environmental Protection Agency
Lazarus Government Center
P.O Box 1049
50 West Town Street, Suite 700
Columbus, Ohio 43216

Prepared By:

Tetra Tech
250 West Court Street, Suite 200W
Cincinnati, Ohio 45202

Tetra Tech Project Number 103S171404

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APPENDIX

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Introduction

This document represents an amendment to the Phase I Environmental Site Assessment (ESA) conducted at the Mansfield Stamping Plant in January, 2011. The update was prepared by Tetra Tech in conjunction with the Phase II Environmental Site Assessment (ESA) Report. The document adheres to requirements set forth in the Voluntary Action Program (VAP) requirements found in the Ohio Revised Code (OAC) 3745-300-06(I)(3) and 3745-300-07(D)(1)(a)(ii).

The Subject Property comprises five parcels of land (0386015206000, 0386015205000, 0386015204000, 0386015202000, and 0386015203000) totaling 266 acres located between West Fourth Street and State Route 309 in Ontario, Richland County, Ohio. The Property is currently owned by the RACER Trust, formerly Motors Liquidation Corporation (MLC). Refer to the original Phase I ESA Report or the Phase II ESA Report for the location of the Property and legal description.

Records Review and Property Reconnaissance

The Phase I ESA was completed January 28, 2011. Less than 180 days have elapsed since the completion of the Phase I ESA. As a result, an updated records review was not completed. However, during the January Phase I ESA site inspection, one structure was inaccessible to Tetra Tech and could not be inspected. The compressor building is owned and maintained by Ingersoll Rand. Tetra Tech returned to the site on May 12, 2011 to complete the inspection of the compressor building.

Property Reconnaissance

Carl Rhodes, a VAP Certified Professional (CP201), visited the Property on March 15th, May 11th and May 12th, 2011 to comply with OAC 3745-300-06(K). On May 12th, Mr. Rhodes inspected the Compressor Building that had previously been inaccessible. Mr. Rhodes was accompanied by Mr. Mike Keller of Ingersoll Rand.

The compressor building is located in the eastern portion of subject property, immediately east of the WWTP. The building is a single story, slab on grade, metal

framed structure. Access to this area of the site is through a fenced gate at the southern end of the building (Photograph 1, Appendix A). Building access is available via: a walk in door and overhead bay door on the southern end of the building; a second bay door on the east side of the building at the northern end; and two additional walking doors on the north and west side of the building.

The building is divided into three distinct areas: 1) the compressor room; 2) the electric room; and, 3) the office and restroom area. The building was purpose built to house three large-scale, industrial air compressors that delivered compressed air to the entire Mansfield facility.

The compressor room (Photograph 2, Appendix A) contains the three water-cooled compressor units, a cooling water treatment system, air drying units (Photograph 3, Appendix A), assorted water quality testing materials, a hazardous/flammable liquids cabinet (Photographs 4& 5, Appendix A), lubricating oils, a large sulfuric acid vessel (now empty but equipped with secondary containment), and a sump used to discharge cooling water (Photograph 6, Appendix A). Water collected in the sump is transferred to the WWTP using a submersible pump (Photograph 7, Appendix A). Photograph 8 (Appendix A) illustrates the former Sulfuirc Acid vessel and several 55-gallon drums of lubricating oil.

The electric room occupies the northern end of the building and houses electrical equipment associated with the compressors and associated equipment. Due to the scale of the equipment used in the compressor building, Ingersoll-Rand requires in excess of 250,000 watts of power to operate the facility. According to Mr. Keller, none of the transformers or other electrical equipment in this area contains PCBs.

The office/restroom is located in a small area west of the electric room. The office contains work stations, desk top computers, a copier and other office supplies and materials. The southern portion of the area contains a restroom.

Hazardous Substances, Petroleum Products, and Containers

The hazardous/flammable liquids cabinet in the compressor room contains small quantities of hazardous substances. Substances observed in the cabinet were stored neatly and did exhibit evidence of leakage (Photograph 7, Appendix A). They include the following:

- Five one-gallon paint cans
- One three-gallon gasoline can
- One five-gallon gasoline can
- A variety of aerosol cans containing spray paint, cleaning solutions, WD-40 lubricant, and contact cleaner
- PVC cleaning solution and cement
- Lubricating oil
- A one gallon container of methyl-ethyl ketone (MEK)
- Grease and grease guns
- Two five-gallon buckets of lubricating oil

Four 55-gallon drums of lubricating oil for the compressor motors also were observed in this area along with 55-gallon drums of water treatment solution (softener). An empty Nalgene Plastic Tank approximately 200 gallons in capacity was formerly used to store sulfuric acid that was used to adjust the pH of cooling water. The Nalgene tank was located inside a second Nalgene container with an approximate capacity of 300 gallons. Mr. Keller guided Tetra Tech to an outdoor storage area that was formerly used to store sulfuric acid. This area was covered from the weather and also was equipped with secondary containment. Its use was discontinued when the sulfuric tank was moved inside for ease of access.

Pools of Liquid and Odors

Tetra Tech did not observe pools of liquid or odors in the compressor building.

Storage Tanks

Tetra Tech observed only the empty Nalgene tanks described above. No other storage tanks were observed in the compressor building.

PCB - Containing Equipment

Tetra Tech did not observe PCB containing equipment during the site reconnaissance. According to Mr. Keller, transformers in the electric room are “PCB free.”

Solid Waste and Debris Disposal

Tetra Tech did not observe evidence of solid waste or debris disposal during the compressor building site reconnaissance.

Floor Drains, Sumps, Waste Water, and Septic Systems

One floor drain and one sump were observed in the compressor building. The interior floor drain discharges to the sump located in the northwest corner of the compressor room (Photograph 8, Appendix A). The sump discharges directly to the on-site WWTP (Photograph 9, Appendix A).

Stained Soil, Pavement, and Floors

No evidence of stained soil, pavement, or floors was observed in the compressor building.

Pits, Ponds, or Lagoons

No pits, ponds, or lagoons were observed in the compressor building area.

Incinerator

Tetra Tech did not observe evidence of incinerators during the compressor building reconnaissance.

Lead Based Paint and Asbestos

Asbestos was banned from building materials in 1988 and lead based paint was banned in 1977. The compressor building was built in 2000; therefore ACBMs and lead based paint are not a concern.

Adjustments to Identified Areas

While Tetra Tech did not identify additional Identified Areas during the Phase II Assessment, several existing IAs were expanded to cover additional areas of the plant.

A complete list of the IA's identified at the Subject Property can be found in both the Phase I Assessment completed by Tetra Tech in January, 2011, and the Phase II Property Assessment completed by Tetra Tech in June, 2011. The modified areas are as follow:

- IA #1, Snow Staging Area. Initially, two areas of the west parking lot at the plant were identified to be the Snow Staging Area. During the Phase II Assessment, the area was expanded to include the parking lot south of the Rack Wash Building, the ditches along Beer Road, and the drainage ditches on the Property that lead to the Storm Water Retention Pond.
- IA #9, Existing Waste Water Treatment Plant (WWTP). During the Phase II Assessment, it was deemed necessary to evaluate the gravel parking lots to the east of the WWTP. Aerial photographs of the site indicate that various racks and other equipment were stored in the area. Three soil borings were placed in the various gravel lots (SB9-1, SB9-2, and SB9-3) in order to determine the extent of any contamination resulting from the previous use.

The storm water collection and distribution system does not meet VAP eligibility requirements as the system is regulated under an active NPDES Permit.

Phase II Property Assessment

Phase II ESA activities were conducted at the site in conjunction with this Phase I update. The Phase II activities included:

1. advancing twenty seven soil borings with continuous sampling of subsurface soil to depths of ten to fifty five feet below ground surface (bgs), and fifteen soil borings to five feet bgs utilizing a Geoprobe;

2. install twelve groundwater monitoring wells using direct-push technology

3. install four deep borings to depths of 52 to 80 feet bgs using direct push technology

4. conduct continuous sampling and logging of soil cores, and check the soil samples for volatile organic compounds (VOC) using a photoionization detector (PID)

5. collect, at a minimum, one soil sample and one groundwater sample (if encountered) from each boring for submittal to a laboratory for analysis

6. collect and submit for analysis three surface water samples, one from the basement of the switch house and two from the stormwater pond (intake and outfall)

7. collect and submit for analysis eleven sediment samples from drainage ditches throughout the Property

8. collect groundwater samples from the twelve groundwater monitoring wells for laboratory analysis

9. conduct pump tests and recovery tests to determine hydrogeologic properties at the site

10. conduct a geophysical survey using Ground Penetrating Radar (GPR) to identify possible locations of unmarked underground storage tanks, investigation of a potential on-site landfill, and to gauge the integrity of the concrete in the basement of the building where the sumps meet and are networked to the WWTP (known as the “Marriage Station”)

11. conduct PCB wipe sampling at the original Switch House on the Property to gauge the presence of PCBs

12. install test pits to determine contents of the suspected landfill

13. analyze samples of the two types of wood flooring (pecan and pine) present in the main manufacturing plant for TCLP analysis; and

14. review asbestos documentation provided by the trust related to outbuildings, including the powerhouse, new WWTP, old switch house, and rack wash building to identify data gaps and present available data.

The results of the Phase II Assessment indicated the following:

Ohio VAP Generic Direct Contact Soil Standards were exceeded in one Identified Area (IA) at the site, IA#4. Ohio VAP Generic UPUS for groundwater were exceeded in two IAs, IA#5 and IA#9.

Soil

The soil sample yielding the exceedence was collected in the 2.5 to 5.0 foot bgs sample interval at soil boring location SB4-3. A second sample collected from the same location in the 5.0 to 7.0 foot interval indicates decreasing concentrations of COCs, with none of the compounds exceeding the applicable Ohio VAP Direct Contact Soil Standard in that interval. This suggests that the impacted soil is limited to the shallow, near surface horizons in this area.

Groundwater

Laboratory results indicate that COCs was detected in groundwater exceeding applicable VAP Standards at monitoring well location MW-5-2-S. At that location, Trichloroethene (TCE) was detected in excess of the UPUS. Several metals were detected in groundwater samples collected in IA#5 as well, with Arsenic exceeding the VAP Generic UPUS in two of the wells in IA#5. Finally, the UPUS for Selenium was exceeded at MW-10-2.

Appendix A

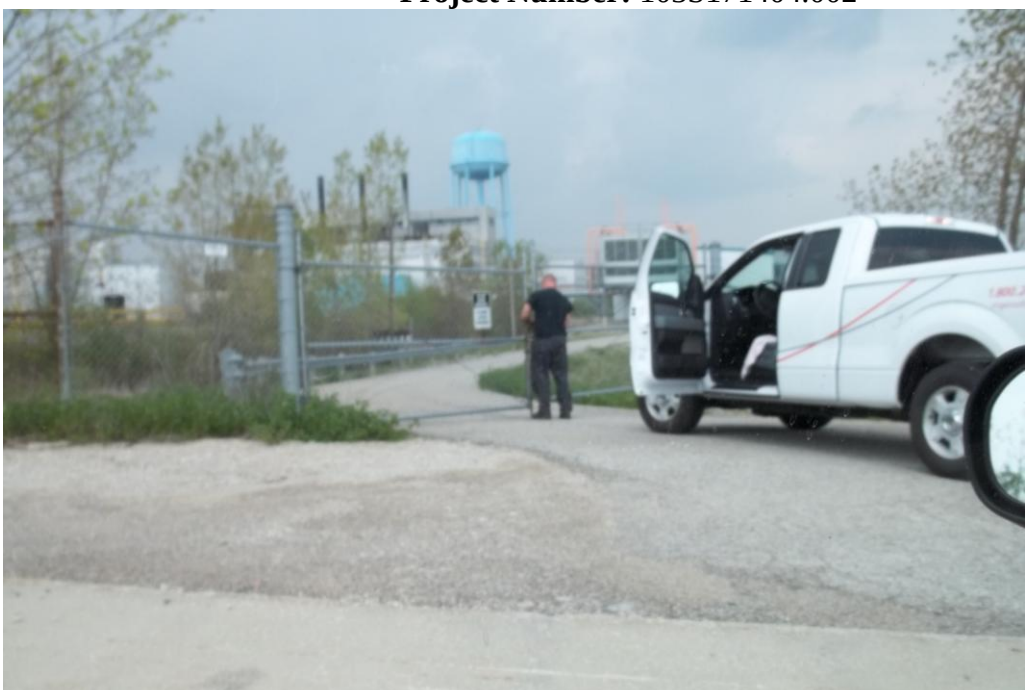
Photographic Log

Photographic Documentation

Client: Ohio EPA
Project: Mansfield Stamping Plant Phase I Update
Photograph Date:
Photograph No. 1

Prepared by: Tetra Tech
Photographer: Carl Rhodes
Project Number: 103S171404.002

Direction: North



Description: Gate restricting access to the compressor building. Taken May 12 by Carl Rhodes.

Photograph No. 2

Direction: N/A

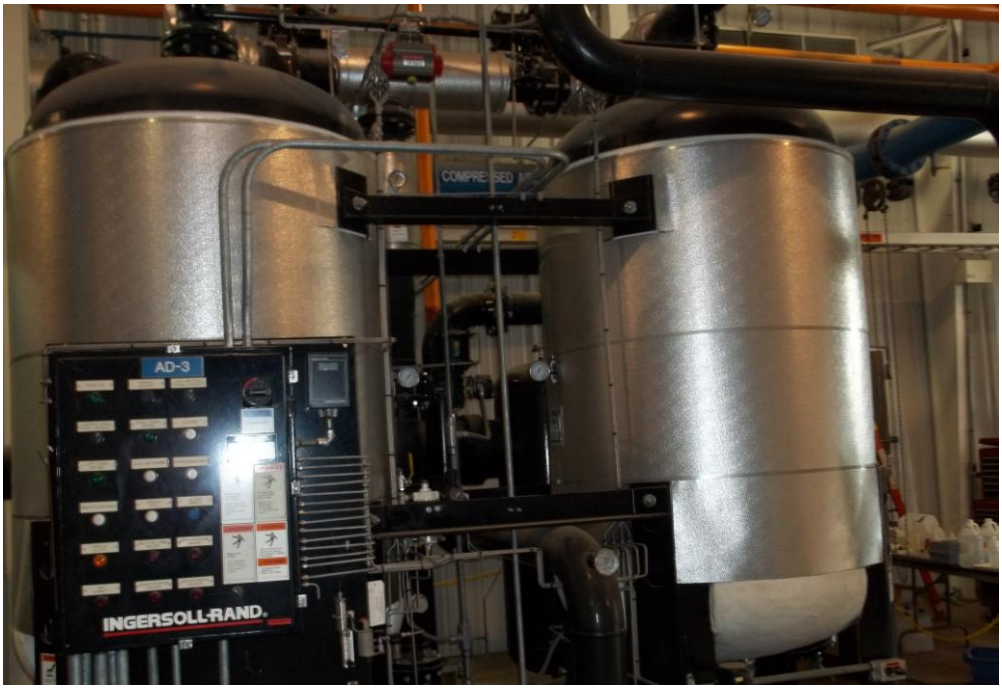
Description: Interior view of the compressor room within the compressor building. Note three large blue compressor units on the left.
Taken May 12 by Carl Rhodes.

Client: Ohio EPA
Project: Mansfield Stamping Plant Phase I Update
Photograph Date:

Prepared by: Tetra Tech
Photographer: Carl Rhodes
Project Number: 103S171404.002

Photograph No. 3

Direction: N/A



Description: Air drying units in the compressor room treat compressed air prior to transport to the main plant building Taken May 12 by Carl Rhodes.

Photograph No. 4

Direction: N/A

Description: Flammable liquids cabinet observed in the compressor room. Taken May 12 by Carl Rhodes.

Client: Ohio EPA
Project: Mansfield Stamping Plant Phase I Update
Photograph Date:

Prepared by: Tetra Tech
Photographer: Carl Rhodes
Project Number: 103S171404.002

Photograph No. 5

Direction: N/A

Description: Materials stored in the flammable liquids cabinet observed in the compressor room. Taken May 12 by Carl Rhodes.

Photograph No. 6

Direction: N/A

Description: Sump serving the compressor building collects condensate and process water for transport to the WWTP. Taken May 12 by Carl Rhodes.

Client: Ohio EPA
Project: Mansfield Stamping Plant Phase I Update
Photograph Date:

Prepared by: Tetra Tech
Photographer: Carl Rhodes
Project Number: 103S171404.002

Photograph No. 7

Direction: N/A

Description: Exterior transfer pump used to transfer compressor building waste water from the sump to the WWTP. Taken May 12 by Carl Rhodes.

Photograph No. 8

Direction: N/A

Description: Former Sulfuric Acid vessel in the compressor room. Also note the blue 55-gallon drums of lubricating oil and secondary recovery pallets. Taken May 12 by Carl Rhodes.

Appendix B

TA Summary of Ground Water Compliance Issues Deemed Satisfactory

ATTACHMENT A

OAC Rule 3745-300-01(A)(60) and 3745-300-07(F)(6) - DEFINITION OF GROUND WATER

Sections 3.6.2 and 3.6.3 of the Phase II assume that the saturated horizons that comprise the unconsolidated ground water zone meet the definition of ground water in accordance with the above rules.

OAC Rule 3745-300-07(F)(6), (F)(8) - DETERMINATION OF GROUND WATER YIELD

Sections 3.3 and 3.6.5 and Appendix D of the Phase II contain an adequate amount of data to determine a representative yield of the unconsolidated ground water zone.

OAC Rule 3745-300-07(F)(2) - DETERMINATION OF WHETHER THE PROVISIONS FOR PROTECTING GROUND WATER MEETING UNRESTRICTED POTABLE USE STANDARDS APPLY

Sections 3.4.3, 3.6.2, and 3.7 and Tables 4 and 5 of Appendix E of the Phase II contain an adequate amount of ground water analytical data to demonstrate that the provisions for protecting ground water meeting unrestricted potable use standards (POGWMUPUS) cannot be applied to the unconsolidated ground water zone beneath the subject property.

The unconsolidated ground water zone monitoring network was sampled twice, April and June 2011 and in accordance with OAC Rule 3745-300-07(F)(2)(a)(i). Dissolved arsenic and trichloroethene were confirmed to exceed corresponding VAP generic UPUS.

OAC Rule 3745-300-07(F)(4) - APPLICABLE STANDARDS

VAP Generic UPUS has been established as the comparative standard for ground water occurring beneath the subject property (Section 3.4.3 of the Phase II).

OAC Rule 3745-300-07(F)(5) - DETERMINATION OF CONCENTRATIONS OF CHEMICALS OF CONCERN

Unless another Identified Area is discovered, Ohio EPA is confident that the maximum concentrations of COCs in the unconsolidated ground water zone have been adequately characterized. The MOA Track documents contain no information to suggest that the full spectrum and concentrations of COCs in ground water have not been adequately determined per the above rule.

OAC Rule 3745-300-07(F)(7) and 3745-300-10(B) - CLASSIFICATION OF GROUND WATER

Sections 3.6.4 and 3.6.5 of the Phase II contain an adequate discussion to demonstrate that the unconsolidated ground water zone meets the definition of Class B ground water.

OAC Rule 3745-300-07(D), 3745-300-07(E)(5), and OAC Rule 3745-300-07(F)(5)(d) - SAMPLING PROCEDURES

Section 2.1.4 of the Phase II states that monitoring well installation and sampling activities were performed in accordance with the Ohio EPA Technical Guidance Manual for Hydrogeologic Investigations and Ground Water Monitoring.

OAC Rule 3745-300-07(G) - USE OF MODELING

The MOA Track documents do not contain any results of any ground water modeling performed.

ATTACHMENT A

OAC Rule 3745-300-01(A)(58) and 3745-300-07(F)(2) - DEFINITION OF GROUND WATER

Tetra Tech assumes in Section 2.1.5 (page 13) of the Phase II that the water encountered beneath the property during this investigation meets the Ohio VAP definition of ground water.

Two ground water zones are identified: the "shallow glacial till unit" or Upper Saturated Zone (USZ) and the "deep bedrock aquifer" or Lower Saturated Zone (LSZ).

OAC Rule 3745-300-07(F)(8) - DETERMINATION OF GROUND WATER YIELD

The Phase II provides an adequate yield discussion in Section 3.3 (page 24) and Appendix D. Pump test results show MW-5-2S yields 0.3 gpm (70 gallons in 4 hours), MW-5-2D yields 1.03 gpm (13 gallons in 12.51 minutes before going dry), and MW-4-7 yields 0.8 gpm (50 gallons in 60 minutes before going dry) (Phase II Appendix D).

OAC Rule 3745-300-07(F)(3) - DETERMINATION OF WHETHER THE PROVISIONS FOR PROTECTING GROUND WATER MEETING UNRESTRICTED POTABLE USE STANDARDS APPLY

UPUS was exceeded in ground water at well MW-5-2S (TCE at 11 ug/L and 7.7 ug/L; UPUS is 5 ug/L) at a total depth of 17.09 feet bgs, located on the south side of the former landfill.

Arsenic (11.2 to 46.5 ug/L) exceeded UPUS (10 ug/L) at monitoring wells MW-2-1, MW- 2-2, MW-5-1, MW-5-2S, MW-5-2D, and MW-5-4. Selenium (105 ug/L) exceeded UPUS (50 ug/L) at monitoring well MW-10-2.

OAC Rule 3745-300-07(F)(4) - DEMONSTRATION OF CONTINUING COMPLIANCE WITH PROVISIONS FOR PROTECTING GROUND WATER MEETING UNRESTRICTED POTABLE USE STANDARDS

The Phase II contains an adequate continuing compliance with the provisions of POGWMUPUS demonstration in Section 3.7 (page 41).

Protection of the LSZ is demonstrated by the following weight of evidence:

- Water level data and pump test results indicate that the saturated intervals within the USZ are not well hydraulically connected.
- The USZ is surrounded by low permeable geologic material, together totaling 75 feet in thickness. Over 25 feet of low permeable clay till exists between the base of the lowest saturated horizon of the USZ and the top of the LSZ.
- Proper abandonment and sealing of the former production water well on the property.

OAC Rule 3745-300-07(F)(5) - APPLICABLE STANDARDS

☐ The Phase II utilizes VAP generic UPUS and risk based modeling (including the soil or groundwater to construction/excavation worker trench inhalation scenario and potential indoor air vapor intrusion scenario) as the comparative standard for ground water occurring beneath the subject property (Sections 3.4, page 24-25, and 3.4.3, page 30).

OAC Rule 3745-300-07(F)(7) and 3745-300-10(B) - CLASSIFICATION OF GROUND WATER

☐ The Phase II contains a sufficient amount of information in Sections 3.6.7 and 3.6.8 to demonstrate that the USZ meets Class B ground water criteria.

Well MW-5-2S exhibited the greatest sustainable yield (70 gallons at 0.3 gpm over 4- hours) of any wells examined by pump tests performed at wells MW-5-2S, MW-5-2D, and MW-4-7. The saturated interval at MW-5-2S is within 15 feet of the surface. Wells MW-5-2D and MW-4-7 were pumped dry at 13 gallons in 13 minutes and 50 gallons in 60 minutes, respectfully.

OAC Rule 3745-300-07(G) - USE OF MODELING

☐ The model BIOSCREEN Version 1.4 was used to simulate the migration of arsenic and barium in ground water. The model BIOCHLOR Version 2.2 was used to simulate the migration of TCE in ground water.

The objectives of the modeling were to (1) simulate the migration of COCs from the hypothetical source area to the down gradient off-site receptors; (2) estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and (3) compare simulated maximum concentrations of COCs at the off-site receptor locations to the water quality standards. Model input parameters were selected that would result in the conservative model predictions (reasonable worst-case COC concentrations at receptor locations) (Phase II Section 3.4, page 26).

The simulations showed that concentrations of COC would be below UPUS in about 200 feet downgradient of the contaminated wells and that it would take hundreds to thousands of years for the ground water to reach the property boundary (Phase II Section 4.3, page 54, and Appendix F).

Based on a review of the models and the parameter inputs, it appears these simulations were conducted in accordance this rule.

OAC Rule 3745-300-10(E) - GROUND WATER RESPONSE REQUIREMENTS

As long as the response to the comments herein do not require additional action by the volunteer, the Phase II appears to contain an adequate discussion as to how the ground water response requirements noted in OAC Rule 3745-300-10(E) for Class B ground water will be met without an urban setting designation and where source/source areas are entirely located on the subject property. A deed restriction that prohibits the use of ground water for potable use will be implemented (Phase II Section 3.8, page 42).

OAC Rule 3745-300-07(I) – DEMONSTRATION OF COMPLIANCE WITH APPLICABLE STANDARDS

The volunteer used ground water sampling and ground water modeling to demonstrate that applicable standards are met in accordance with OAC Rules 3745-300-10(D) and (E).

The Phase II demonstrates protection of the lower zone/bedrock aquifer and compliance with UPUS at the property boundary via ground water modeling. In addition, sources in IA-4 will be excavated and removed (PSRA Section 8.0, page 48 and Figure 5).

Appendix C

Site Specific Work Plan/Field Sampling Plan

SITE SPECIFIC WORK PLAN
AND
FIELD SAMPLING AND ANALYSIS PLAN

FORMER MANSFIELD STAMPING PLANT
2525 WEST FOURTH STREET
ONTARIO, OHIO 44305

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March 18, 2011

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1.0 INTRODUCTION

Tetra Tech EM Inc. (Tetra Tech) is submitting this Site Specific Work Plan (SSWP) and cost estimate (Appendix A) in response to Ohio Environmental Protection Agency's (Ohio EPA) request for Ohio Voluntary Action Program (VAP) Phase II Environmental Site Assessment (ESA) support under Contract Number CSP900211. A health and safety plan (HSP) will be forwarded to Ohio EPA upon approval by Tetra Tech's Health and Safety coordinator, prior to commencement of field activities. These documents collectively comprise the SSWP for the scope of services authorized by Ohio EPA under the above-referenced contract and Mobilization Order (MO) received by Tetra Tech on February 9, 2011.

This SSWP addresses Phase II assessment activities for the former Mansfield Stamping Plant located in Ontario, Richland County, Ohio (Subject Property). This investigation is based on the Identified Areas (IAs) identified in the January, 2011 Phase I ESA completed by Tetra Tech on behalf of Ohio EPA for the site. The location of the Subject Property is shown in Figure 1, and the Identified Areas are outlined in Figure 2. The Phase II Property Assessment will be conducted under the Ohio VAP as codified by Ohio Administrative Code (OAC) 3745-300-07.

1.1 Purpose

The purpose of a Phase II property assessment is to conduct an investigation sufficient to determine whether all applicable standards are met or to determine that remedial activities conducted in accordance with rule 3745-300-11 of the Administrative Code at the property meet or will achieve applicable standards.

The purpose of this SSWP is to describe the personnel, procedures, and methods for ensuring the quality, accuracy, and precision of data collected to support the Ohio EPA in pursuing effective reuse of this industrial property following appropriate investigation and, if necessary, corrective action at the site. Identified within this SSWP are the proposed areas of investigation based on the Ohio VAP compliant Phase I ESA Tetra Tech prepared under to contract to Ohio EPA. The SSWP provides detail regarding sample locations and rationale, field methods and procedures, and associated laboratory and field analytical methods. Surface and subsurface investigations shall be consistent with OAC 3745-300-07. Should the need for additional field activities or sampling arise, this document will be revised by addendum.

1.2 Objective

The objective of this investigation is to evaluate the areas of the site where hazardous substances or petroleum are known or suspected to be present. The areas identified in the Phase I report may be redelineated or eliminated as a result of data collected during and in accordance with the Phase II property assessment. Similarly, additional areas that require additional investigation may be identified as a result of Phase II activities.

1.3 Background

The Subject Property is located west of Mansfield in the City of Ontario, Richland County, Ohio. The Property is comprised of five parcels with a total of 266 acres of land. The site is bound by commercial properties to the north, additional commercial properties including the Richland Mall to the east, a rail yard and State Route 309 to the south, and Beer Road followed by light industry (Burner Systems, Invensys, Universal Refrigeration, Yellow Trucking, and Shearer Equipment) and farmland to the west. The property was developed in 1955 as a General Motors Corporation metal stamping plant known as "The Mansfield Stamping Plant." General Motors operations ceased at the site in February 2010 and the Subject Property is not currently in use.

Structures present at the site include the 2.9 million square foot main stamping plant and 11 additional supporting buildings. The majority of the buildings were constructed in the 1950s and 1960s. No production currently takes place at the plant; production ceased at the plant in February 2010. The IAs identified during the Phase I ESA are presented in Table 1, below.

Table 1
Identified Areas

IA NUMBER	AREA	POTENTIAL COCS	AFFECTED MEDIA
1	Snow staging area/Rack Storage	Ethylene glycol, VOCs, SVOCs, Metals, PCBs	Soil, surface water
2	Former tank farm	TPH (DRO and GRO), BTEX, naphthalene	Soil, ground water
3	Missing/Mis-Identified USTs	TPH (DRO and GRO), BTEX, Naphthalene	Soil, ground water
4	Former WWTP	VOCs, SVOCs, TPH, PCBs, Metals	Soil, ground water
5	Former landfill	Confirmatory sampling should take place to gauge the presence and extent of the landfill. Potentially VOCs, SVOCs, metals, and PCBs	Soil, ground water
6	Coal/Raw Material Storage areas	PAHs, PCBs and Metals	Soil
7	Original switch house	PCBs and Metals	Soil
8	Stained flooring and floor drains	VOCs, SVOCs, PCBs, metals	Soil, ground water
9	Existing WWTP	VOCs, SVOCs, TPH Oil, PCBs, metals	Soil, ground water
10	Haz waste storage pad	VOCs, metals, SVOCs, and PCBs	Soil, ground water

PCB – polychlorinated biphenyls
SVOC – semivolatile organic compounds
VOC – volatile organic compounds
TPH – total petroleum hydrocarbons
GRO – gasoline range organics
BTEX – benzene, toluene, ethylbenzene and xylenes
UST – underground storage tank
WWTP – waste water treatment plant
DRO – diesel range organics
COC – contaminant of concern

1.4 Identified Areas

Tetra Tech identified 10 IAs in the Phase I ESA of the Mansfield Stamping Plant. This section presents the technical approach associated with each IA and is inclusive of "outlier" areas that may have been impacted by activities in the IAs.

Based on inspection of logs available from ODNR for water wells and monitoring wells at nearby facilities, the occurrence of groundwater in the shallow unconsolidated materials is sporadic. For this reason, the project approach and costs assume that up to 10 groundwater samples will be collected directly from soil borings during the soil investigations described below for the IAs. The determination of locations where groundwater samples are feasible and will be collected will be made in the field upon inspection of the subsurface materials at each boring location.

1.4.1 Snow Staging/Rack Storage Area - IA #1

IA #1 comprises the snow staging area and the rack wash storage area west of the main plant building. The concerns associated with this area are:

- Two historical ethylene glycol releases associated with the snow melt system
- Storage of process "racks" prior to and after cleaning in the "rack wash" building

To investigate subsurface issues in this area, Tetra Tech proposes a shallow geophysical survey through the area to locate remaining piping associated with the features. Once piping has been located, Tetra Tech will install six (5) shallow (0 - 4 feet below ground surface [bgs]) soil borings and four sediment samples from drainage features in the area. In addition, one deeper soil boring (<30 feet bgs) will be installed down gradient of the Rack Storage Area.

1.4.2 Former UST Farm - IA #2

IA #2 activities will be focused on the former UST basin located immediately south of the main plant, adjacent to the southwest corner of the building. Three USTs were removed from the subsurface in this area. Two contained gasoline and one contained diesel. Tetra Tech recommends three (3) shallow (<30 feet bgs) soil borings in this area to confirm clean closure of these USTs that received NFA determinations from the Ohio Bureau of Underground Storage Tank Regulations (BUSTR). Additional borings may be required to delineate impacted soil in this area if contamination is detected. To avoid sampling clean fill material used following the removal of the USTs, Tetra Tech will sample native material to each side of the UST basin in addition to sampling through the fill material in one boring to a point at which native material is encountered below.

1.4.3 Missing/Mis-Identified USTs - IA #3

Inconsistencies were noted regarding the registration, location, and closure details associated with USTs at the Subject Property. Tetra Tech will continue to inspect the site to verify the

location(s) of USTs remaining on the Subject Property. Once the remaining locations are clarified, Tetra Tech will install up to three (3) shallow (<30 feet bgs) soil borings per UST basin to confirm clean closure in accordance with Ohio VAP and Ohio BUSTR. Tetra Tech assumes up to 12 borings in association with confirming potential UST locations at the subject property.

1.4.4 Former WWTP - IA #4

The existing WWTP is the second to have served the site. It was apparently constructed in 1990 to replace the original WWTP located immediately west of the current plant. The plant included a system of piping, oil/ water separation tanks, and other storage and/or treatment tanks associated with the process. Tetra Tech will attempt to locate as-built plans to determine the former locations of these features. It is possible that some of the confusion regarding USTs at the site is the result of the misidentification of some of the elements of the WWTP as USTs. Tetra Tech will install up to three (3) shallow (<30 feet bgs) soil borings in this area to confirm clean closure of the WWTP and associated components in accordance with Ohio VAP.

1.4.5 Former Landfill - IA #5

The Phase I ESA records review revealed a figure associated with what may have been a protective filing under RCRA in the early 1980s. The figure illustrated an area immediately south of the facility driveway on the southern side of the main plant, adjacent to the former UST farm. The rectangular area is labeled “Former Landfill”. Tetra Tech’s inspection of the ground surface in this area during the site inspection indicated evidence of filling and grading in this area that correlated to the area identified in the figure.

No record of permitting associated with the “former landfill” was identified during the Phase I ESA. It is not clear if the unit was permitted or properly closed. No information was found regarding its construction or potential capping at closure. Tetra Tech will install up to four (4) shallow (<30 feet bgs) soil borings adjacent to the former landfill on the downslope (presumed downgradient) side of the feature. Tetra Tech also will evaluate the landfill for the potential presence of a cap through careful use of a hand auger. Augering will cease if indications of a drainage layer (typically gravel or sand placed above a liner) is observed to ensure that a liner (if present) will not be penetrated.

Depending on the results of the cover inspection, Tetra Tech may instruct the geophysical contractor to scan the area using ground-penetrating radar (GPR) in attempt to identify large buried objects indicative of a debris or waste landfill. Depending on these initial observations, modification of the project scope to include additional intrusive investigation of this area may be recommended but is not currently included in this work plan or cost estimate. In the absence of a cap, additional investigative activities may include the installation of test pits and/or trenches and the installation of soil borings and monitoring wells within the foot print of the landfill. In the event the unit has been capped, additional investigation may still be required to determine the contents and potential impact of the landfill. This may include advanced geophysical techniques and/or the installation of borings and monitoring wells into the waste unit.

1.4.6 Coal/Raw Material Storage Area - IA #6

Coal used to fire boilers serving the site was stored in bulk adjacent to the power house on the eastern side of the main plant. Photographic evidence of the use of this are for rack and raw material storage also was observed during the Phase I ESA. Tetra Tech will install up to three (3) shallow (< 30 feet bgs) soil borings and/or surficial soil samples in this area. Up to six (6) surficial (0 - 2 feet bgs) soil samples also will be collected from the grassed area immediately south of the coal storage and WWTP areas. Up to 2 sediment samples may also be collected from drainage stormwater features in this area.

1.4.7 Original Switch House - IA #7

The Original Switch House at the Subject Property once housed electrical equipment including transformers and other potentially PCB containing equipment. To determine the potential for interior surfaces of building materials to have been impacted by PCB releases, up to 10 PCB wipe samples will be collected from the building interior. Because VAP standards do not exist for PCB wipe sampling, the data generated will be used simply as an indicator for possible additional investigation.

The basement of the switch house was flooded during Tetra Tech's Phase I ESA site inspection. In the event that water remains in the basement at the time of the Phase II field activities, Tetra Tech will plan to take one sample of the standing water for characterization, providing that the basement can be safely accessed for sampling activities. Tetra Tech also will evaluate the potential to dewater the basement through pumping the contents into the WWTP. If possible, dewatering would allow a visual inspection of the basement.

1.4.8 Stained Flooring/Sumps/Floor Drains - IA #8

Concrete flooring, sumps, pits and floor drains located throughout the facility reveal evidence of potential impact to soil and groundwater beneath several structures at the site and the main plant in particular. Tetra Tech will investigate pits, sumps, and floor drains throughout the facility for signs of potential release (cracks, degradation, etc.). While it is desirable to collect samples from beneath the concrete flooring, it is reportedly up to four (4) feet thick through out much of the facility. As a result, sampling through the existing slab is not feasible in most areas of the facility.

To address potential subsurface impact resulting from pits, sumps, and drains, Tetra Tech recommends physical and video assisted inspection of the oil transport system in general, and the "marriage station" area in the basement of the main plant in particular. The inspection will provide information regarding the condition of the concrete lining the trenches that support the system. Cracks, pitting, and general degradation of the concrete lining would be indicative of areas that may have leaked over the decades of operation.

1.4.9 Existing WWTP - IA #9

The existing WWTP was apparently constructed in 1990 to replace the original WWTP. The plant received waste and wastewater and included a system of piping, oil/ water separation tanks, and other storage and/or treatment tanks associated with the process. Tetra Tech will attempt to locate as-built plans to determine the former locations of these features. It is possible that some of the confusion regarding USTs at the site is the result of the misidentification of some of the elements of the WWTP as USTs. Tetra Tech will install up to three (3) shallow (<30 feet bgs) soil borings in this area to confirm clean closure of the WWTP and associated components in accordance with Ohio VAP.

1.4.10 Hazardous Waste Storage Area - IA #10

Tetra Tech identified a former Hazardous Waste Storage/Accumulation area associated with the "spill tank" at the southwest corner of the main plant. Tetra Tech recommends the installation of up to four (4) shallow (<30 feet bgs) soil borings in this area to evaluate potential impact resulting from materials stored here over the years.

1.5 Regional Geology and Hydrogeology

Available information indicates that the uppermost subsurface materials at the site include primarily unconsolidated deposits of clay and silt with interbedded sands and gravels, deposited as glacial till and outwash. These deposits extend to depths of at least 70 feet bgs on site. The Mississippian Cuyahoga Group underlies the glacial till, sand, and gravel in the area of the subject site. The southwestern portion of the subject property appears to overlie the northeast edge of a northwest to southeast trending bedrock "valley" that is filled with thick clay overlying sand and gravel. Available ODNR well logs suggest that within this buried valley the depth to bedrock may be greater than 200 feet. The bedrock of the Cuyahoga Group includes interbedded sandstones and shales.

Ohio Department of Natural Resources (ODNR) well logs reviewed during the Phase I ESA indicate glacial till comprised of clay and interbedded sand horizons to depths of 70 to 120 feet below the ground surface (bgs). The logs indicate that the occurrence of groundwater in the unconsolidated materials is sporadic; however a zone of "wet" sand and gravel is present in some areas at depths between 10 and 25 feet below ground surface.

The ODNR Groundwater Resources Map for Richland County indicates that the site is underlain by the sandstone and shale formations of the Cuyahoga Group. ODNR reports yields of 10 to 25 gallons per minute (gpm). Large diameter industrial and municipal supply wells with intakes below 200 feet in the Cuyahoga Group have achieved yields in excess of 200 gpm. As previously described the southwest portion of the Subject Property is underlain by an ancestral drainage feature comprising permeable sand and gravel deposits. The "buried valley" deposit is capable of producing yields of 100 to 500 gpm at depths greater than 100 feet bgs.

The ODNR log for the supply well located at the Subject Property indicates clay from the ground surface to a depth of twenty eight (28) feet bgs. The clay overlies interbedded clay and gravel till deposits from 28 to 72 feet bgs. Sandstone bedrock of the Cuyahoga Formation was encountered at 72 feet bgs. The log indicates sandstone to 218 feet bgs below which the water producing shale of the Cuyahoga Formation was encountered. The boring was terminated at 220 feet bgs.

1.6 Project Team

This section presents Tetra Tech's key project team members responsible for management, QA, and field operations associated with the Phase II investigation. Resumes for all project personnel were presented in Tetra Tech's proposal dated October 2010. A brief description of key staff responsibilities is provided below:

Carl Rhodes, C.P.G, Ohio VAP Certified Professional\Senior Geologist – Mr. Rhodes will serve as the Ohio VAP Certified Professional and is responsible for technical and administrative management of the project team. Mr. Rhodes will direct project activities to ensure compliance with Ohio VAP requirements.

Guy Montfort, P.G, Contract Manager\Senior Geologist – Mr. Montfort will serve as the contract manager, whose primary function is to ensure that technical, financial, and scheduling objectives are achieved in accordance with Tetra Tech's contract with Ohio EPA. The contract manager's duties and responsibilities include:

- Establish policies and procedures to address specific needs of the project as a whole and objectives of each project task.
- Acquire and apply technical and corporate resources to ensure that project performance is within budget and schedule constraints.
- Monitor and direct the Tetra Tech project team
- Review the work performed under each task to ensure its quality, responsiveness, and timeliness.
- Responsible for the preparation and quality of interim and final reports.
- Track and document project costs and ensure all costs are invoiced in accordance with contract requirements
- Represent the project team at meetings and public meetings.

Kemp Jaycox, On Site Project Manager/ Project Environmental Scientist - Mr. Jaycox will be responsible for leading all on-site sampling activities. He will also serve as the on-site health and safety officer. He will be responsible for

- Directing drilling, geophysical, surveying and waste disposal subcontractors in the conduct of the investigative activities described herein
- Documenting field observations, sampling locations, subcontractor time and materials, and progress of the work
- Collecting, packaging and shipping of all environmental samples

- Ensuring compliance of all field activities with project objectives, approved methods, quality control and sample custody protocols
- Coordinating and communicating with the Tetra Tech contract manager
- Assisting with preparation of the final report

Vicky Farmer, Project Environmental Scientist - Ms. Farmer will serve as the project environmental scientist. Her role will include:

- Coordination with the project laboratory
- Directing drilling subcontractors in borings and monitoring well installation
- Documenting field observations, sampling locations, subcontractor time and materials, and progress of the work
- Collecting, packaging and shipping of environmental samples
- Coordinating and communicating with the Tetra Tech on-site project manager
- Assisting with preparation of the final report.

Additional Tetra Tech personnel (such as graphics/GIS specialists, geologists and environmental scientists) will support project activities as needed.

2.0 DATA QUALITY OBJECTIVES

Ohio VAP requires the development and implementation of data quality objectives consistent with U.S. EPA's "Guidance on Systemic Planning Using the Data Quality Objectives Process" according to their limitations and intended uses.

2.1 General Objective

The objective of the Ohio VAP Phase II ESA is to assess identified environmental conditions with the potential to impact future re-use of the facility in a light industrial setting. The result must demonstrate that the property meets the applicable standards that need to be achieved to demonstrate compliance with VAP rules. The investigation will identify areas of the site that do not meet applicable standards and, based on investigation findings, identify the feasibility and costs of cleaning up the Property to allow for redevelopment. Cleanup will be designed with the ultimate goal of meeting applicable Ohio VAP standards for light commercial/industrial use.

2.2 Decision Identification

Tetra Tech will conduct Phase II field activities in a phased approach. This will allow initial data to be compared to applicable VAP standards early in the field effort. Data gaps will be identified and, to the extent appropriate, additional field investigation will be conducted to address those data gaps, if necessary. In consideration of future redevelopment efforts at the Subject Property, this SSWP is intended to be dynamic, allowing the project team to respond to changing conditions identified in the fields. In general, the criteria for determining the extent to which additional efforts may be required will include the following:

1. Do portions of the Subject Property contain COCs that exceed applicable VAP cleanup goals, and do data gaps exist such that additional data are required to fully delineate, define potentially complete pathways and exposures to receptors associated with the COCs?

2. For areas of the Subject Property containing COCs exceeding VAP cleanup goals, what are appropriate and cost-effective options for fully delineating, cleaning up and/or eliminating pathways to potential receptors posed by the COCs such that the Subject Property redevelopment can be accomplished?

2.3 Inputs to the Decision

The investigative approach described in this SSWP was defined based on results from the Phase I ESA, discussions with Ohio EPA and Ohio Department of Development (DOD), and historical information associated with the Subject Property. IAs identified during Tetra Tech's Phase I ESA will be further investigated in accordance with this SSWP. The investigation will include subsurface soil and groundwater sampling, sediment sampling, surface water sampling and limited sampling of building materials in order to:

1. Identify the presence and concentrations of COCs in soil, groundwater, surface water and sediment at the subject site
2. Characterize the geology and hydrogeology at the subject site
3. Identify and evaluate potential COC migration and exposure pathways

Based on observations made in the field, Tetra Tech may conduct additional investigations related to the delineation of the 10 IAs presented in the Phase I ESA and potential new IAs identified during this investigation. The ultimate goal is to compile data necessary to support decisions related to the successful redevelopment of the Property, including remedial activities, as necessary.

2.4 Study Boundaries

The boundaries of the environmental investigation are represented by the property boundary of The Mansfield Stamping Plant. The legal description of the subject site is provided as Appendix B to this SSWP. The area of study will include the 266 acres contained within the Subject Property boundaries as shown in Figure 1.

During the investigation, soil borings will be advanced using continuous sampling techniques to allow for detailed lithologic descriptions and detailed elevation data regarding water bearing horizons. It is anticipated that the majority of soil borings will be terminated at depths of less than 30 feet bgs. However, Tetra Tech may install several deep borings to vertically delineate contaminant migration, obtain valuable hydrogeologic data for groundwater classification determinations, and to verify depth to bedrock beneath the subject site.

2.5 Decision Rule

Based on analytical results obtained from initial soil and groundwater sampling activities, the decision will be made whether to further investigate areas of the Subject Property. Should analytical concentrations of COCs exceed VAP cleanup goals, additional investigation may be needed to fully delineate the impact to the site and/or to demonstrate that applicable standards have been met.

Proposed soil boring and monitoring well locations (Figure 3) have been selected to maximize the potential for detecting COCs in the areas where they are most likely to be found at the site. Soil boring locations will distributed among the IAs depicted on Figure 2. In addition, drilling locations may require relocation relative to the planned locations to address issues of inaccessibility, utility clearance, and access.

2.6 Decision Error Limits

The proposed sampling locations have been biased towards IAs and the COCs have been determined based on the potential sources associated with each IA. It is always possible that unsuspected source or impact areas can be missed, but this SSWP has been conservatively biased so that the results will tend to provide a conservative view of identified impacts to the Subject Property.

2.7 Design Optimization

Optimization of the sampling and analysis was based on the Subject Property reconnaissance completed as part of a Phase I ESA, information provided by Ohio EPA and Ohio DOD, and historical information related to the site and surrounding area. Sampling and analysis will be focused on IAs, potentially resulting in a conservative interpretation of site-wide environmental conditions. Field screening procedures and visual observations made in the field will further bias data to the conservative, as samples exhibiting evidence of depths that contain the highest concentrations of COCs will be submitted for laboratory analyses.

2.8 Special Considerations

Specific methodologies in the form of Standard Operating Procedures (SOPs) that apply to this Work Plan are provided as Appendix C. Laboratory analyses described in this SSWP are anticipated to be conducted by Ohio EPA's contract VAP Certified Laboratory; Test America Labs in North Canton, Ohio (VAP Certification Number: CL0024). Laboratory QA procedures will be conducted and documented in accordance with Ohio VAP requirements. The laboratory will not be subcontracted to Tetra Tech; for this reason, the requirements of Ohio EPA's direct contract with Test America will govern the conduct of all laboratory analyses.

Tetra Tech will maintain open lines of communication with the laboratory, encouraging coordination with issues related to: sample transport and delivery; analytical methods and

laboratory method detection limits (lmdl); correlation of lmdls to Ohio VAP standards; and other issues that my impact data quality.

3.0 PATHWAY COMPLETENESS DETERMINATION

Ohio VAP requires an evaluation for current and reasonably anticipated exposure pathways associated with the Subject Property. The evaluation must identify sources, source areas, or affected media contributing to the pathway; receptors identified in accordance with Ohio VAP; applicable points of compliance; and transport mechanisms for each pathway. Exposure pathways that are determined to be complete will be identified. If exposure pathways are identified on or adjoining the property that are not reasonably anticipated to be complete for the COCs, written justification will be provided for the elimination of those exposure pathways from further consideration.

3.1 Conceptual Site Model

One of the more effective methods used to effectively present available information is the conceptual site model (CSM). The CSM is developed with the assistance of appropriate disciplinary expertise from within the project team. The project team will develop a CSM that will clearly represent what is already known about the site. The CSM, in turn, can then be used to identify data gaps and areas that require additional investigation to achieve project goals. Tetra Tech will add the data collected as a result of this investigation to the CSM as a tool in the continued development and understanding of issues related to the subject site. Modeling incorporated into the project will be conducted in accordance with the requirements of OAC 3745-300-07 in order to produce sound, reliable predications regarding current and future conditions at the site.

4.0 SOIL AND GROUNDWATER ASSESSMENT

4.1 General

The purpose of the field sampling program is to identify potential contamination source areas, begin delineating the extent of contamination encountered at the site, and to determine if additional source areas are continuing to contribute to contamination at the site. Details regarding Tetra Tech's field sampling procedures are provided as Appendix C.

4.2 Drilling and Geological Investigation

Proposed soil boring locations are associated with IAs, or in areas potentially impacted by activities in IAs (Table 2).

Drilling activities associated with this investigation include the installation of approximately 34 soil boring to depths ranging from zero (0) to 30 feet bgs. Based on historical data, it appears that groundwater may be encountered at depths of approximately 10 to 25 feet bgs within sand horizons in till deposits.

Table 2
Soil Boring Locations for Identified Areas

IA	Soil Boring	Proposed Depth (feet bgs)	COC	Sample Depth (feet bgs)	Feature
1	IA-1-1	4	Ethylene Glycol	0 - 2; 2 - 4	Snow Melt Pad
	IA-1-2	4	Ethylene Glycol	0 - 2; 2 - 4	Snow Melt Pad
	IA-1-3	4	Ethylene Glycol	0 - 2; 2 - 4	Snow Melt Pad
	IA-1-4	4	Ethylene Glycol	0 - 2; 2 - 4	Snow Melt Pad
	IA-1-5	4	Ethylene Glycol	0 - 2; 2 - 4	Snow Melt Pad
	IA-1-6	30	Ethylene Glycol, VOCs, SVOCs, TPH, PCBs, Metals	Continuous 2 foot intervals to 30 feet bgs	Rack Wash
2	IA-2-1	30	TPH DRO, GRO, BTEX, Naphthalene	Continuous 2 foot intervals to 30 feet bgs	UST Farm
	IA-2-2	30	TPH DRO, GRO, BTEX, Naphthalene	Continuous 2 foot intervals to 30 feet bgs	UST Farm
	IA-2-3	30	TPH DRO, GRO, BTEX, Naphthalene	Continuous 2 foot intervals to 30 feet bgs	UST Farm
3	IA-3-1	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 6K Diesel UST
	IA-3-2	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 6K Diesel UST
	IA-3-3	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 6K Diesel UST
	IA-3-4	30	VOCs	Continuous 2 foot intervals to 30 feet bgs	Missing 8K TCE UST
	IA-3-5	30	VOCs	Continuous 2 foot intervals to 30 feet bgs	Missing 8K TCE UST
	IA-3-6	30	VOCs	Continuous 2 foot intervals to 30 feet bgs	Missing 8K TCE UST
	IA-3-7	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 10K Kero UST
	IA-3-8	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 10K Kero UST
	IA-3-9	30	TPH DRO	Continuous 2 foot intervals to 30 feet bgs	Missing 10K Kero UST
	IA-3-10	30	TPH DRO, GRO, BTEX	Continuous 2 foot intervals to 30 feet bgs	Missing 15K HAZ WASTE UST

Table 2
Soil Boring Locations for Identified Areas

IA	Soil Boring	Proposed Depth (feet bgs)	COC	Sample Depth (feet bgs)	Feature
3	IA-3-11	30	TPH DRO, GRO, BTEX	Continuous 2 foot intervals to 30 feet bgs	Missing 15K HAZ WASTE UST
	IA-3-12	30	VOCs, SVOCs, PCBs, TPH	Continuous 2 foot intervals to 30 feet bgs	Missing 15K HAZ WASTE UST
4	IA-4-1	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-2	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-3	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-4	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-5	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-6	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
	IA-4-7	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Former WWTP/ Power Plant/ Bailer House
5	IA-5-1	30	VOCs, SVOCs, Metals, PCBs	Continuous 2 foot intervals to 30 feet bgs	Former Landfill
	IA-5-2	30	VOCs, SVOCs, Metals, PCBs	Continuous 2 foot intervals to 30 feet bgs	Former Landfill
	IA-5-3	30	VOCs, SVOCs, Metals, PCBs	Continuous 2 foot intervals to 30 feet bgs	Former Landfill
	IA-5-4	30	VOCs, SVOCs, Metals, PCBs	Continuous 2 foot intervals to 30 feet bgs	Former Landfill
6	IA-6-1	30	PAHs, PCBs, Metals, TPH	Continuous 2 foot intervals to 30 feet bgs	Coal Storage
	IA-6-2	30	PAHs, PCBs, Metals, TPH	Continuous 2 foot intervals to 30 feet bgs	Coal Storage
	IA-6-3	30	PAHs, PCBs, Metals, TPH	Continuous 2 foot intervals to 30 feet bgs	Coal Storage
	IA-6-4	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage

Table 2
Soil Boring Locations for Identified Areas

IA	Soil Boring	Proposed Depth (feet bgs)	COC	Sample Depth (feet bgs)	Feature
6	IA-6-5	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage
	IA-6-6	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage
	IA-6-7	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage
	IA-6-8	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage
	IA-6-9	4	PAHs, PCBs, Metals, TPH	0 - 2; 2 - 4	Coal Storage
7	XXX - NO SOIL BORINGS ASSOCIATED WITH THIS IA - WIPE AND SURFACE WATER ONLY				
8	XXX - NO SOIL BORINGS ASSOCIATED WITH THIS IA - Video or Physical Inspection for leaks				
9	IA-9-1	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Existing WWTP and Assoc Areas
	IA-9-2	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Existing WWTP and Assoc Areas
	IA-9-3	30	VOCs, SVOCs, PCBs, TPH, Metals, PAH	Continuous 2 foot intervals to 30 feet bgs	Existing WWTP and Assoc Areas
10	IA-10-1	30	VOCs, SVOCs, PCBs, Metals	Continuous 2 foot intervals to 30 feet bgs	Haz Waste Storage
	IA-10-2	30	VOCs, SVOCs, PCBs, Metals	Continuous 2 foot intervals to 30 feet bgs	Haz Waste Storage
	IA-10-3	30	VOCs, SVOCs, PCBs, Metals	Continuous 2 foot intervals to 30 feet bgs	Haz Waste Storage
	IA-10-4	30	VOCs, SVOCs, PCBs, Metals	Continuous 2 foot intervals to 30 feet bgs	Haz Waste Storage

Before proceeding, boring locations will be staked and all reasonable resources will be used to ensure that the locations are clear of utilities or other structures. Tetra Tech will work with available plant personnel and plans to avoid known locations of utilities. The Ohio Underground Utilities Protection Service will be contacted and the locations cleared at least one week prior to commencing field activities. In addition, since the investigation will be completed on private property, a private utility locating contractor will clear all boring locations using various techniques including GPR, before drilling commences. Any locations found to not be suitable due to utilities or other obstructions will be relocated as close as possible to the original location and will be approved by the Ohio EPA SC before proceeding.

It is anticipated that the soil investigation will include borings using direct push techniques. Soil samples will be collected continuously from the ground surface to the depth at which

groundwater is encountered, or soil headspace screening indicates the vertical base of contamination. Soil samples will be screened in the field for the potential presence of COCs using a portable detection devices and field screening technology. At locations in which shallow (<30 ft. bgs) groundwater is encountered, the site geologist will determine the terminal depth of the boring required to meet VAP requirements and the potential for the boring to be completed as a monitoring well location. The number of samples collected from each boring for laboratory analysis will be based on the objectives associated with the boring location in question. In some instances only one soil sample from a particular boring may be submitted. In areas where additional vertical delineation, point of compliance, and/or other issues impact data requirements, more than one sample may be collected. Samples selected for analysis will be biased within each interval based on field observations and consideration of VAP and AAI requirements. Tetra Tech's cost estimate allows for analysis of up to 10 additional soil samples for this purpose.

Proposed boring locations are associated with IAs or areas that could be impacted by operations in IAs (Table 2). The proposed locations (Figure 3) were selected to identify potential source areas of contamination at the site in the areas in which they are most likely to be found. Prior to subsurface sampling, public utility clearance to the site will be performed by Tetra Tech's geophysical contractor. Due to the complexity of the site, Tetra Tech's contractor may be required to clear proposed soil boring locations. The number and location of soil borings; and number of samples collected may be adjusted in the field to accommodate utilities or in response to revised study priorities.

Soil samples will be collected using continuous split-spoon sampling techniques. A two-foot split spoon sampler to obtain soil samples. The purpose of the continuous sampling effort is to gather as much stratigraphic data as possible in order to characterize the overburden, bedrock, and water bearing horizons in each area. Detailed sampling methodology is provided in Tetra Tech's SOP in Appendix C.

4.3 Groundwater

Based on inspection of logs available from ODNR for water wells and monitoring wells at nearby facilities, the occurrence of groundwater in the shallow unconsolidated materials is sporadic. For this reason, the project approach and costs assume that up to 10 (10) groundwater samples will be collected from the soil borings during the soil investigations described in Section 4.2. The determination of locations where groundwater samples are feasible and will be collected will be made in the field upon inspection of the subsurface materials at each boring location. Groundwater samples collected from borings will be "screening" samples used to further focus the boring and monitoring well installation program and selection of groundwater monitoring parameters, but will not be used for comparison to VAP standards.

To satisfy VAP requirements, groundwater sampling and hydraulic testing will be required. Continuous soil sampling will allow the geologist to identify potential groundwater horizons at the site. Data regarding the depths at which suspected groundwater horizons are encountered will be documented and used to determine monitoring well locations and construction details to

ensure sample data consistent with VAP requirements. Groundwater samples will be collected from the existing site supply well and newly installed wells anticipated in association with this investigation at the Subject Property. The current supply well is six-inches in diameter and is located beneath the water tower. The well was installed in 1956 and extends 220 feet into the shale aquifer within the Cuyahoga Formation. The ODNR well log indicates the static water level in the well is 125 feet bgs.

Monitoring wells will be installed in accordance with the SOPs provided in Appendix C and applicable Ohio VAP and ODNR standards. The wells will be installed using hollow stem auger techniques and will be constructed of 2-inch diameter PVC. Depths for shallow wells will be selected based on data gathered from the soil boring program. Continuous soil samples will be collected and logged from the deep borings; the need for installation of deep monitoring wells in these locations will be based on field observations of the presence/absence of water bearing zones and vertical extent of contamination at these locations.

Table 3
Proposed Monitoring Well Locations

IA LOCATION	ENVIRONMENTAL CONCERN	NUMBER OF MONITORING WELLS
Former tank farm	TPH (GRO and DRO), BTEX, naphthalene	4
Missing USTs	TPH (GRO and DRO), BTEX, naphthalene	4
Former landfill	VOCs, SVOCs, metals	3
Floor stains & drains	VOCs, SVOCs, metals	4
Deep wells - need and locations to be determined	VOCs, SVOCs, metals	Up to 2

4.3.1 Well Development

Groundwater monitoring well development will consist of surging and pumping to remove fine sediments, followed by pumping to remove approximately five well volumes of water from each well. Wells will be considered developed when the following parameters are stabilized within 10 percent over three consecutive well volumes: turbidity, dissolved oxygen, pH, temperature, and conductivity. Purge water will be containerized, labeled, and staged with other investigation-derived waste (IDW) at the IDW staging location.

4.3.2 Groundwater Monitoring

Groundwater samples will be collected from the existing supply well and newly installed groundwater monitoring wells associated with this investigation. Tetra Tech anticipates using low-flow techniques to obtain groundwater samples from site monitoring wells. Low-flow sampling, also known as micropurging, provides a method of minimizing increased colloid mobilization by removing water from the well at the screened interval at a rate that preserves or

minimally disrupts steady-state flow conditions in the aquifer. The well water will be considered stabilized after three successive measurements of field parameters at 3-minute intervals fall within the following ranges: ± 0.1 for pH, ± 0.5˚C for temperature, ± 3% for conductivity, ± 10 millivolts for oxidation-reduction potential, and ± 10% for turbidity and dissolved oxygen. For additional detail regarding sampling and parameters see SOPs 010, 014, and 015 (Appendix C).

Sampling will employ the same equipment used for purging. Field measurements will be documented in the field logbook. At each location, groundwater samples will be collected and containerized for VOC analysis first, followed by SVOCs, TPH, and metals. (Note - the final parameter list will be determined following receipt of data from the soil boring program and will be subject to Ohio EPA approval.) Samples will be poured directly into appropriate (glass or high-density polyethylene) containers (Table 4) immediately upon collection. Samples will be immediately placed in an iced cooler and maintained at a temperature of 4 ± 2˚C without freezing until they are delivered to the laboratory under standard chain-of-custody (COC) protocol.

In some instances, grab water samples may be collected from soil borings for use in screening analysis and to support delineation during sampling activities. Open bore hole samples will be used as a screening tool only.

4.3.3 Hydraulic Testing/Aquifer Determinations

Ohio VAP requires that the water encountered in a saturated zone during drilling is actually ground water as defined by Ohio VAP. VAP requires a demonstration that the saturated zone falls below the minimum criteria for ground water as that term is defined in paragraph (A) of rule 3745-300-01 of the Administrative Code. To comply with this requirement Tetra Tech will conduct yield testing in accordance with paragraph (D)(9) of the VAP rule, using a sufficient number of properly developed wells two-inches in diameter with a minimum of a five-foot long manufactured screen placed in the saturated zone. The well will be constructed within a six-inch diameter borehole.

Yield data obtained from the ODNR well log for the supply well serving the Subject Site will be used to support groundwater determinations associated with the deep Cuyahoga Group aquifer at the site.

4.4 Surface Water

Tetra Tech plans to collect surface water samples from the stormwater retention pond at the site to document potential impact from exterior plant operations. Tetra Tech anticipates surface water samples will be taken from the pond influent, mid-point, and effluent to be analyzed for VOCs, SVOCs, PCBs and metals.

Table 4
Sample Container, Preservation, and Holding Times

	ANALYTE	SAMPLE CONTAINER	PRESERVATION REQUIREMENTS	MAXIMUM HOLDING TIME (PREP/ANALYSIS)[1]
Soil/Sediment	VOCs	Three 40-ml glass containers with PTFE-lined septa and open-top screw caps, pre-weighted and containing magnetic stir bars, and one container of sample filled with no headspace for determination of moisture content.	Iced 4˚±2˚C	48 hours to preservation at laboratory/14 days for analysis following preservation
		At least three coring tools used as transport devices (such as 5-gram samplers), and one container of sample filled with no head space for determination of moisture content.	Frozen -7˚ to -15˚C	48 hours (frozen) to preservation at the laboratory for analysis after preservation
Water	VOCs	Three 40-mL glass vials with PTFE-lined septa and open-top screw caps	No headspace Cool to 4±2°C adjust pH to less than 2 with HCl	7 days/14 days
Soil/Sediment	SVOCs	Two 4- or one 8-ounce wide-mouth glass jar	Cool to 4±2˚C immediately after collection	14 days/40 days
Water	SVOCs	Two 1-liter amber glass bottles fitted with PTFE-lined screw caps	Cool to 4±2°C Immediately after collection	7 days/40 days
Soil/Sediment	PCBs	Two 4- or one 8-ounce wide-mouth glass jar	Cool to 4±2˚C immediately after collection	14 days/30 days
Water	PCBs	Two 1-liter amber glass bottles, fitted with PTFE-lined screw caps	Cool to 4±2°C immediately after collection	7 days/40 days
Soil/Sediment	Metals (including Hg and CN)	Two 4- or one 8-ounce wide-mouth glass jar	Cool to 4±2˚C immediately after collection	NA/6 months (Metals and Hg) 14 days/14 days (CN)
Water	Metals (including mercury)	One 1-liter HDPE bottle with polyethylene-lined caps Particulate metals sample: no filter needed	HNO_3 to pH < 2 and cool to 4 ˚C (±2 ˚C) immediately after collection	NA
Soil/Sediment	Ethylene glycol	One 4-ounce wide-mouth glass jar	Cool to 4±2˚C immediately after collection	
Water	Ethylene glycol	Two 40-mL glass vials with PTFE-lined septa and open-top screw caps	Cool to 4±2˚C immediately after collection	40 days

[1] Holding time is measured from time of sample collection to the time of sample extraction and analysis (EPA 2004).

4.5 Sediment/Sludge Samples

Sediment samples also will be collected from locations throughout the stormwater collection and conveyance system. Sediment samples are anticipated from surficial drainage features located throughout the southern, eastern, and western portions of the site. Additional sediment samples will be collected in the ditch along beer road, and from downstream of the stormwater retention pond discharge. Sediment samples will be analyzed for VOCs, SVOCs, PCBs, and metals.

4.6 Ground Penetrating Radar (GPR) Survey

Several IAs at the Subject Property are associated with issues that require further confirmation prior to intrusive subsurface sampling. Specific issues include confusion among several sources related to registered USTs as opposed to those actually reported and/or observed at the site. In addition, there is evidence that points to possible landfilling at some point in the facility history. Tetra Tech proposes geophysical methods to support the identification and initial delineation of the suspected UST locations and the landfill area at the site.

4.7 Test Pits/Trenching

Test pits and/or shallow trenching also may be used in order to confirm the presence and potential contents of the landfill reported on the southern side of the main plant. Tetra Tech subcontractor personnel will use hand shovels to carefully unearth the surface in the landfill area to determine the presence of cap material. In the event the landfill area appears uncapped, the scope of the investigation may need to be expanded to include test pits or backhoe transactional trenches to determine contents and delineate the boundaries of the landfill. (Costs for intrusive trenches or test pits are not included at this time.)

4.8 Management of Investigation-Derived Waste (IDW)

Drilling will produce soil cuttings that will require containment in 55-gallon drums pending laboratory results. Tetra Tech's drilling contractor will provide drums to contain soil cuttings and will transport the drums to a location on site designated by Ohio EPA. The location will be accessible for future pickup by a waste disposal contractor. Costs included herein assume that these materials will be nonhazardous. Development and decontamination water associated with monitoring wells will be containerized pending analytical results as well. Tetra Tech's drilling subcontractor will transport the drums to a location on site designated by Ohio EPA, or if appropriate and approved by Ohio EPA, dispose of development water into the site WWTP.

5.0 QUALITY CONTROL

5.1 Sample Designation

Samples will be identified by a unique sample identification number. The identifier will be composed of the following information:

- Matrix
- Sample location
- Area designation
- Sample Date
- Sample type (field, field duplicate, or QA/QC)

Table 5 presents a generalized sample identification scheme for the investigation.

Table 5
Generalized Sample Identification Scheme

MATRIX		LOCATION NUMBER	AREA DESIGNATION	DEPTH (FEET)	DATE	EXAMPLE IDENTIFICATION
Soil Boring	SB	01	SSA-Snow staging area FTF-Former tank farm UST-Missing USTs OLD-Old WWTP LAN-Former landfill CSA-Coal storage area SWH-Switch house NEW-New WWTP HAZ-Hazardous waste storage pad	10	March 2011 = 0311	SB01-SSA-10-0311[1]
Groundwater	MW	01	NA	NA	March 2011 = 0311	MW01-0311
Surface Water	SW	01	SRP-Stormwater retention pond	NA	March 2011 = 0311	SW01-SRP-0311

[1] All sample locations will have new sample ID, in numerical order. The depth listed is the bottom of the sample interval.

5.2 Sample Chain of Custody

Samples must be accompanied by a properly completed chain-of-custody form. The sample numbers and location designations must be listed on the chain-of-custody form. When transferring possession of samples, the individuals relinquishing and receiving the samples must sign, date, and note the time of transfer on the chain-of-custody record. This record documents the custody transfer of samples from the sampler to another party (for example, to a mobile laboratory, to the permanent laboratory, or to or from a secure storage area).

5.3 Field Quality Control Requirements

Field QC samples will be collected and analyzed to assess the quality of data generated from sampling activities. These samples may include duplicate samples, MS/MSD samples, trip blanks, and equipment rinsate blanks.

A duplicate sample consists of two separate samples collected from the same sampling location and depth using the same equipment and sampling procedures. Tetra Tech will collect one duplicate sample for every 10 or fewer investigative samples collected.

Of every 20 or fewer investigative samples collected for organic analysis, one sample will be designated for MS/MSD analysis. MS/MSD samples will be collected using the same procedures used to collect other samples except that they will be clearly designated for MS/MSD analysis. For inorganic analysis, a laboratory duplicate and an MS sample will be analyzed by the laboratory at a frequency of one per 20 or fewer samples. The volume of groundwater samples designated for MS/MSD organic analysis is triple the normal volume collected for field samples. Double the normal groundwater volume is required for MS/MSD analysis for inorganic parameters. For soil samples, extra volume is only required for MS/MSD VOC analysis. Tetra Tech will coordinate with the laboratory to confirm that appropriate sample volumes are collected for all investigative and QA/QC samples.

The laboratory will prepare trip blanks for samples to be collected for VOC analysis. For water samples, trip blanks will consist of analyte-free water poured into the sample bottles. For soil samples, trip blanks will consist of sodium bisulfate and methanol preservatives poured into sample bottles. The trip blanks will be placed in the coolers and will accompany the field team member to each sampling location. At the end of the day, trip blanks will be sealed into each cooler.

Tetra Tech will collect one equipment rinsate blank for every 20 or fewer investigative samples collected when non-dedicated sampling equipment is used. Equipment blanks will consist of the final rinsate collected from decontaminated sampling equipment.

5.4 Laboratory QA Requirements

Ohio VAP requires laboratories to produce certified data to support a voluntary action. The laboratory must be certified for each analyte, parameter group and method, as defined in paragraph (A) of rule 3745-300-01 of the Administrative Code. The laboratory's analyses must remain consistent with the laboratory's standard operating procedures and quality assurance program plan as approved by the agency.

In this instance, Ohio EPA contract laboratories will be used for analyses presented in this SSWP. Tetra Tech will evaluate the data package provided by the laboratories for deficiencies which could result in a determination that the data quality is questionable. The review will be designed to evaluate laboratory quality control processes which could affect the data processing within the laboratory.

6.0 REPORTS/DELIVERABLES

In accordance with the requirements of the Contract and this MO, Tetra Tech will document and prepare reports of site activities. These reports will consist of field notes/logs, daily/weekly summary forms, monthly status reports, and a final report.

Field Notes and Daily/Weekly Summary Forms

Tetra Tech's on-site project manager will record all pertinent information regarding site activities and observations. Tetra Tech will record field notes in waterproof ink in a bound notebook. Tetra Tech will record all relevant well construction and development details. Tetra Tech will place copies of all field notes/logs in the project files and will provide copies directly to the Ohio EPA SC if requested.

Tetra Tech will also complete summary forms for each day that field work is performed during this project. The summary forms document (1) work completed (2) labor, equipment and material usage (3) subcontractor time and materials, and (4) any deviations from the SSWP. These reports consist of pre-printed standard forms. Copies of these forms are included with each project invoice.

Monthly Status Reports

Tetra Tech will complete monthly status reports that summarize general project progress and status with respect to completion of the scope of work, deliverables, and project budgets, as required by the Contract. The report will also summarize project expenditures for the period. The reports will be submitted by the 10th day of each month following the reporting period. The monthly reports will be submitted for the duration of this project, until Ohio EPA approves Tetra Tech's final report.

Final Report

At the conclusion of field activities, Tetra Tech will prepare an Ohio VAP-compliant Phase II ESA Report for submission to Ohio EPA. Tetra Tech's Ohio VAP-compliant Phase II report will include required information as outlined in OAC 3745-300-07. Tetra Tech anticipates completion of the report within 30 days of the receipt of laboratory data packages.
The report will include the following:

- A description of the work site, project objectives and field sampling procedures
- Figures showing the locations of all on-site activities, sampling locations, piezometric elevations, and contaminant concentrations
- Geologic boring logs and monitoring well construction diagrams
- Tabulated analytical data
- An evaluation of data quality and usability
- A discussion of the findings and results of the Phase II ESA
- A summary and justification of any technical deviations from this SSWP

- Photographs documenting on-site activities and boring/well locations
- Copies of all laboratory analytical reports.

7.0 SCHEDULE

Tetra Tech will initiate preparations for field work upon receiving notice of Ohio EPA's approval of this SSWP and cost estimate, subject to subcontractor availability. Initiation of field work is also contingent on Ohio EPA's obtaining an access agreement for the Phase II sampling activities. Based on discussions with the drilling subcontractors and Ohio EPA, Tetra Tech anticipates commencing drilling activities during the last week of March 2011.

Field activities will commence with utilities clearance, shallow (direct push) soil borings, sediment/surface water sampling and interior (wipe) sampling. Approximately 1 week following initiation of the soil boring program, a second drill rig will be mobilized to conduct the monitoring well installation and deep soil borings. The monitoring wells will be sampled no sooner than 72 hours following completion of well development. Surveying will occur during the groundwater sampling program, and IDW disposal will be completed within 30 days of completion of field work.

Tetra Tech will initiate report preparation as field data are generated and reported by Tetra Tech's on-site project manager. Data quality will be reviewed and data will be tabulated as it is received from the laboratory. Based on discussions with Ohio EPA, data will be available within a 14 day-turnaround time. The following table presents a conceptual schedule for the Phase II investigation, based on the assumptions described above.

Table 6
Project Schedule

3/15/11	**3/18/11**	**3/28/11**	**4/04/11**	**5/2/11**	**5/20/11**	**5/27/11**	**6/30/11**
Site Visit	SSWP Approval and Access Agreement Completed	Mobilize for Soil Borings, Sediment Sampling	Mobilize for Monitoring Well Installation	Mobilize for Groundwater Sampling	Receive Final Analytical Data	Submit Draft Report to Ohio EPA	Final Project Closeout and Invoice Submittal
Solicit Subcontractor Bids Procure Subcontractors, Prepare for Field Work							
		Receive and Review Field and Analytical Data					
			Prepare and Revise Draft Phase II Report				
Monthly Progress Reports and Invoice Submittal							

8.0 COST ESTIMATE

Tetra Tech's itemized cost estimate is provided as Appendix C. Tetra Tech estimates a total cost of $224,886 to complete the requested scope. Itemized costs are presented for tasks associated with each IA in the detailed cost estimate. Tetra Tech labor represents 33.6% of project costs. The remaining 66.4% represents subcontractor costs, travel expenses, and other direct costs. Laboratory costs are included in the cost estimate at Ohio EPA's request; however, the laboratory will not be subcontracted to Tetra Tech. Laboratory services will be provided by TestAmerica of North Canton, Ohio, through Ohio EPA's Statewide Analytical Services Contract and will be billed directly to Ohio EPA. As requested by Ohio Department of Development all estimated "hard" costs (subcontractors, laboratory, equipment, supplies, lodging/per diem and shipping) include a 10 percent contingency factor. All subcontractor costs include Tetra Tech's 8 percent markup with the exception of waste disposal costs, as required by the contract. No markup is charged for laboratory services as the laboratory will not be under subcontract to Tetra Tech. No markup is applied for travel costs, in accordance with contract requirements.

9.0 REFERENCES

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FIGURES

APPENDIX A

ITEMIZED COST ESTIMATE

COST SENSITIVE INFORMATION NOT INCLUDED

APPENDIX B

LEGAL PROPERTY DESCRIPTION

Site Name: Mansfield Stamping Plant

Inquiry Number: 2959580.7
01/13/2011

The EDR Environmental LienSearch™ Report

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Milford, CT 06461
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EDR Environmental LienSearch™ Report

The EDR Environmental LienSearch Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

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EDR Environmental LienSearch™ Report

TARGET PROPERTY INFORMATION

ADDRESS

MANSFIELD STAMPING PLANT
2525 W 4TH ST
MANSFIELD, OH 44906-1208

RESEARCH SOURCE

Source 1: Richland County

PROPERTY INFORMATION

Deed 1:

Type of Deed:	Ohio Warranty Deed
Title is vested in:	General Motors Corporation, a Delaware Corp.
Deed Dated:	07/08/1955
Deed Recorded:	07/11/1955
Book:	403
Page:	536
Legal Description:	SITUATED IN THE TOWNSHIP OF SPRINGFIELD, COUNTY OF RICHLAND, STATE OF OHIO, AND BEING MORE FULLY DESCRIBED IN VOLUME 403, PAGE 536 OF THE DEED RECORDS OF RICHLAND COUNTY, OHIO.
Legal Current Owner:	General Motors Corporation, a Delaware Corp.
Property Identifiers:	0386015202000

Deed 2:

Type of Deed:	Ohio Warranty Deed
Title is vested in:	General Motors Corporation, a Delaware Corp.
Deed Dated:	07/08/1955
Deed Recorded:	07/11/1955
Book:	403
Page:	539
Legal Description:	SITUATED IN THE TOWNSHIP OF SPRINGFIELD, COUNTY OF RICHLAND, STATE OF OHIO, AND BEING MORE FULLY DESCRIBED IN VOLUME 403, PAGE 539 OF THE DEED RECORDS OF RICHLAND COUNTY, OHIO.
Legal Current Owner:	General Motors Corporation, a Delaware Corp.
Property Identifiers:	0386015203000 0386015202000 0386015206000

EDR Environmental LienSearch™ Report

Deed 3:

Type of Deed:	Quitclaim Deed
Title is vested in:	General Motors Corporation, a Delaware Corp.
Deed Dated:	07/08/1955
Deed Recorded:	07/11/1955
Book:	403
Page:	555

Legal Description: KNOWN AS THE NORTH HALF OF THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 21, RANGE 19, AND BEING MORE FULLY DESCRIBED IN VOLUME 403, PAGE 555 OF THE DEED RECORDS OF RICHLAND COUNTY, OHIO.

Legal Current Owner: General Motors Corporation, a Delaware Corp.

Property Identifiers: 0386015204000
0386015205000

Deed 4:

Type of Deed:	Ohio Warranty Deed
Title is vested in:	General Motors Corporation, a Delaware Corp.
Deed Dated:	07/08/1955
Deed Recorded:	07/11/1955
Book:	403
Page:	557

Legal Description: SITUATED IN THE TOWNSHIP OF SPRINGFIELD, COUNTY OF RICHLAND, STATE OF OHIO, AND BEING MORE FULLY DESCRIBED IN VOLUME 403, PAGE 557 OF THE DEED RECORDS OF RICHLAND COUNTY, OHIO.

Legal Current Owner: General Motors Corporation, a Delaware Corp.

Property Identifiers: 0386015204000
0386015205000

Deed 5:

Type of Deed:	Warranty Deed
Title is vested in:	General Motors Corporation, a Delaware Corp.
Deed Dated:	08/14/1957
Deed Recorded:	08/16/1957
Book:	442
Page:	439

Legal Description: ALL THAT PARCEL OF LAND LOCTED IN THE TOWNSHIP OF SPRINGFIELD, COUNTY OF RICHLAND, STATE OF OHIO, AND BEING MORE FULLY DESCRIBED IN VOLUME 442, PAGE 439 OF THE DEED RECORDS OF RICHLAND COUNTY, TEXAS.

Legal Current Owner: General Motors Corporation, a Delaware Corp.

Property Identifiers: 0386015204000

EDR Environmental LienSearch™ Report

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULs)

Other AUL's: Found ☐ Not Found ☒

If found:

1st Party:

2nd Party:

Dated:

Recorded:

Book:

Page:

Docket:

Volume:

Instrument:

Comments:

Miscellaneous:

VOL 403 PAGE 536

OHIO WARRANTY DEED No. 31. #71758 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That Albert H. Beer and Florence E. Beer, husband and wife

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~whose mailing address is~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~his~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio and known as part of the Southwest Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning on the south line of said Quarter Section at a point 250.5 feet west from the southeast corner thereof; thence north, parallel with the east line of said Quarter Section, 1896 feet to the old center line of Mansfield-Crestline Road (U.S. 30N); thence northwesterly, along said center line, to the west line of said Quarter Section; thence south to the southwest corner of said Quarter Section; thence east to the place of beginning, containing 122.9 acres, more or less, but subject to all legal highways.

Transferred: July 8, 1955 MLH;bp
Received: July 8, 1955 at 3:52 PM
Recorded: July 11, 1955
Recorder's fee $2.10 D. D. Orewiler
Recorder

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~xhxirx~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee, its successors

~~xhxirx~~ and assigns, that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easements to Logan Natural Gas and Fuel Company and recorded at Lease Volume 4, Pages 391 and 392; except easement to The Marion Reserve Power Company and recorded at Deed Volume 240, Page 123; ~~except easements to Logan Natural Gas and recorded at Deed Volume 403, Page 328~~

VOL 403 PAGE 539

OHIO WARRANTY DEED No. 31. #71759 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That

Tamson M. Craig, unmarried
Hazel M. Craig, unmarried
Ruth F. Craig, unmarried
Edna F. Craig, unmarried

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~whose address is~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~heirs~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio:

Parcel 1.

Being part of the Southeast Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning at the southwest corner of said Quarter Section; thence east, along the south line of said Quarter Section, 47.92 rods; thence north, parallel with the west line of said Quarter Section, to the north line thereof; thence west 47.92 rods to the northwest corner of said Quarter Section; thence south to the place of beginning, containing 47 acres, more or less, but subject to all legal highways. Excepting therefrom that portion lying north of the old center line of Mansfield-Crestline Road (U.S. 30N).

Parcel 2.

Being part of the Southwest Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning at the southeast corner of said Quarter Section; thence west, along the south line of said Quarter Section, 14.3 rods; thence north, parallel with the east line of said Quarter Section, 113.36 rods to the southerly line of old Mansfield-Crestline Road (U.S. 30N); thence easterly, along said southerly line, 14.61 rods to the east line of said Quarter Section; thence south 110.36 rods to the place of beginning, containing 10 acres, more or less, but subject to all legal highways.

Parcel 3.

Being part of the Northeast Quarter of Section 23, Township 21, Range 19 and described as follows: Beginning at the northwest corner of said Quarter; thence south, along the west line of said Quarter, 25 rods; thence east, parallel with the north line of said Quarter, 47.5 rods; thence north, parallel with the west line of said Quarter, 25 rods; thence west, along the north line of said Quarter, 47.5 rods to the place of beginning, containing 7.5 acres, more or less, but subject to all legal highways.

VOL 403 PAGE 540

Transferred: July 8, 1955 NLW; bp.
Received: July 8, 1955 at 3:53 PM
Recorded: July 11, 1955
Recorder's fee $ 2.10 D. D. Orewiler
Recorder

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~heirs~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee

its successors
~~heirs~~ and assigns,

that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; ~~except taxes and assessments~~ except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easement to The Ohio Public Service Company recorded at Deed Volume 215, Page 306; except easement to The Marion Reserve Power Company recorded at Deed Volume 240, Page 88; except easement to Sinclair Refining Company recorded at Deed Volume 286, Page 55; except easements to Ohio Edison Company recorded at Deed Volume 344, Page 160 and Deed Volume 352, Page 25.

VOL 403 PAGE 541

at Deed Volume 344, Page 160 and Deed Volume 352, Page 25.

VOL. 403 PAGE 541

In Witness Whereof, *The said* grantors

who hereby release all their *right and expectancy of Dower in the said premises, ha ve hereunto set* their *hands* this 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five.

Signed and acknowledged in presence of—

Thomas J. McDermott
Bernice Neal

Tamson M. Craig
Tamson M. Craig

Hazel M. Craig
Hazel M. Craig

Ruth F. Craig
Ruth F. Craig

Edna F. Craig
Edna F. Craig

State of Ohio **County of** Richland **ss.**

Be it Remembered, That on the 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five *before me, the subscriber, a* notary public *in and for said county, personally came*

Tamson M. Craig, Hazel M. Craig, Ruth F. Craig, and Edna F. Craig

the grantor s in the foregoing Deed, and acknowledged the signing thereof to be their *voluntary act and deed.*

In Testimony Whereof, *I have hereunto subscribed my name and affixed my* official *seal on the day and year last aforesaid.*

Thomas J. McDermott
Notary public

(1) Include reference to volume and page of next preceding recorded instrument by or through which grantor claims title. (R.C. § 313.29)

VOL 403 PAGE 555

QUITCLAIM DEED

Know all Men by these Presents

That,

Jack Matuck and Goldie Matuck, his wife

, the Grantor(s),

for the consideration of One Dollar and other valuable considerations paid by General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan , the Grantee(s), the receipt of which is hereby acknowleged, do(es) GIVE, GRANT, REMISE, RELEASE and FOREVER QUITCLAIM unto the said Grantee(s), its/successors heirs and assigns, the following described premises, situated in the Township of Springfield , County of Richland and State of Ohio.

Known as the north half of the Northwest Quarter of Section 23, Township 21, Range 19, containing 80 acres, more or less, but subject to all legal highways.

The intention of this deed is to release all of our right, title and interest that we hold as lessees of Lee Gages, Jessie Ruth Harland, Vivian Gages, Eleanor Gages Rinehart, Vera Gages Light (also known as Vera Gages), Margaret Gages Bogantz (also known as Margaret Gages) and Paul Gages, Jr.

VOL 403 PAGE 556

TO HAVE AND TO HOLD the said premises, with appurtenances thereto, unto the said Grantee(s), its/~~successors~~ ~~heirs~~ and assigns forever, so that neither the said Grantor(s) nor their heirs, nor any other person claiming title through or under them, shall or will hereafter claim or demand any right to title to said premises, or any part thereof; but they and every one of them shall, by these presents, be excluded and forever barred.

In Witness Whereof, this deed is executed by the said Grantor(s), this day of July, in the year of our Lord one thousand nine hundred and fifty-five.

Signed and acknowledged in presence of

Wanna Crawford
Edwina L. Matuck

Jack Matuck
Jack Matuck

Goldie Matuck
Goldie Matuck

STATE OF OHIO, Richland County, ss. } Before me, a Notary Public in and for said County, personally appeared the above named Jack Matuck and Goldie Matuck

who acknowledged that they did sign the foregoing instrument, and that the same is their voluntary act and deed.

In testimony whereof, I hereunto set my hand and official seal, at Mansfield, Ohio, this 8th day of July A. D. 1955.

S. Kraus.
Notary Public

STATE OF County, ss. } Before me, a in and for said County, personally appeared the above named

who acknowledged that did sign the foregoing instrument, and that the same is voluntary act and deed.

In testimony whereof, I hereunto set my hand and official seal, at this day of A. D. 19

71779

Quitclaim Deed

Jack Matuck
Goldie Matuck

TO

General Motors Corporation, etc.

Received for Record July 7 1955 at 9 o'clock A.M.
Recorded July 11 1955
in Richland County Records
Volume 403 Page 555-556
A. J. Crawford County Recorder
Recorder's Fee 1.50

McDermott & Associates
LAWYERS
Walpark Building
MANSFIELD, OHIO

VOL 403 PAGE 557

OHIO WARRANTY DEED No. 21. #71780 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That Lee Gages and Ruth E. Gages, his wife; Jessie Ruth Harland (also known as Jessie Ruth Harlan) and Samuel Harlan, her husband; Vivian Gages, now Vivian Gages Martin, and E. Max Martin, her husband; Eleanor Gages Rinehart and Oliver Rinehart, her husband; Vera Gages Light (also known as Vera Gages) and Kenneth D. Light, her husband; Margaret Gages Bogantz (also known as Margaret Gages) and George Bogantz, her husband; Paul Gages, Jr. and Vivian Gages, his wife; Leone Gages, unmarried; Lee Gages as Executor and Trustee under the will of Paul Gages, deceased

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~who~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~heirs~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio and known as the north half of the Northwest Quarter of Section 23, Township 21, Range 19, containing 80 acres, more or less, but subject to all legal highways.

RECEIVED FOR RECORD
July 9 1955
At 11:02 O'clock A. M
Recorded July 11 1955
IN RICHLAND COUNTY RECORDS
Volume 403 Page 557-558-559
D.D. Crawford
Richland County Recorder

2.10

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~xxxxx~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee, its successors

~~heirs~~ and assigns,

that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easement to Sinclair Refining Company (assigned to Sinclair Pipe Line Company) and recorded at Deed Volume 266, Page 53

VOL 403 PAGE 559

In Witness Whereof, *The said* grantors

who hereby release all their right and expectancy of Dower in the said premises, ha ve hereunto set their hand s this 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five.

Signed and acknowledged in presence of—

Bernice Wolf

Bernita Alfabar

Margaret Gages Bogantz

Lee Gages

Leone Gages

Jessie Ruth Harland

Ruth E. Gages

Vivian Gages Martin

E. Max Martin

Samuel Harlan

Eleanor Gages Rinehart

Oliver Rinehart

Vera Gages Light

Kenneth D. Light

George Bogantz

Paul Gages Jr.

Margaret Gages Bogantz

Lee Gages

as Executor and Trustee aforesaid

State of Ohio **County of** Richland **SS.**

Be it Remembered, That on the 9th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five *before me, the subscriber, a* notary public *in and for said county, personally came* Lee Gages, Ruth E. Gages, Jessie Ruth Harland (also known as Jessie Ruth Harlan), Samuel Harlan, Vivian Gages, now Vivian Gages Martin, E. Max Martin, Eleanor Gages Rinehart, Oliver Rinehart, Vera Gages Light (also known as Vera Gages), Kenneth D. Light, Margaret Gages Bogantz (also known as Margaret Gages), George Bogantz, Paul Gages, Jr., Vivian Gages, Leone Gages, and Lee Gages as Executor and Trustee under the will of Paul Gages, deceased *the grantor s in the foregoing Deed, and acknowledged the signing thereof to be their voluntary act and deed.*

In Testimony Whereof, *I have hereunto subscribed my name and affixed my official seal on the day and year last aforesaid.*

Bernice Wolf Bernice Wolf

Notary public

Transferred: .....

Received: .....

Recorded: .....

Recorder's fee $..... D. D. Granville
Recorder

111 Include reference to volume and page of next preceding recorded instrument by or through which grantor claims title. (R.C. §31.28)

Prepared: Aug. 16, 1957 VOL 442 PAGE 439
Norman L. Wolfe, Co. Aud.
10¢ by

#95964

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, That ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, duly authorized to do business in the State of Ohio, and having its principal office at Crawford County Trust Company Building, Meadville, Pennsylvania, GRANTOR, claiming title through Deed in Volume 404, Page 127, Volume 404, Page 129 and in Volume 404, Page 131 Richland County, Ohio, Records, in consideration of the sum of One Hundred Dollars ($100.00) and other good and valuable consideration, to it paid by GENERAL MOTORS CORPORATION, a Delaware corporation, duly authorized to do business in the State of Ohio and having a principal place of business at 3044 West Grand Boulevard, Detroit 2, Michigan, GRANTEE, the receipt whereof is hereby acknowledged, does hereby GRANT, BARGAIN, SELL AND CONVEY to the said GENERAL MOTORS CORPORATION, GRANTEE, its successors and assigns Forever, the following described Real Estate:

All that parcel of land located in the Township of Springfield, County of Richland, State of Ohio, and being a part of the Northwest Quarter of Section 23, Township 21, Range 19, and more particularly described as follows:

BEGINNING at a point on the West line of said Quarter Section, said point being 1330.13 feet, South 1 degree, 50 minutes, 06 seconds East of the Northwest corner of said Quarter Section;

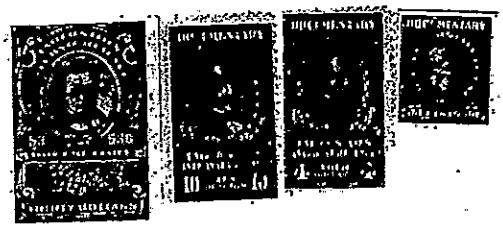
Thence North 89 degrees, 00 minutes, 44 seconds East, 2501.68 feet to the North Right-of-Way line of the Mansfield By-Pass, U.S. Route 30;

Thence South 62 degrees 37 minutes 24 seconds West and along said Right-of-Way line, 2772.35 feet to the West line of Section 23;

Thence North 1 degree, 50 minutes, 06 seconds West along said West line of

NW¼ Sec 23-Twp 21-R19-35.38a

VOL 442 PAGE 441



Revenue Stamps
Affixed $444.95

fifty-seven (1957).

Signed and Acknowledged in the Presence of Us:

ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA

ERIE LAND IMPROVEMENT COMPANY OF PENNSYLVANIA

D. Halter

By W. T. Pierson
Vice President

L. E. Baker

Attest: R. H. Hann
Secretary

STATE OF OHIO)
) ss.
COUNTY OF CUYAHOGA)

BE IT REMEMBERED, That on this 14th day of August, in the year of our Lord one thousand nine hundred and fifty-seven (1957), before me, the subscriber, a Notary Public in and for said County and State, personally appeared W. T. PIERSON, Vice President, and R.H.HANN, Secretary, of ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA, the corporation whose name is subscribed to and which executed the foregoing instrument, and for themselves and as such officers respectively, and for and on behalf of said corporation, acknowledged the signing and execution of said instrument; and acknowledged that the seal affixed to said instrument is the corporate seal of said corporation, that they affixed such corporate seal to, and otherwise executed, said instrument, by authority of the Board of Directors; and on behalf of said corporation; and that the signing and execution of said instrument is their free and voluntary act and deed, their free act and deed as such officers respectively, and the free and voluntary act and deed of said corporation, for the uses and purposes in said instrument mentioned.

IN TESTIMONY WHEREOF, I have hereunto subscribed

my name and affixed my Notarial Seal, on the day and year last aforesaid.

Notary Public, Cuyahoga County, Ohio.

My Commission Expires : VANSTAN LFF NOTARY PUBLIC My Commission Expires Sept. 2, 19[illegible]

This Instrument Prepared by:
F. D. Halter
Attorney-At-Law
Cleveland, Ohio

95964

RECEIVED FOR RECORD
Aug. 16, 1957
At 10:15A.M. o'clock
Recorded Aug. 19, 1957
IN RICHLAND COUNTY RECORDS
Volume 442, Page 439-440-441-442
D.D. Crawford
Richland County Recorder
2.80

Mail to —
Nancy M Hogan
General Counsel
General Motors Corp
30 E 42nd Street Bldg
Detroit 2 Mich

APPENDIX C

STANDARD OPERATING PROCEDURES

SOP APPROVAL FORM

TETRA TECH EM INC.

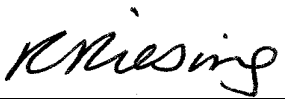
ENVIRONMENTAL STANDARD OPERATING PROCEDURE

SEDIMENT AND SLUDGE SAMPLING

SOP NO. 006

REVISION NO. 4

Last Reviewed: May 2010



Quality Assurance Approved

May 5, 2010

Date

1.0 BACKGROUND

Sediments generally are materials deposited in surface impoundments or in natural waterways such as lakes, streams, rivers, oceans, and sloughs, as well as particulate matter deposited on the marsh or wetland surface.

Sludges are semisolid materials ranging from dewatered solids to high-viscosity liquids. Sludges generally accumulate as residuals of water-bearing waste treatment or industrial process systems. Sludges typically accumulate in tanks, drums, impoundments, or other types of containment systems.

1.1 PURPOSE

This standard operating procedure (SOP) establishes the requirements and procedures for sampling sediment in lakes, streams, and rivers as well as sludge in open drums and shallow tanks (3 feet deep or less) or surface impoundments that are largely accessible. Sludge sampling as it pertains to drums or other containers with smaller or less accessible openings is described in SOP 008..

1.2 SCOPE

This SOP applies to collection of sediment and sludge samples. It provides detailed procedures for gathering such samples with specific equipment.

1.3 DEFINITIONS

Bottom Dredge Grab Sampler: A clamshell-type metal scoop activated by a counter-lever latching system.

Composite Sample: A sample comprised of multiple grab samples representing a physical average of the total number of grab samples.

Discrete Sample: A sample comprised of a portion of material representing conditions present at a single unit of space and time.

Electronic Vibration Corer: A type of sampler that uses an electrically powered vibrating head, which vibrates vertically along the axis of the sampler to penetrate the sediment.

Gravity Corer: Metal tube with a tapered nosepiece on the bottom and a check valve on the top. The nosepiece reduces core disturbance during penetration. The check valve allows air and water to pass through the sampler during deployment and prevents sample loss (washout) during retrieval.

Hand Corer: Thin-wall tube or core barrel sampler. Some models include a tapered nosepiece, a "T" handle to facilitate sampler deployment and retrieval, and a check valve on top. Some models are available with extension handles, core barrel liners, core catchers, and sample extruders.

Transect Sampling: A series of samples collected at several locations oriented in a straight line.

1.4 REFERENCES

American Public Health Association. 1975. "Standard Methods for the Examination of Water and Wastewater." 14th Edition. Washington DC.

Tetra Tech EM Inc. 2003. "Literature Review and Report, Surface-Sediment Sampling Technologies. "Prepared for U.S. Environmental Protection Agency, National Exposure Research Laboratory Environmental Sciences Division, Las Vegas, GSA Contract No. GS-10F-0076K Order No. T0903BHD4832. July 24. On-Line Address: http://www.epa.gov/esd/cmb/research/bs123.pdf

U.S. Environmental Protection Agency (EPA). 1984. "Characterization of Hazardous Waste Sites -- A Methods Manual. Volume II -- Available Sampling Methods." Second Edition. EPA-600/A-84-076. December.

EPA. 1994. "Sediment Sampling." Environmental Response Team SOP #2016 (Rev. #0.0, 11/17/94). On-Line Address: http://www.ert.org/products/2016.PDF

EPA. 2001. "Methods for Collection, Storage and Manipulation of Sediments for Chemical and Toxicological Analyses: Technical Manual." Office of Water. Washington, D.C. EPA/823/B-01/002. October.

AScI Corporation. 2002 "Collecting Sediment Samples by Vibracoring - Standard Operating Procedure." On-line Address: http://www.vibracoring.com/files/CoreSOP.pdf

1.5 REQUIREMENTS AND RESOURCES

The selection of sampling equipment and procedures should be based on project objectives and site-specific conditions such as the type and volume of sediment or sludge to be sampled, sampling depth, and the type of sample required (disturbed or undisturbed). The selected sampling equipment should be constructed of inert materials that will not react with the sediment or sludge being sampled.

The following equipment may be required to sample sediment or sludge:

- Plastic sheeting
- Field logbook
- Stainless steel or disposable spoons or spatulas
- Stainless-steel or disposable scoop or trowel
- Stainless-steel bowls
- Telescoping or fixed-length pole/handle for scoop or trowel
- Hip waders, chest waders, or high rubber boots (depending on water depth)
- Boat (depending on water depth)
- Gravity corer
- Hand corer
- Sludge sampler
- Electronic vibration corer
- Bottom dredge sampler
- Stainless-steel or Teflon® tray
- Nylon rope
- Sample containers and labels
- Chain-of-custody and shipping materials
- Decontamination materials

2.0 PROCEDURES

This section provides general procedures for sampling sediment and sludge. Sections 2.1 through 2.5 specify the methods and equipment to be used for such sampling.

Sediment Sampling

Sediment can be sampled using a stainless-steel scoop or trowel (see Section 2.1), a hand corer (see Section 2.2), a gravity corer (see Section 2.3), an electronic vibration corer (see Section 2.4), or a bottom dredge grab sampler such as a Ponar grab sampler (see Section 2.5). Soil core catchers and brass, polycarbonate plastic, or Teflon® liners are often used with core samplers. A number of factors must be considered when selecting the type of sampler to be used. In streams, lakes, and impoundments, for instance, sediment is likely to demonstrate significant variations in composition.

For stream sediment sampling, the sampling location farthest downstream should be sampled first to avoid cross-contamination. Sediment samples collected in upstream and downstream locations should be obtained in similar depositional environments and, whenever possible, should be obtained from slow-moving pools. In addition, a sediment sample should be collected at approximately the same location as an associated aqueous sample. Aqueous samples should be obtained first to avoid collecting suspended particles that may result from sediment sampling. To avoid disturbing an area to be sampled, sampling locations in streams should always be approached from the downstream side.

Sediment samples collected from lakes and impoundments should also be collected at approximately the same locations as associated aqueous samples. As in stream sampling, aqueous samples should be collected first to avoid collecting suspended particles that may result from sediment sampling. Downgradient and background samples should be collected from similar depositional environments.

Typically, fine-grained sediments should be targeted as they have greater surface area available for adsorption of contaminants. In streams or rivers, low-velocity depositional areas (bends, areas behind obstructions, pooling areas) are preferred sampling locations. High velocity turbulent areas should be avoided, if possible. Samples may be collected at a single location, along a transect line, or as composite samples consisting of material from multiple grab samples.

Often times the top 10 centimeters (approximately top six inches) of sediment is targeted as the sample interval because most benthic organisms are found in this horizon. Sampling multiple locations can provide information on the horizontal distribution of contaminants in a given water body. A column of

sediment can provide information on the vertical distribution of contaminants with depth. Sampling locations, the number of samples to be collected, sampling rationale, and sampling approach (grab, transect, composite, etc.) should be discussed in the project-specific plans.

Exact sampling locations should be documented in field logbooks or on data sheets with respect to fixed reference points or located using global positioning satellite (GPS) technology. In addition, the presence of rocks, debris, or organic material in the sludge or sediment to be sampled may preclude use of some types of samplers or require modification of sampling equipment.

Sludge Sampling

Sludge can often be sampled using a stainless-steel scoop or trowel (see Section 2.1). Frequently sludge forms when components with higher densities settle out of a liquid. When this happens, the sludge may still have an upper liquid layer above the denser components. When the liquid layer is sufficiently shallow, the sludge may be sampled using a hand corer (see Section 2.2). Use of the hand corer is preferred because it results in less sample disturbance. The hand corer also allows for the collection of an aliquot of the overlying liquid. This prevents drying or excessive oxidation of a sample before analysis. The hand corer may also be adapted to hold a brass, polycarbonate plastic, or Teflon® liner.

A gravity corer may also be used to collect samples of most sludges and sediments (see Section 2.3). A gravity corer is capable of collecting an undisturbed sample that profiles the strata present in a sludge or sediment. Depending on the weight of the gravity corer and the density of the sludge or sediment, a gravity corer may penetrate the material up to 30 inches. If the layer is shallow (less than 1 foot), gravity corer and hand corer penetration may damage any underlying liner or confining layer. In such situations, a Ponar grab sampler may be used because it is generally capable of penetrating only a few inches (see Section 2.4).

The following subsections specify methods for sediment and sludge sampling with specific equipment.

2.1 SAMPLING WITH A SCOOP OR TROWEL

Sediment or sludge samples may be collected with a simple scoop or trowel. This method is more applicable to sludge but can be used for sediments provided that the water is very shallow (a few inches). However, using a scoop or trowel may disrupt the water-sediment interface and cause substantial sample alteration. This method provides a simple, quick means of collecting a disturbed sample of sludge or sediment.

The following procedure can be used for sampling sludge or sediment with a scoop or trowel:

1. Place all sampling equipment on plastic sheeting next to the sampling location Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Carefully insert a pre-cleaned scoop or trowel into the sludge or sediment and remove the sample. In the case of sludge exposed to air, remove the first 2 to 4 inches of material before collecting the sample. In the case of collecting sediment with abundant debris or vegetation at the surface, carefully remove the debris (avoid disturbing the sediment to the extent possible) before collecting the sample.

4. When compositing a series of grab samples, combine the samples in a stainless-steel bowl or Teflon® tray. Record pertinent information in the field logbook (sample description, color, odor, texture, etc.) or in a field data collection form, if applicable. If samples are to be collected for VOC analysis, fill the appropriate VOC containers first before compositing the sample and logging the sample information.

5. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

6. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

7. Ensure that a Teflon® liner is present in the sample container cap, if required. Secure the cap tightly on the sample container.

8. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before and during shipment.

9. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

2.2 SAMPLING WITH A HAND CORER

The hand corer, sometimes called a hand auger (see Figure 1), is used in the same situations and for the same materials as those described for the use of a scoop or trowel (see Section 2.1). However, the hand

corer may be used to collect an undisturbed sample that can profile any stratification resulting from changes in material deposition thus allowing for sampling of the specific layer or layers of interest.

The exact type of hand corer will vary depending on the manufacturer, but the operational procedures discussed below are applicable to most types of hand corers. For example, some hand corers can be fitted with extension handles that allow collection of samples underlying a shallow layer of liquid. Most hand corers can be fitted with core catchers (Figure 1) to prevent sample loss upon retrieval and they can be adapted to hold liners, which are generally available in brass, polycarbonate plastic, or Teflon®. The type of hand corer and liner material should be chosen that will not compromise the intended analytical procedures.

The following procedure can be used for sampling sludge or sediment with a hand corer:

1. Place all sampling equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Position a pre-cleaned hand corer above the sampling location. If the sediment or sludge is non-cohesive, insert a core catcher into the end of the sampler. Carefully deploy the hand corer into the sludge or sediment using a smooth, continuous motion. Gently rotating the corer while it is being pushed may facilitate greater penetration and decrease core compaction.

4. When the hand corer is at the desired depth, rotate the “T” handle or the core barrel and retrieve the hand corer using a single, smooth motion. If the hand corer does not include a “T” handle, cap the top of the core barrel with your hand to provide additional suction during retrieval.

5. Remove the core catcher and nosepiece (if applicable) and extract the sample. Place the sample on a clean stainless-steel or Teflon® tray. When compositing a series of grab samples, combine the samples in a stainless-steel bowl or Teflon® tray. Record pertinent information in the field logbook (sample description, color, odor, etc.) or in a field data collection form, if applicable. If samples are to be collected for VOC analysis, fill the appropriate VOC containers first before compositing the sample and logging the sample information.

6. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

7. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

8. Ensure that a Teflon® liner is present in the sample container cap, if required. Secure the cap tightly on the sample container.

9. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before and during shipment.

10. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

2.3 SAMPLING WITH A GRAVITY CORER

A gravity corer (see Figure 2) can collect essentially undisturbed samples to profile strata that develop in sediment and sludge during the deposition process. Depending on the sediment or sludge density and the gravity corer's weight, the sampler typically can penetrate the sediment or sludge to a depth of 30 inches, using the weight of the sampler to assist penetration. A gravity corer is lowered into the sediment from a fixed support (such as a boat or a portable tripod pole system).

Gravity corers should be used carefully in open drums, shallow tanks, or lagoons with liners. A gravity corer could penetrate beyond the sludge or sediment layer and damage the liner material.

The following procedure can be used for sampling sediment or sludge with a gravity corer:

1. Place all sampling equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Attach the required length of sample line to a pre-cleaned gravity corer. Braided, 3/16-inch nylon line is sufficient; however, 3/4-inch nylon line is easier to grasp during hoisting.

4. Secure the free end of the line to a fixed support to prevent accidental loss of the gravity corer.

5. Position the gravity corer above the sampling location. Allow the gravity corer to fall freely through the liquid and penetrate the sludge or sediment layer.

6. Retrieve the gravity corer with a smooth, continuous lifting motion. Do not bump the corer, as this may result in some sample loss.

7. Remove the core catcher and nosepiece (if applicable) from the gravity corer. Slide the sample out of the corer into a stainless-steel or Teflon® pan. When compositing a series of grab samples, combine the samples in a stainless-steel bowl or Teflon® tray. Record pertinent information in the field logbook (sample description, color, odor, etc.) or in a field data collection form, if applicable. If samples are to be collected for VOC analysis, fill the appropriate VOC containers first before compositing the sample and logging the sample information.

8. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

9. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

10. Ensure that a Teflon® liner is present in the sample container cap, if required. Secure the cap tightly on the sample container.

11. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before and during shipment.

12. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

2.4 SAMPLING WITH AN ELECTRONIC VIBRATION CORE SAMPLER

Electronic vibration corers are commonly used core samplers because they can retrieve deep core samples in most types of sediment. For example, electronic vibration corers can be used from a boat to collect a sample from the shallow sea floor. Vibration corers typically are not appropriate for sludge sampling as they could penetrate beyond the sludge layer and damage the liner material of a container.

Vibration samplers have an electrically powered vibrating head, which vibrates vertically along the axis of the sampler to penetrate the sediment (Figure 3). The core barrel and liner are inserted into the head of the vibrator and the entire assembly is lowered into the water. A vibrating core sampler can penetrate compact sediments and collect core samples up to 10 meters long depending on the type of system used, the horsepower of the vibrating head, and weight of the sampler.

The two general types of vibrating core systems typically used include larger boat-deployed systems and portable pole systems. Larger vibrating core samplers require the use of an appropriately sized boat to maintain balance and provide adequate lift to break the head of the corer out of the sediment for sample retrieval (EPA 2001).

The following procedure can be used for sampling sediment with a submersible boat-deployed vibration corer:

1. Place all sampling equipment on plastic sheeting next to the sampling location if working next to the shore or stream bank. Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Securely attach the vibrating corer assembly to the winch cable.

4. Position the vibrating corer above the sampling location. Using the winch, suspend and lower the corer until the core tube contacts the bottom.

5. Begin vibration and continue penetration until the core tube is fully buried or refusal occurs. Care should be taken to keep the cable taught ensuring that the core tube is vertical. Turn off vibration when coring is completed.

6. Retrieve the vibration corer with the winch, using vibration only if extraction is difficult. Keep the core tube in a near vertical position once retrieved.

7. Remove the core catcher, nosepiece, and liner from the core tube. Cap the ends of the liner, label the liner to identify the location, sample number, time of collection, and date. Transfer the sample on-shore for further processing. Record pertinent information in the field logbook (sample description, color, odor, etc.) or in a field data collection form, if applicable.

8. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

9. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

10. Ensure that a Teflon® liner is present in the sample container cap, if required. Secure the cap tightly on the sample container.

11. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before shipment.

12. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

The following procedure can be used for sampling sediment with a portable pole system vibration corer:

1. Place all sampling equipment on plastic sheeting next to the sampling location if working next to the shore or stream bank. Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Securely attach the retrieval lines to the core tube mounting cap.

4. Insert liner tube (core catcher end down) into mounting clamp and hand-tighten wing nuts evenly.

5. Insert desired length extension pole into mounting plate socket and secure with bolt and locknut. Slip flared lower end of the extension tube over the check-valve end of the core tube adapter while applying tension on the retrieval lines. Lower the system carefully until it contacts the bottom.

6. Press and vibrate the core tube until it is fully buried or refusal occurs. Note the depth of penetration by markings on the extension pole. Turn off vibration when coring is completed.

7. Disconnect the extension pole and manually retrieve the vibration corer with the retrieval lines or use a hand winch, if necessary. Keep the core tube in a near vertical position once retrieved.

8. Remove the core catcher, nosepiece, and liner from the core tube. Cap the ends of the liner, label the liner to identify the location, sample number, time of collection, and date. Transfer the sample on-shore for further processing. When compositing a series of grab samples, combine the samples in a stainless-steel bowl or Teflon® tray. Record pertinent information in the field logbook (sample description, color, odor, etc.) or in a field data collection form, if applicable. If samples are to be collected for VOC analysis, fill the appropriate VOC containers first before compositing the sample and logging the sample information.

9. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

10. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

11. Ensure that a Teflon® liner is present in the sample container cap. Secure the cap tightly on the sample container.

12. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before and during shipment.

13. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

2.5 SAMPLING WITH A BOTTOM DREDGE SAMPLER

Bottom dredge samplers are typically used to sample sediments that cannot be easily collected using trowels, scoops, or coring devices or in cases where large quantities of sample are desired. Bottom dredge samples are particularly effective when sampling from a boat where there are several feet of water above the sediment surface. Several types and sizes of dredges exist including the Peterson, Eckman, and Ponar. Dredges can be activated upon contact with the sediment or by using a "messenger" to close the buckets. The procedures discussed below are applicable to sampling with a Ponar dredge sampler. A Ponar grab sampler (see Figure 4) can be used to sample most types of sludges and sediments. A Ponar grab sampler is used by holding the grab sampler above the area to be sampled and lowering the grab sampler until it makes contact with the sediment. Its penetration depth into the sediment usually does not exceed several inches. The Ponar grab sampler, like other grab samplers, cannot collect undisturbed samples; therefore, this sampler should be used only after all overlying water samples have been collected.

The following procedure can be used for sampling sludge or sediment with a Ponar grab sampler:

1. Place all sampling equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements in SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

2. Affix a completed sample container label to the appropriate sample container.

3. Attach the required length of sample line to a precleaned Ponar grab sampler. Braided, 3/4-inch nylon line is recommended for ease in hoisting.

4. Measure the distance from the water surface or other reference point to the top of the sludge or sediment. Mark this measurement on the sample line. To avoid unnecessary disturbance of the sludge or sediment from lowering the Ponar grab sampler too quickly, it is recommended that a second mark be made on the sample line to indicate the proximity of the reference mark.

5. Open the Ponar sampler's jaws until they are latched. The jaws will be triggered if the Ponar sampler comes in contact with or is supported by anything other than the sample line. Tie the free end of the sample line to a fixed support.

6. Position the Ponar grab sampler above the sampling location. Lower the sampler until the proximity mark is reached. Then, slowly lower the Ponar grab sampler until it touches and penetrates the sludge or sediment.

7. Allow the sample line to slacken a few inches to release the latching mechanism that closes the sampler's jaws. As the jaws close, they scoop the sludge or sediment up into the sampler. More slack may be required when sampling in surface waters with strong currents.

8. Retrieve the sampler, open the jaws carefully, and release its contents into a stainless-steel or Teflon® tray. When compositing a series of grab samples, combine the samples in a stainless-steel bowl or Teflon® tray. Record pertinent information in the field logbook (sample description, color, odor, etc.) or in a field data collection form, if applicable. If samples are to be collected for VOC analysis, fill the appropriate VOC containers first before compositing the sample and logging the sample information.

9. Transfer the sample into the labeled container using a stainless-steel or plastic spoon, spatula, or similar tool.

10. If required, preserve the sample in accordance with SOP No. 016, Sample Container, Preservation, and Maximum Holding Time Requirements.

11. Ensure that a Teflon® liner is present in the sample container cap, if required. Secure the cap tightly on the sample container.

12. Complete all chain-of-custody documents, field logbook entries, and sample packaging requirements. Samples are typically stored in coolers on ice before and during shipment.

13. Decontaminate all nondisposable sampling equipment after each use and between sampling locations using the procedures in SOP No. 002, General Equipment Decontamination.

FIGURE 1

HAND CORER

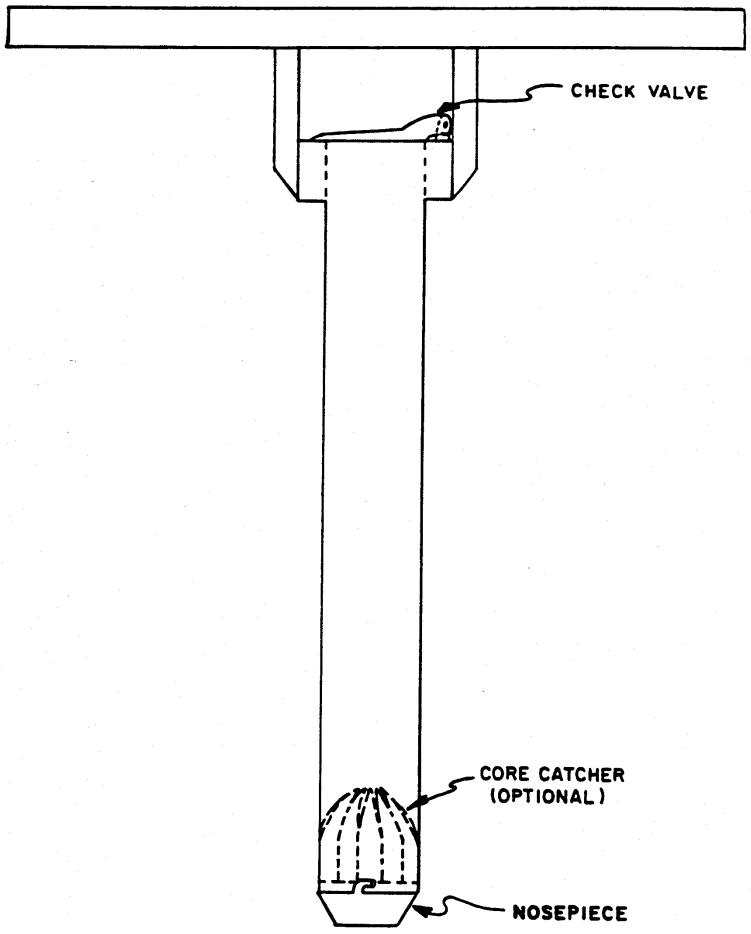


FIGURE 2

GRAVITY CORER

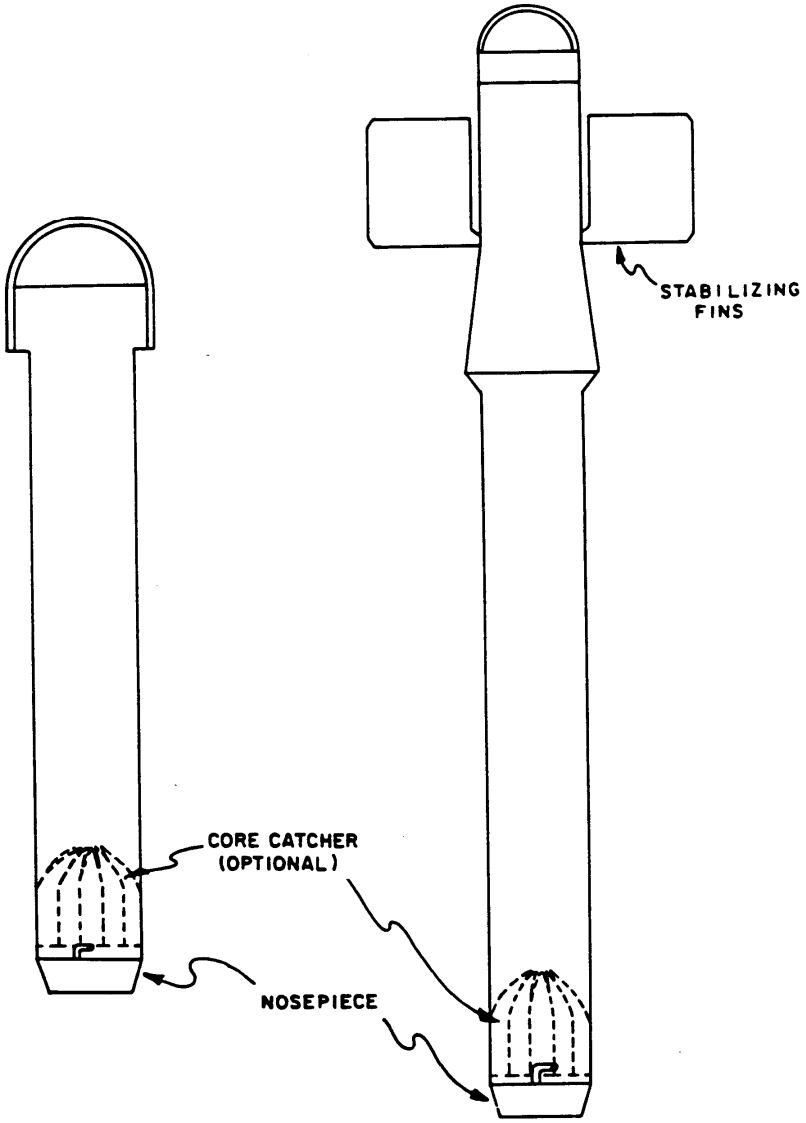


FIGURE 3

VIBRACORE SAMPLER

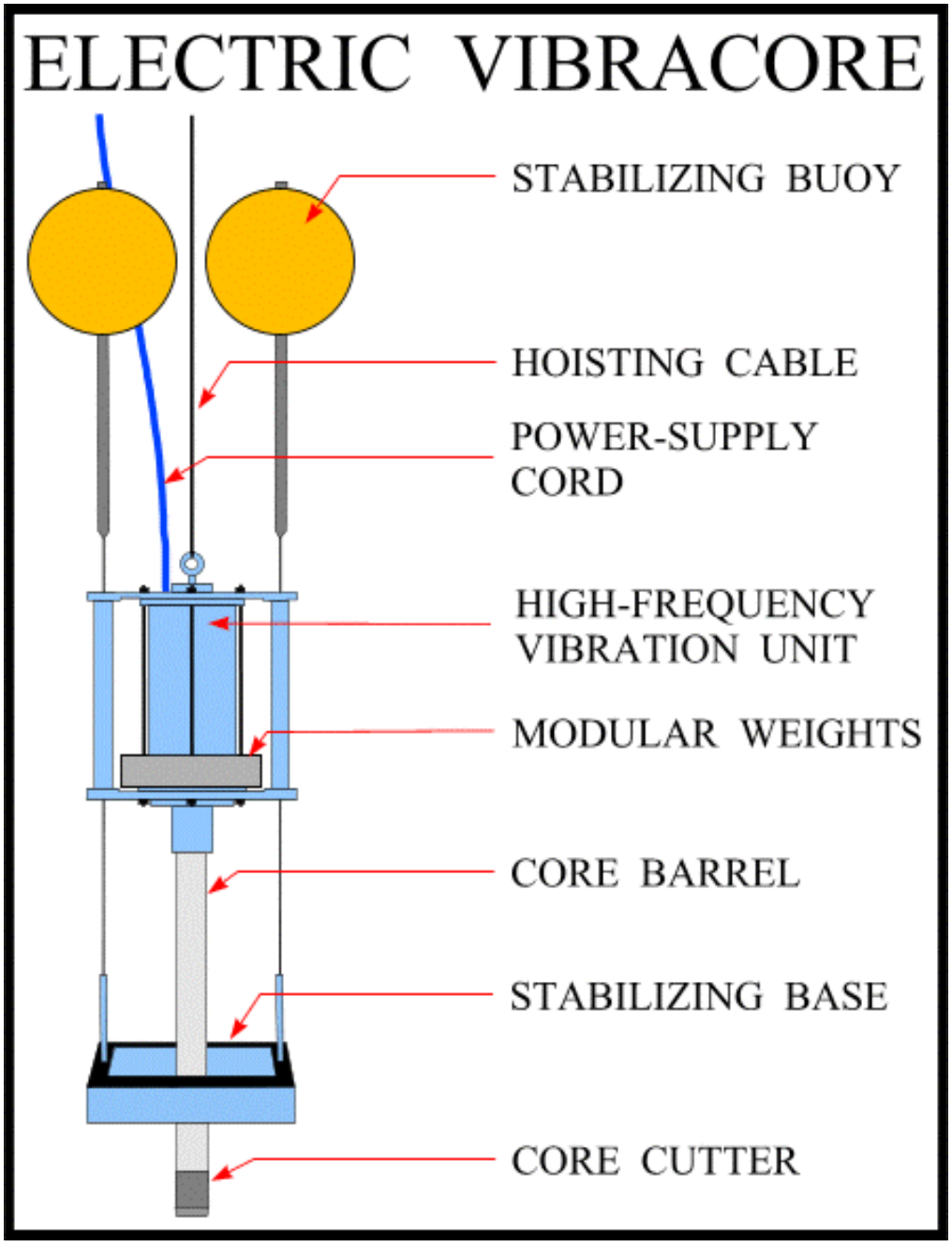
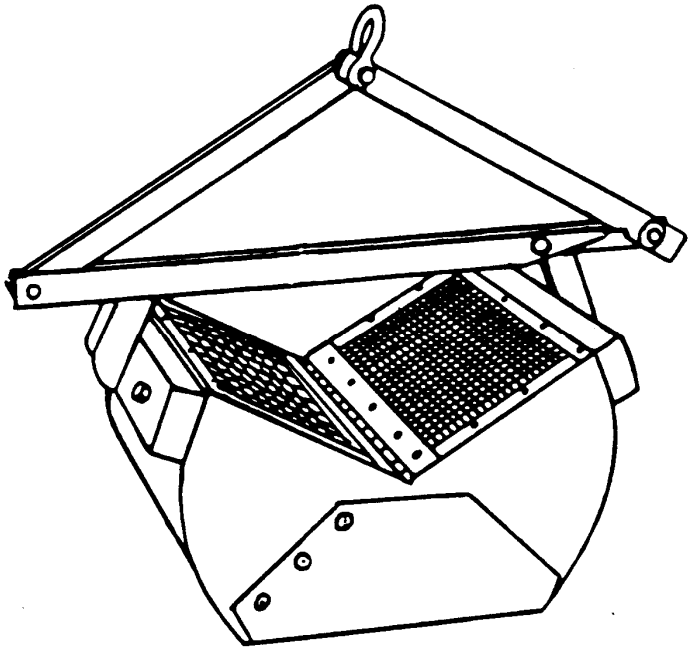


FIGURE 4

BOTTOM DREDGE GRAB SAMPLER



SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

SURFACE WATER SAMPLING

SOP NO. 009

REVISION NO. 4

Last Reviewed: June 2009

Quality Assurance Approved

6-19-09

Date

1.0 BACKGROUND

Surface water sampling is conducted to determine the quality of surface water entering, leaving, or affected by a site. Surface water bodies that can be sampled include streams, rivers, lakes, ponds, lagoons, and surface impoundments. This standard operating procedure (SOP) discusses common methods of collecting grab samples that represent water quality in a water body at a particular point in time.

A series of grab samples also can be composited to represent water quality over a longer period of time. Composite samples can be flow proportional or time proportional. The details of compositing water samples are not included in this SOP.

1.1 PURPOSE

This SOP establishes the requirements and procedures for surface water sampling.

1.2 SCOPE

This SOP applies to surface water sampling and the instruments and methods used to collect the samples.

1.3 DEFINITIONS

Kemmerer Sampler: A messenger-activated water sampling device. Water flows through the device until the release mechanism is triggered to close the container.

Peristaltic Pump: A rotary, positive-displacement pumping device characterized by its low suction and rhythmic operation, and by the fact that the pump does not come into direct contact with the water being sampled.

Pond Sampler: A sampling device fabricated by using an adjustable beaker clamp to attach a beaker to a telescoping, heavy-duty aluminum pole.

1.4 REFERENCES

U.S. Environmental Protection Agency (EPA). 1977. "Procedures Manual for Ground Water Monitoring at Solid Waste Disposal Facilities." EPA-530/SW-611. August.

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EPA. 1984. "Characterization of Hazardous Waste Sites — A Methods Manual, Volume II. Available Sampling Methods." Second Edition. EPA-600/4-84-076. December.

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EPA. 2007. "Operating Procedure – Surface Water Sampling." Science and Ecosystem Support Division. SCSDPROC-201-R1. November.

1.5 REQUIREMENTS AND RESOURCES

Surface water sampling requires a variety of procedures and instruments. The choice of procedure should be determined by site-specific conditions, such as the type of surface water body, the sampling depth, and the sample location's distance from shore.

Samples can be collected from shallow depths by submerging the sample container. An intermediary disposable collection container or one constructed of a nonreactive material also may be used. A pond sampler, a peristaltic pump, or a Kemmerer sampler may be used to provide extended reach. The following equipment may be required to sample surface water:

- Decontamination materials
- Sample containers and labels
- Point-source bailer
- Dipper
- Boat
- Pond sampler
- Peristaltic pump with batteries or power source
- Silicone tubing
- Heavy-wall Teflon® tubing

- Kemmerer sampler
- Bucket
- Logbook or field data sheets
- Chain-of-custody documentation
- Shipping materials

2.0 PROCEDURES

Safe access, handling, and other physical limitations should be influential factors during surface water sampling. A site-specific sampling plan should delineate which of the procedures described below will be used. Any deviations from the sampling plan should be recorded in the site-specific field logbook.

The following subsections provide detailed procedures for surface water sampling using specific instruments and methods. In all cases, select a sampling location where the water quality will best represent the water chemistry of the water body. Avoid stagnant or fast-moving areas. Do not sample immediately downstream of incoming tributaries, because of the likelihood of incomplete mixing.

2.1 SURFACE WATER SAMPLING BY SUBMERGING SAMPLE CONTAINER

Samples from shallow depths should be collected by submerging the sample container. This method is advantageous when the sample might be significantly altered during transfer from a collection vessel into another container. This method should not be used for sampling lagoons or surface impoundments where contact with contaminants is a potential concern.

The following procedure can be used for sampling surface water by submerging the sample container:

1. Place all equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements specified in the project-specific field work plan, field sampling plan, or quality assurance project plan (QAPP).

2. If required by the project, collect field parameter measurements using procedures in relevant specific Tetra Tech SOPs and project-specific field sampling plan. Record this information on the field sheet or in the logbook.

3. A visual check for visible surface material (pond scum or ice) should be performed before sampling. If present, surface water samples should be collected by directly

submerging the sample container (with lid still on) into the surface water at the specified sampling location. Avoid contacting the bottom of the water body with the sample container because this will disturb sediment that may interfere with the surface water sample. Once submerged, the lid should be removed to allow the container to fill with water below any visible material on the surface of the water. A visual check should be conducted during and after sample collection to ensure sample integrity. If no surface materials are present, sample as instructed below.

4. For stream sampling, sample the location farthest downstream first. In general, work from zones suspected of low contamination to zones of high contamination. Orient the mouth of the sample container facing upstream while standing downstream so as not to stir up any sediment that would contaminate the sample. Avoid contacting the bottom of the water body with the sample container because this will disturb sediment that may interfere with the surface water sample.

5. For a larger body of surface water, such as a lake, collect samples near the shore, unless boats are feasible and permitted. Collect samples from shallow depths by submerging the sample container. Avoid contacting the bottom of the water body with the sample container because this will disturb sediment that may interfere with the surface water sample. If sampling from a boat, collect the sample as far away as possible from the outboard engine to avoid possible fuel contamination.

6. If sediment samples are to be collected (using procedures in SOP No. 006 [Sludge and Sediment Sampling]) with surface water samples, collect surface water samples at each location before collecting sediment samples to avoid contaminating the water samples with excess suspended particles generated during sediment sampling.

7. Continue delivery of the sample until the container is almost full. If sampling for volatile organic compounds (VOC) or other analytical parameters requiring pre-preserved sample containers, the use of a transfer device is recommended so that the preservative is not displaced.

8. Preserve the sample in accordance with requirements specified in the project-specific field work plan, field sampling plan, or QAPP. Ensure that a Teflon® liner is present in the cap of the sample container if required. Secure the cap tightly and affix a completed sample label to the container.

9. Complete all chain-of-custody documentation, field logbook entries, and sample packaging requirements.

2.2 SURFACE WATER SAMPLING WITH TRANSFER DEVICE

A dipper, bailer, or other device made of inert material, such as stainless steel or Teflon®, can be used to transfer liquid samples from their source to a sample container. This prevents contamination of the outside of the sample container as a result of direct immersion in surface water. Depending on the sampling application, the transfer device may be either disposed of or reused. If reused, the device should be thoroughly rinsed and decontaminated in accordance with SOP 002 (General Equipment Decontamination), prior to sampling a different source.

A transfer device can be used in most sampling situations, and is preferred when (1) direct contact or physical access limitations pose a health and safety concern and (2) sample containers are pre-preserved. However, direct collection by submerging the sample container is the preferred method when possible.

The following procedure can be used for sampling surface water with a dipper, bailer, or other transfer device:

1 Place all equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements specified in the project-specific field work plan, field sampling plan, or QAPP.

2. If required by the project, collect field parameter measurements using procedures in relevant specific Tetra Tech SOPs. Record this information on the field sheet or in the logbook.

3. With minimal surface water disturbance, submerge a precleaned dipper, bailer, or other transfer device.

4. Allow the device to fill slowly and continuously.

5. Retrieve the device from the surface water with minimal disturbance.

6. Remove the cap from the sample container. Slightly tilt the mouth of the container below the edge of the transfer device.

7. Empty the device slowly, allowing the sample to flow gently down the inside of the container with minimal entry turbulence. Continue delivery of the sample until the container is almost full. If sampling for VOCs, the container must be completely filled leaving no head space.

8. Preserve the sample in accordance with requirements specified in the project-specific field work plan, field sampling plan, or QAPP. Ensure that a Teflon® liner is present in

the cap of the sample container if required. Secure the cap tightly and affix a completed sample label to the container.

9. Complete all chain-of-custody documentation, field logbook entries, and sample packaging requirements.

10. Decontaminate the transfer device prior to reuse or storage using the procedures in SOP No. 002 (General Equipment Decontamination).

2.3 SURFACE WATER SAMPLING WITH POND SAMPLER

A pond sampler may be used to collect liquid samples from ponds, pits, and lagoons (see Figure 1). A pond sampler is easily and inexpensively fabricated. To construct a pond sampler, use an adjustable clamp to attach a sampling beaker to the end of a two- or three-piece telescoping aluminum tube. The telescoping tube serves as the handle. All nondisposable equipment should be cleaned before and after each use.

The following procedure can be used for sampling surface water with a pond sampler:

1. Place all equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements specified in the project-specific field work plan, field sampling plan, or QAPP.

2. If required by the project, collect field parameter measurements using procedures in relevant specific Tetra Tech SOPs. Record this information on the field sheet or in the logbook.

3. Assemble the pond sampler. Ensure that the sampling beaker, bolts, and nuts securing the clamp to the pole are tightened properly.

4. Collect the sample by slowly submerging the precleaned beaker with minimal surface water disturbance.

5. Retrieve the pond sampler from the surface water with minimal disturbance.

6. Remove the cap from the sample container. Slightly tilt the mouth of the container below the edge of the beaker.

7. Empty the beaker slowly, allowing the sample to flow gently down the inside of the container with minimal entry turbulence. Continue delivery until the container is almost full. If sampling for VOCs, the container must be completely filled leaving no head space.

8. Preserve the sample in accordance with requirements specified in the project-specific field work plan, field sampling plan, or QAPP. Ensure that a Teflon® liner is present in the cap of the sample container if required. Secure the cap tightly and affix a completed sample label to the container.

9. Complete all chain-of-custody documentation, field logbook entries, and sample packaging requirements.

10. Decontaminate the pond sampler prior to reuse or storage using the procedures in SOP No. 002 (General Equipment Decontamination).

2.4 SURFACE WATER SAMPLING WITH PERISTALTIC PUMP

To extend reach in sampling efforts, a small peristaltic pump can be used (see Figure 2). A peristaltic pump draws the sample through heavy-wall Teflon® tubing and pumps it directly into the sample container. Use of a peristaltic pump allows the operator to reach out into a liquid body, to sample from a depth or to sweep the width of a narrow stream. A battery-powered pump is preferable because it eliminates the need for a direct current generator or an alternating current inverter.

If medical-grade silicone tubing is used in the peristaltic pump, it is suitable for sampling almost any parameter, including most organics. However, some VOC stripping may occur and some sample material may adhere to the tubing. Teflon® tubing may be used in place of silicone tubing on the intake side of the pump to minimize the amount of sample adherence to the tubing. If tubing is to be reused, it should be cleaned before and after each use following the procedures specified in SOP No. 002 (General Equipment Decontamination). Depending on project requirements, it may be necessary to replace the Teflon® intake tubing and the pump silicone tubing between sampling locations to prevent cross contamination.

Procedures for sampling surface water with a peristaltic pump are as follows:

1. Place all equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements specified in the project-specific field work plan, field sampling plan, or QAPP.

2. If required by the project, collect field parameter measurements using procedures in relevant specific Tetra Tech SOPs. Record this information on the field sheet or in the logbook.

3. Install clean, medical-grade silicone tubing in the pump head according to the manufacturer's instructions. Allow enough tubing on the discharge side to facilitate

delivery of liquid into the sample container. Allow only enough tubing on the suction end for attachment to the intake line. This will minimize sample contact with the tubing.

4. Select the length of intake tubing needed to reach the required sample location. Attach it to the intake side of the pump tubing. Heavy-wall Teflon® tubing of a diameter equal to that of the required pump tubing suits most applications. A heavier tubing wall will allow slightly greater lateral reach.

5. If possible, allow several liters of surface water to pass through the pump before collecting the sample. Collect this purge volume. Return it to the source after the samples have been withdrawn.

6. Fill the sample container by allowing the pump discharge to flow gently down the inside of the bottle with minimal entry turbulence. Continue delivery of the sample until the container is almost full.

7. If sampling for VOCs, the VOC sample must be collected using one of the "soda straw" variations. Ideally, the tubing intake will be placed at the depth from which the sample is to be collected and the pump will be run for several minutes to fill the tubing with water representative of that interval. After several minutes, the pump is turned off and the tubing string is retrieved. The pump speed is then reduced to a slow pumping rate and the pump direction is reversed. After the pump is turned back on, the sample stream is collected into the VOC vials as it is pushed from the tubing by the pump. Care must be taken to prevent any water that was in contact with the peristaltic pump head tubing from being incorporated into the sample.

8. Preserve the sample in accordance with requirements specified in the project-specific field work plan, field sampling plan, or QAPP. Ensure that a Teflon® liner is present in the cap of the sample container if required. Secure the cap tightly and affix a completed sample label to the container.

9. Complete all chain-of-custody documentation, field logbook entries, and sample packaging requirements.

10. Allow the pump to drain, and then disassemble it. Decontaminate the tubing before reuse using the procedures in SOP No. 002 (General Equipment Decontamination), or dispose of it.

2.5 SURFACE WATER SAMPLING WITH KEMMERER SAMPLER

The Kemmerer sampler (see Figure 3) is used to collect surface water samples when the required sample depth is greater than that which can be sampled with a pump. A Kemmerer sampler may be constructed of various materials to be compatible with the required analytical technique. The sampler should be cleaned before and after each use.

Procedures for sampling surface water with a Kemmerer sampler are as follows:

1. Place all equipment on plastic sheeting next to the sampling location. Sample containers should be selected in accordance with the requirements in specified in the project-specific field work plan, field sampling plan, or QAPP.

2. If required by the project, collect field parameter measurements using procedures in relevant specific Tetra Tech SOPs. Record this information on the field sheet or in the logbook.

3. Inspect the body of the Kemmerer sampler to ensure that the drain line valve is closed, as appropriate. Measure and mark the sample line (cable) at the desired sampling depth.

4. Open the sampler by lifting the upper stopper-trip head assembly.

5. Gradually lower the sampler into the surface water until the sample liquid reaches the sample line.

6. Place a messenger on the sample line and release it, closing the sampler.

7. Retrieve the sampler. Prevent accidental opening of the lower stopper by holding the center rod of the sampler.

8. Rinse or wipe off the exterior of the sampler. Recover the sample by grasping the lower stopper and sampler body with one hand. Transfer the sample by lifting the upper stopper with the other hand and carefully pouring the contents into the sample container. If a drain line valve is present, hold the valve over the sample container, and open the valve slowly to release the sample.

9. Transfer the sample slowly, allowing it to flow gently down the inside of the container with minimal entry turbulence. Continue delivery until the container is almost full. If sampling for VOCs, the container must be completely filled leaving no head space.

10. Preserve the sample in accordance with requirements specified in the project-specific field work plan, field sampling plan, or QAPP. Ensure that a Teflon® liner is present in the cap of the sample container if required. Secure the cap tightly and affix a completed sample label to the container.

11. Complete all chain-of-custody documentation, field logbook entries, and sample packaging requirements.

12. Decontaminate the Kemmerer sampler prior to reuse or storage using the procedures in SOP No. 002 (General Equipment Decontamination).

2.6 SURFACE WATER SAMPLING WITH BUCKET

A plastic bucket is used to collect surface water samples for measurement of water quality parameters (such as pH, temperature, and conductivity) or classical water quality parameters (ammonia, nitrate-nitrite, phosphorus, and total organic carbon). This method is not recommended for collecting samples for chemical analysis. A bucket is commonly used to collect a sample when the water depth is too great for wading, it is not possible to deploy a boat, or access is restricted (excessive vegetation or steep embankments) and the water column is well mixed. The water body is usually accessed from a bridge. The bucket is lowered by rope over the side of the bridge and, upon retrieval, the water is poured into the appropriate sample containers.

FIGURE 1

POND SAMPLER

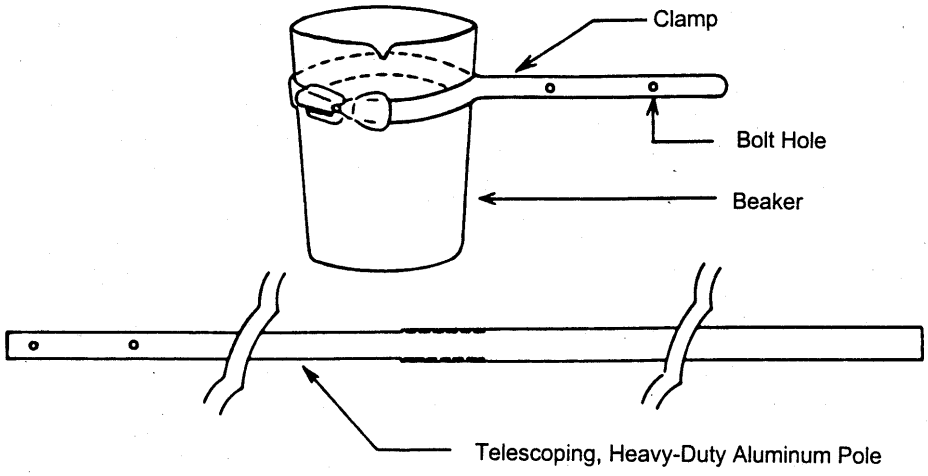


FIGURE 2

PERISTALTIC PUMP FOR LIQUID SAMPLING

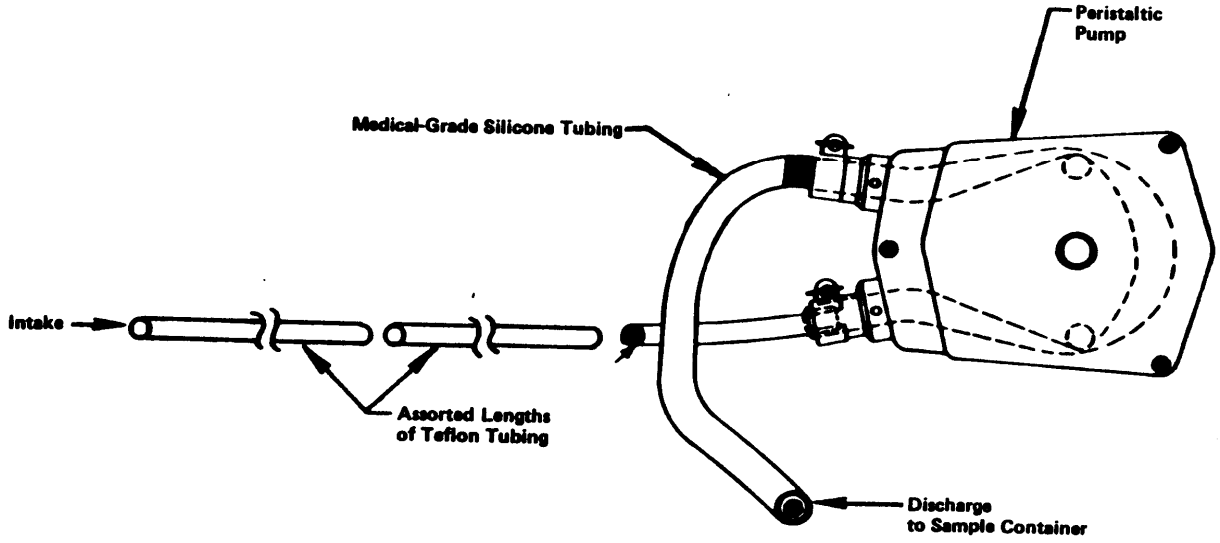
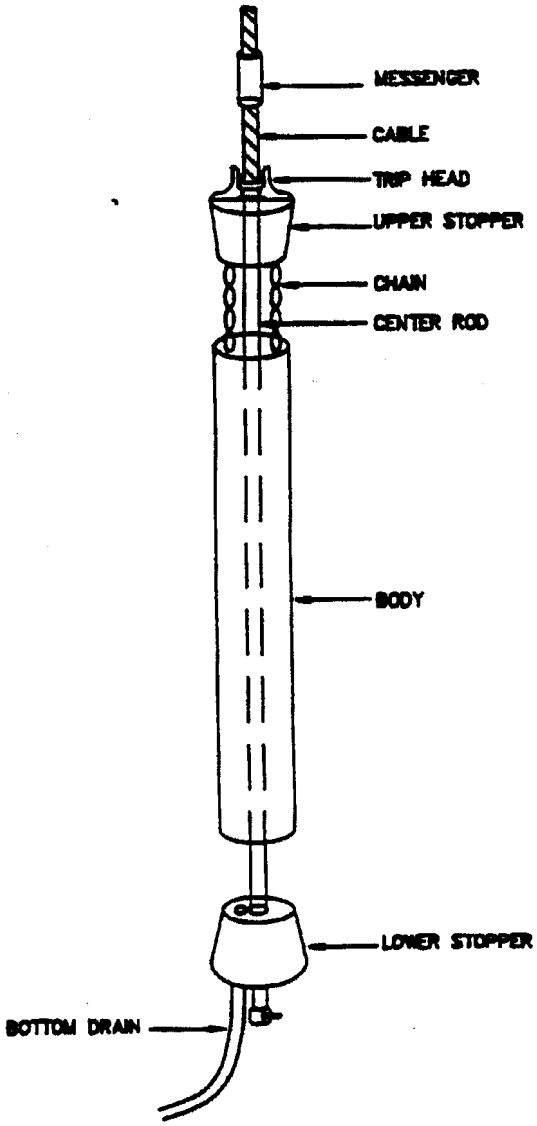


FIGURE 3

KEMMERER SAMPLER



SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

FIELD MEASUREMENT of pH

SOP NO. 012

REVISION NO. 3

Last Reviewed: November 1999

Quality Assurance Approved

May 18, 1993

Date

1.0 BACKGROUND

Determining pH is critical for predicting and interpreting the reactions and migration of dissolved chemical constituents in groundwater or surface water. The pH of groundwater or surface water must be determined when a sample is collected in the field.

1.1 PURPOSE

This standard operating procedure (SOP) establishes the requirements and procedures for measuring the pH of water samples in the field.

1.2 SCOPE

This SOP applies to the use of pH meters in the field.

1.3 DEFINITIONS

pH Electrode: An electrode that measures the hydrogen ion potential of a solution by comparing it to a standard solution with a known hydrogen ion potential. A thin glass membrane functions as a cation exchange surface. When the electric potential of the interior of the glass membrane is compared to the electric potential of a standard solution kept isolated from the environment, a quantitative determination of the change in the internal solution's electric potential, induced by the external solution, can be made.

Nernst Potential: Nernst Potential is the voltage observed when the glass membrane separates the external solution from the internal solution. Nernst Potential varies depending on the hydrogen ion potential between the external and internal solutions and, therefore, correlates with the pH of the solution. Because the hydrogen ion content of the internal solution is constant, the changes in Nernst Potential are due to the changes in the external solution.

Buffer Solution: A buffer solution is capable of maintaining the relative concentrations of acids and bases by neutralizing, within limits, added acids or bases. It has a known pH for a specific temperature range.

1.4 REFERENCES

None

1.5 REQUIREMENTS AND RESOURCES

The pH meters used by personnel in the field should have temperature and slope adjustments and a repeatability of plus or minus 0.01 standard pH unit. Meters used for pH field measurement should be of rugged construction. A foam-lined carrying case is convenient both for transport and for use as a work table. Battery-operated meters with easily replaceable or rechargeable batteries are required. Also, a spare pH electrode should be available in the field. Both the spare and working electrodes should be immersed in a pH 4 or pH 7 buffer solution when not in use.

The following are recommended for field measurement of pH:

- pH meter with repeatability of ±0.01 standard pH unit
- Buffer solutions of pH 4, 7, and 10
- pH electrode (probe)
- Electrode filling solution
- Electrode holder
- Calibrated thermometer
- Deionized water and wash bottle
- Disposable beakers
- Logbook or field sheets

2.0 PROCEDURES

Meter calibration and field measurement procedures are outlined in the following subsections.

2.1 CALIBRATION

Commercially prepared buffer solutions should be used for calibration. Solutions traceable to the National Institute of Standards and Technology can be purchased inexpensively from any major laboratory supply company. These solutions are certified with an accuracy of plus or minus 0.01 pH unit at a specific temperature, usually 25 EC. Theoretically, buffer solutions are stable indefinitely. However, they are susceptible to contamination, and old, partially full bottles should be replaced.

Because various terms are used to describe the pH meter calibration process, providing a detailed set of instructions for each type of instrument is not practical. Always refer to the manufacturer's instructions when using a particular instrument. The general procedure below can be used to calibrate any pH meter.

1. Calibrate the meter with two buffer solutions to determine if the electrodes are in working order. The slope cannot be adjusted with a one-point calibration.

2. To calibrate the meter, use one buffer solution with a pH greater than and one buffer solution with a pH less than the anticipated pH of the sample. For example, for an anticipated pH of 6, calibrate with pH 4 and pH 7 buffers; for an anticipated pH of 8, calibrate with pH 7 and pH 10 buffers.

3. Ensure that the buffers are at the same temperature as the sample (within 2 EC). Pour aliquots into small containers; never put the electrode into the buffer storage bottles.

4. Adjust the instrument to read the pH 7 buffer accurately. Adjust the temperature compensator according to the manufacturer's instructions. Be sure to rinse the probe with deionized water after taking the calibration measurement.

5. Adjust the instrument to read the pH of the second buffer accurately. If it is not possible to adjust the instrument to read the pH of buffer solutions accurately, check for a defective electrode or contaminated buffer solution. Be sure to rinse the probe with deionized water after taking the calibration measurement.

6. The meter must be calibrated before the start of each work day. Check the calibration periodically and recalibrate if necessary.

2.2 FIELD MEASUREMENT

Do not filter field samples prior to analysis. When measuring the pH of groundwater samples, use a submersible pump or bladder pump to obtain the sample to minimize the release of gas from the sample.

The procedure below should be used for field measurement of pH.

1. Calibrate the instrument and set the temperature compensation in accordance with the manufacturer's instructions.
2. Collect the sample to be measured in a prerinsed jar or beaker or a flow-through cell.
3. Measure the temperature of the sample to the nearest 0.1 EC.
4. Set the temperature compensation on the pH meter to the temperature of the sample, following the manufacturer's instructions.
5. Rinse the probe with deionized water.
6. Immerse the probe in the sample. Record the pH value indicated. If the sample is being pumped through a closed container, wait for the temperature and pH to stabilize. Stop sample flow to eliminate streaming potential. Record the pH value indicated.
7. Record measurements in a logbook, on field sheets, or as specified in the project work plan.

3.0 POTENTIAL PROBLEMS

Temperature, atmospheric contamination, and ionic strength are factors that may affect pH measurements. Each of these three factors is discussed below. Color, turbidity, and colloids will not affect pH measurements.

Temperature: As indicated in Table 1, pH is affected by temperature. To prevent this from causing incorrect pH readings, the temperature compensator on the pH meter must be set to the temperature of the sample. Also, the meter must be calibrated at approximately this same temperature. The temperatures of the buffer and the unknown liquid should both be recorded at the time of measurement. Ideally, their temperatures should be within 2 EC of each other.

Atmospheric Contamination: Atmospheric contamination can be a significant problem when sampling the pH of groundwater. When the sample is exposed to air, dissolved oxygen and carbon dioxide can change a sample's pH. To ensure that this problem does not affect the pH measurement, a groundwater sample should ideally be pumped through a closed container in which pH and temperature probes are immersed. The measurements should not be recorded until both temperature and pH have stabilized. The sampling pump should be stopped before recording the data because a streaming potential will affect the measurement in a flowing sample.

Ionic Strength: Because of the potential for errors due to ionic strength, pH measurement should always be accompanied by a measurement of specific conductance.

In general terms, pH is a measure of hydrogen ion activity. Normally, water samples are assumed to be ideal solutions in which other ions do not affect hydrogen ion activity. However, if the ionic strength is too high, this assumption does not hold true. Some site investigations include sampling of waste ponds or other highly contaminated water that has very high ionic strength. Because buffer solutions used in the field are not made with a similarly high concentration of dissolved ions, pH measurement of highly contaminated water will be inaccurate. Similarly, pH measurement of samples with very low ionic strength will be inaccurate because the low ionic strength of the sample approaches the level of resistance in the glass electrode. To reduce this problem, samples with very low ionic strength should be stirred for a few seconds before taking a reading. Even then, several minutes may be required for the reading to stabilize.

High sodium concentration also may produce errors in pH measurement because of the high ionic strength of these solutions. To measure the pH of such solutions, a special electrode is needed. Such an electrode can be purchased from any of several electrode manufacturers.

TABLE 1

pH OF BUFFER SOLUTIONS AS A FUNCTION OF TEMPERATURE

	Buffer Solution pH		
Standard	4.0	7.0	10.0
Temperature (EC)			
0	4.01	7.13	10.34
5	3.99	7.10	10.26
10	4.00	7.07	10.19
15	3.99	7.05	10.12
20	4.00	7.02	10.06
25	4.00	7.00	10.00
30	4.01	6.99	9.94

SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

FIELD MEASUREMENT OF SPECIFIC CONDUCTANCE

SOP NO. 013

REVISION NO. 2

Last Reviewed: November 1999

Quality Assurance Approved

May 18, 1993

Date

1.0 BACKGROUND

Specific conductance is a widely used parameter for evaluating groundwater and surface water quality. It is a simple indicator of change within a system and provides useful information to laboratory personnel performing other measurements on a water sample.

1.1 PURPOSE

Specific conductance should be determined at the time the sample is collected. This standard operating procedure (SOP) establishes the requirements and procedures for measuring the specific conductance of groundwater or surface water in the field.

1.2 SCOPE

This SOP applies to the use of specific conductance meters in the field.

1.3 DEFINITION

Specific Conductance - Specific conductance is the reciprocal of electrical resistivity. The values of electrical resistivity and specific conductance depend on the number of ions in a solution. Pure water has 100 percent resistivity and no specific conductance. As ions are added to a solution, resistivity drops and specific conductance increases.

1.4 REFERENCES

U.S. Environmental Protection Agency. 1996. "Test Methods for Evaluating Solid Waste, Volume 1C: Laboratory Manual Physical/Chemical Methods, SW-846."

American Society for Testing and Materials Annual Book of Standards. "Standard Test Methods for Electrical Conductivity and Resistivity of Water, Method D-1125."

U.S. Geological Survey. 1977. *National Handbook of Recommended Methods for Water Data Acquisition*.

1.5 REQUIREMENTS AND RESOURCES

Specific conductance meters should measure temperature, have a temperature compensator, and read directly in micromhos per centimeter (Fmhos/cm), corrected to 25 EC. For field measurements, a probe-type unit is preferred over a pipet-type unit. Specific conductance meters should have a foam-lined carrying case and should be battery-operated with easily rechargeable or replaceable batteries. A relative accuracy of plus or minus 3 percent is adequate.

The following are required for calibrating a specific conductance meter and for the field measurement of specific conductance:

- A probe-type specific conductance meter meeting the requirements given above
- Deionized water and wash bottle
- Disposable beakers
- Reagent-grade potassium chloride (KCl) or a commercially-prepared, standard 0.01 molar (M) KCl solution
- Sampling containers
- Sampling equipment
- 1-liter mixing container
- Calibrated thermometer
- Field logbook

2.0 PROCEDURES

Meter calibration and field measurement procedures are outlined in the following subsections.

2.1 METER CALIBRATION

Reagent-grade KCl is the universal standard for calibrating specific conductance equipment. The electrodes are calibrated by reading the specific conductance of standard KCl solutions. A concentration of 0.01 M KCl should be used because its specific conductance is closest to that of most natural samples.

The measuring circuit of the specific conductance meter is calibrated either by the manufacturer or with a calibrating resistor. The manufacturer's instructions for the particular instrument should be followed for calibrating the specific conductance meter.

Individual manufacturers may use slightly different terminology, but the following general procedure will always apply:

1. Prepare a 0.01 M KCl solution by dissolving 0.745 gram of pure, dry KCl in 1 liter of deionized water. The base conductivity for the prepared solution is 1,408.1 Fmhos/cm at 25 EC; if the deionized water has any conductance, it must be corrected to 25 EC and added to the value of the solution. Alternatively, commercially prepared solutions can be used.

2. Measure the temperatures of the 0.01 M KCl solution and the deionized water used for the dilution. They should be at the same temperature (±0.2 EC).

3. Using Table 1, determine the expected specific conductance of the 0.01M KCl solution at the temperature measured.

4. Measure the specific conductance of the 0.01M KCl solution and of the deionized water.

5. Use the following equation to check the cell constant specified by the manufacturer:

$$K = \frac{C_1 \% C_2}{10^6 \text{ x } C_3}$$

where

K = the cell constant
C_1 = the specific conductance of the deionized water
C_2 = the specific conductance of the 0.01 M KCl solution
C_3 = the expected specific conductance from the Table 1

6. A measured cell constant different from that specified by the manufacturer generally indicates that the electrodes are dirty. If this is the case, replace the electrode with a clean

spare or clean and replatinize the electrode in accordance with instructions in the manufacturer's manual or in the American Society for Testing and Materials Method D-1125, Section 8.3.

7. After verifying that the cell constant is acceptable, measure the specific conductance of samples in accordance with to the procedure given in Section 2.2.

2.2 FIELD MEASUREMENT

Do not filter samples before analysis. To minimize gas releases from groundwater samples, a submersible pump or bladder pump should be used to obtain samples.

The following procedure should be used for field measurement of specific conductance:

1. Calibrate the instrument and check the cell constant in accordance with the manufacturer's instructions and the procedure provided in Section 2.1.

2. Collect the sample in a prerinsed jar or beaker or a flow-through cell.

3. Rinse the specific conductance meter probe with deionized water.

4. Using a thermometer or the specific conductance meter itself, measure and record the temperature of the sample in EC.

5. Immerse the specific conductance meter probe in the sample. Record the reading in Fmhos/cm.

6. Record measurements in the field logbook or as specified in the project work plan.

3.0 POTENTIAL PROBLEMS

Principal problem areas for specific conductance measurement are the temperature effect, determination of the cell constant, and allowance for very high ionic strengths. A change in temperature of 10 EC can cause a 20 percent change in the measured specific conductance. Reported data should note whether temperature correction has been applied. Some instruments perform temperature correction automatically, but this, too, should be noted for the reported data. All data should be corrected to 25 EC.

Field personnel must be aware that a significant change in the cell constant indicates that the electrodes require cleaning or replacement. The constant should be checked at each calibration, as described in Section 2.1.

Specific conductance varies directly with ion concentrations up to a specific conductance of about 5,000 Fmhos/cm. Samples collected at most sites seldom have a specific conductance greater than 5,000 Fmhos/cm. Readings above this level should not be considered accurate. However, such readings can still provide useful information about the relative levels of conductance and should be noted.

TABLE 1

RELATIONSHIP OF TEMPERATURE AND SPECIFIC CONDUCTANCE FOR 0.01 M POTASSIUM CHLORIDE SOLUTION

Temperature (EC)	Expected Specific Conductance of 0.01 M KCl Solution (Fmhos/cm)
15	1,141.5
16	1,167.5
17	1,193.6
18	1,219.9
19	1,246.4
20	1,273.0
21	1,299.7
22	1,326.6
23	1,353.6
24	1,380.8
25	1,408.1
26	1,436.5
27	1,463.2
28	1,490.9
29	1,518.7
30	1,546.7

SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

FIELD MEASUREMENT OF WATER TEMPERATURE

SOP NO. 011

REVISION NO. 2

Last Reviewed: November 1999

Quality Assurance Approved

May 11, 1993

Date

1.0 BACKGROUND

Water temperature readings are used in the calculation of various forms of alkalinity, in studies of saturation and stability with respect to calcium carbonate, in the calculation of salinity, and in general laboratory operations. Properly measuring water temperature, therefore, is important to a wide variety of field measurements.

1.1 PURPOSE

This standard operating procedure (SOP) establishes the requirements and procedures for measuring water temperature in the field.

1.2 SCOPE

This SOP applies to measuring the temperature of surface water and groundwater while in the field.

1.3 DEFINITION

National Institute of Standards and Technology Certified Thermometer: A thermometer that carries certification of its temperature-reading precision.

1.4 REFERENCE

U.S. Environmental Protection Agency. 1986. "Resource Conservation and Recovery Act (RCRA) Ground-Water Monitoring Technical Enforcement Guidance Document." September.

1.5 REQUIREMENTS AND RESOURCES

The following equipment may be required for the measurement of water temperature in the field:

- Mercury-filled thermometer with metal case
- Electronic thermistor with accuracy of 0.1 EC and with an extension probe

- National Institute of Standards and Technology certified thermometer
- Sample container
- Decontamination materials
- Field logbook

2.0 PROCEDURES

Under normal conditions, temperature measurements may be made with any reliable, glass, mercury-filled thermometer. At a minimum, the thermometer should have a scale etched on the capillary glass every 0.1 or 0.2 EC. The thermometer should have a minimal thermal capacity to permit rapid equilibration. The thermometer should be calibrated at least annually using a precision thermometer certified by the National Institute of Standards and Technology. Thermometers should be housed in a metal case to prevent breakage.

In some situations, temperature measurements may be made with a digital electronic thermistor with an accuracy of 0.1 EC. The thermistor must be maintained as described in the manufacturer's operation and maintenance manual. In particular, always check the energy level of the thermistor's battery before each use. If the standard probe is not sufficient for taking temperature readings, then an extension probe may be used. Follow the manufacturer's directions to ensure that unbalanced resistance in the extension probe does not distort temperature readings.

Temperature measurements should be taken at the water source. If it is not possible to measure the temperature at the source, collect a sample of the water to be measured and place the sample in an intermediate container. When an intermediate container is used, fill the container with the sample and allow the temperature of the container to equilibrate with that of the sample and record the temperature. Dispose of the sample and collect a new sample. Place the new sample in an intermediate container and repeat the process just described.

Take temperature readings using the thermometer or probe while it is immersed in water long enough to allow complete equilibration. Depending on the type of thermometer, immerse it to mark or immerse totally. Report results to the nearest 0.1 or 1.0 EC, depending on the project specifications.

Record measurements in the field logbook. After taking the measurements, decontaminate the thermometer or probe.

SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

GROUNDWATER SAMPLE COLLECTION USING LOW-FLOW SAMPLING METHODOLOGY

SOP NO. 015

REVISION NO. 1

Last Reviewed: April 2010

Quality Assurance Approved

July 28, 2009

Date

1.0 BACKGROUND

Groundwater sample collection is an integral part of site characterization at many contaminant release investigation sites. Often, a requirement of groundwater contaminant investigation is to evaluate contaminant concentrations in the aquifer. Since data quality objectives of most investigations require a laboratory setting for chemical analysis, samples must be collected from the aquifer and submitted to a laboratory for analysis. Therefore, sample collection and handling must be conducted in a manner that minimizes alteration of chemical characteristics of the groundwater.

In the past, most sample collection techniques followed federal and state guidance that included removal of water in the casing of a monitoring well (purging), followed by sample collection. The water in the casing was removed so that groundwater from the formation could flow into the casing and be available for sample collection. Sample collection was commonly completed with a bailer, bladder pump, controlled flow impeller pump, or peristaltic pump. Samples were preserved during collection. Often, samples to be analyzed for metals were filtered through a 0.45-micron filter prior to preservation and placement into the sample container.

Research conducted by several investigators has demonstrated that movement of contaminants while sorbed onto colloid particles constitutes a significant component of contaminant transport. Colloid mobility in an aquifer is a complex, aquifer-specific transport issue, and its description is beyond the scope of this standard operating procedure (SOP). However, concentrations of suspended colloids have been measured during steady-state conditions and during purging activities. Investigation results indicate standard purging procedures may cause a significant increase in suspended colloids, which in turn may bias analytical results.

Low-flow sample collection, sometimes referred to as micropurge, low-stress, or minimal drawdown groundwater sample collection, is a groundwater sampling method that minimizes increased colloid mobilization by removing water from a well at the screened interval at a rate that preserves or minimally disrupts steady-state flow conditions in the aquifer. During low-flow sampling, groundwater is discharged from the aquifer at a rate that the aquifer will yield without creating a cone of depression around the sampled well (i.e., a rate of discharge less than or equal to the rate of recharge). Research indicates that colloid mobilization will not increase above steady-state conditions during low-flow

discharge. Therefore, the sample collected by this method is more likely to represent steady-state groundwater chemistry.

1.1 PURPOSE

The purpose of this SOP is to describe the procedures to be used to collect a groundwater sample from a well using low-flow sampling methodology. The following sections describe the equipment to be used and the methods to be followed to promote uniform sample collection techniques. Sampling is to be conducted by field personnel who are experienced in sample collection and handling for environmental investigations.

1.2 SCOPE

This SOP applies to groundwater sampling using low-flow sampling methodology. It is intended to be used as an alternate SOP to SOP No. 010 (Groundwater Sampling), which provides guidance for the general aspects of groundwater sampling. This SOP provides procedures to be used for various methods of low-flow sample collection. The specific type of sampling pump to be used should be specified in the project-specific work plan or field sampling plan.

1.3 DEFINITIONS

Colloid: Suspended particles that range in diameter from 5 nanometers to 0.2 micrometers.

Dissolved oxygen: The ratio of the concentration or mass of oxygen in water relative to the partial pressure of gaseous oxygen above the liquid, which is a function of temperature, pressure, and the concentration of other solutes.

Flow-through cell: A device connected to the discharge line of a groundwater purge pump that allows regular or continuous measurement of selected parameters of the water and minimizes contact between the water and air.

pH: The negative base-10 log of the hydrogen-ion activity in moles per liter.

Reduction and oxidation potential: A numerical index of the intensity of oxidizing or reducing conditions within a system, with the hydrogen-electrode potential serving as a reference point of zero volts.

Specific conductance: The reciprocal of the resistance in ohms measured between opposite faces of a centimeter cube of aqueous solution at a specified temperature.

Turbidity: A measurement of the suspended particles in a liquid that have the ability to reflect or refract part of the visible portion of the light spectrum.

1.4 REFERENCES

U.S. Environmental Protection Agency (EPA), Office of Research and Development. April 1996. *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures*. Publication: EPA/540/S-95/504. http://www.epa.gov/ahaazvuc/download/issue/lwflw2a.pdf

EPA, Office of Solid Waste and Emergency Response. May 2002. *Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers*. Publication: EPA542-S-02-001. http://www.epa.gov/tio/tsp/download/gw_sampling_guide.pdf

1.5 REQUIREMENTS AND RESOURCES

The following equipment is required to complete low-flow groundwater sample collection:

- Water level indicator
- Adjustable flow rate pump (bladder, piston, peristaltic, or impeller)
- Power source for the pump (such as a battery or generator, or compressed air source)
- Discharge flow controller
- Flow-through cell
- pH probe
- Dissolved oxygen (DO) probe
- Turbidity meter
- Oxidation and reduction (Redox or Eh) probe

- Specific conductance (SC) probe (optional)
- Temperature probe (optional)
- Meter to display data for the probes
- Calibration solutions for pH, SC, turbidity, and DO probes, as necessary
- Container of known volume for flow measurement or calibrated flow meter
- Data recording and management system

2.0 PROCEDURE

The following procedures and criteria are based on EPA guidance titled *Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* (1996) and *Ground-Water Sampling Guidelines for Superfund and RCRA Project Managers* (2002). These references may be consulted for a more detailed description of low-flow sampling theory.

Low-flow groundwater sampling is most commonly accomplished with low discharge-rate pumps, such as bladder pumps, piston pumps, controlled velocity impeller pumps, or peristaltic pumps. Bailers and high-capacity submersible pumps are not considered acceptable low-flow sample collection devices. The purged water is monitored (in a flow-through cell or other constituent monitoring device) for chemical and optical parameters that indicate steady-state flow conditions between the sample extraction point and the aquifer. Samples are collected when steady-state conditions are indicated.

Groundwater discharge equipment may be permanently installed in the monitoring well as a dedicated system, or it can be installed in each well as needed. Most investigators agree that dedicated systems will provide the best opportunity for collecting samples most representative of steady-state aquifer conditions, but the scope and budget of a particular investigation will dictate equipment selection.

2.1 EQUIPMENT CALIBRATION

Prior to sample collection, the monitoring equipment used to measure pH, Eh, DO, turbidity, and SC should be calibrated or checked according to manufacturers' directions (see SOP No. 061 for more details regarding measurement of groundwater indicator parameters). Typically, calibration activities are completed at the field office at the beginning of sampling activities each day. The pH meter calibration

should bracket the pH range of the wells to be sampled (acidic to neutral pH range [4.00 to 7.00] or neutral to basic pH range [7.00 to 10.00]). The DO meter should be calibrated to one point (air-saturated water) or two points (air-saturated water and water devoid of all oxygen).

The SC meter and turbidity meter cannot be calibrated in the field; they are checked against a known standard. The offset of the measured value of the calibration standard can be used as a correction value. Similarly, the Eh probe cannot be calibrated in the field, but is checked against a known standard, such as Zobell solution. The instrument should display a millivolt (mv) value that falls within the range set by the manufacturer. Because Eh is temperature dependent, the measured value should be corrected for site-specific variance from standard temperature (25 °C). The Eh probe should be replaced if the reading is not within the manufacturer's specified range. All calibration data should be recorded on the Low-Flow Groundwater Sampling Data Sheet (example included as Figure 1), on a personal digital assistant (PDA), or in a logbook.

2.2 WELL PURGING

The well to be sampled should be opened, and groundwater in the well allowed to equilibrate to atmospheric pressure. Equilibration should be determined by measuring depth to water below the marked reference on the wellhead (typically the top of the well casing) over two or more 5-minute intervals. Equilibrium conditions exist when the measured depth to water varies by less than 0.01 foot over two consecutive readings. Total depth of well measurement should be made following sample collection, unless the datum is required to place nondedicated sample collection equipment. Depth to water and total well depth measurements should be made in accordance with procedures outlined in SOP No. 014 (Static Water Level, Total Well Depth, and Immiscible Layer Measurement).

If the well does not have a dedicated sample collection device, a new or previously decontaminated portable sample collection device should be placed within the well. If nondedicated sampling equipment is used, the least contaminated wells should be purged and sampled first and most contaminated wells should be purged and sampled last (if past sampling data are available to make this determination). The intake of the device should be positioned at the midpoint of the well screen interval. The device should be installed slowly to minimize turbulence within the water in the casing and minimize mixing of stagnant water above the screened interval with water in the screened interval. Following installation, the flow controller should be connected to the sample collection device, and the flow-through cell connected

to the outlet of the sample collection device. The calibrated groundwater chemistry monitoring probes should be installed in the flow-through cell. If a flow meter is used, it should be installed ahead of the flow-through cell.

If the well has a dedicated sample collection device, the controller for the sample collection device should be connected to the sample collection device. The flow meter and flow-through cell should be connected in line to the discharge tube, and the probes installed in the flow-through cell. Hook-up to the appropriate power source should be the last step prior to activating the pump to ensure all connections are completed prior to starting the pump.

The controller should be activated and groundwater extracted (purged) from the well. The purge rate should be monitored, and should not exceed the capacity of the well. The well capacity is defined as the maximum discharge rate that can be obtained with less than 0.1 meter (0.33 foot) drawdown. Typically, the discharge rate will be less than 0.5 liters per minute (L/min) (0.13 gallons per minute). The maximum purge rate should not exceed 1 L/min (0.25 gallons per minute), and should be adjusted to achieve minimal drawdown.

Water levels, effluent chemistry, and effluent flow rate should be continuously monitored while purging the well. Purging should continue until the measured chemical and optical parameters are stable. Stable parameters are defined as monitored chemistry values that do not fluctuate by more than the following ranges over three successive readings at 3- to 5-minute intervals:

- pH ±0.1 unit
- Temperature (while listed in EPA guidance, this parameter is described as the least important and not required to be stable if all other parameters have been met)
- SC ±3 percent
- Turbidity ±10 percent, when greater than 10 nephelometric turbidity units (NTU)
- DO ±10 percent or 0.3 milligrams per liter (mg/L)
- Eh ±10 mv

Purging will continue until these stabilization criteria have been met, excluding temperature, or three well casing volumes have been purged. If three casing volumes of water have been purged and the

stabilization criteria have not been met, a comment should be made on the data sheet that sample collection began after three well casing volumes were purged.

The volume of water in the well is based on the following formula:

$$V = \pi r^2 h \times 7.48$$

where

V = static volume of water in the well (gallons)

r = inside radius of the well (feet)

h = length of water in the well (total well depth minus depth to water) (feet)

7.48 = conversion factor (cubic feet to gallons)

Common well diameter sizes and corresponding volumes are listed below.

- 1-inch well = h x 0.041 gal/ft
- 2-inch well = h x 0.163 gal/ft
- 3-inch well = h x 0.367 gal/ft
- 4-inch well = h x 0.652 gal/ft

For wells with water table screen intervals: If a stabilized drawdown in the well cannot be maintained within 0.33 feet or the water level is approaching the bottom of the screened interval, reduce the flow rate, or turn the pump off for 15 minutes, and allow for recovery. The well should not be pumped dry. Resume pumping at a lower flow rate; if the water draws down to the bottom of the screened interval again, turn pump off and allow for recovery. If sufficient yield cannot be obtained, consider an alternative sampling method.

For wells with submerged or targeted screen intervals: If a stabilized drawdown in the well cannot be maintained within 0.33 feet or the water level is approaching the top of the screened interval, reduce the flow rate, or turn the pump off for 15 minutes, and allow for recovery. The well should not be pumped dry. Resume pumping at a lower flow rate; if the water draws down to the top of the screened interval again, turn pump off and allow for recovery. If sufficient yield cannot be obtained, consider either further drawdown or an alternative sampling method.

If two tubing volumes (including the volume of water in the pump and flow cell) have been removed during purging, then sampling can proceed next time the pump is turned on. This information should be noted in the field notebook or groundwater sampling log. Slow-recovering wells should be identified and purged at the beginning of the workday to maximize field work efficiency. If possible, samples should be collected from these wells within the same workday and no later than 24 hours after the end of purging.

The final pH, SC, Eh, turbidity, and DO values should be recorded. All data should be recorded on the Low-Flow Groundwater Sampling Data Sheet (Figure 1), a PDA, or in a logbook.

2.3 SAMPLE COLLECTION

Following purging, the flow-through cell shall be disconnected, and groundwater samples should be collected directly from the discharge line. Discharge rates should be adjusted so that groundwater is dispensed into the sample container with minimal aeration of the sample. Samples collected for volatile organic compound analysis should be dispensed into the sample container at a flow rate equal to or less than 100 milliliters per minute. Samples should be preserved and handled as described in the investigation field sampling plan or quality assurance project plan. Depending on the project-specific types of analyses required, the preferred order of sample collection is as follows:

1. Volatile organic compounds (VOC)
2. Purgeable organic halogens (POX)
3. Total organic halogens (TOX)
4. Cyanide
5. Extractable organics
6. Purgeable organic carbon (POC)
7. Total metals
8. Dissolved metals
9. Total organic carbon (TOC)
10. Phenols
11. Sulfate and chloride

12. Nitrate and ammonia

13. Radionuclides

See SOP No. 010 (Groundwater Sampling) for more information on groundwater sample collection.

FIGURE 1 - LOW-FLOW GROUNDWATER SAMPLING DATA SHEET

Date/Time of Sample Collection: _____/_____Project Site/Subsite: _____
Sample ID: _____
Field ID: _____ Point Name: _____
Depth to Well Bottom: _____ ft. below top of casing (PVC cap)
Depth to Water Level: _____ ft. below PVC cap
Depth to Water Level: _____ ft. below PVC cap prior to sampling
Method of Purging: Bladder Pump ____ Submersible Pump ____
Peristaltic Pump ____
Minimum Purge Volume: 2-inch well ____Liters / 4-inch well ____Liters
Control Box Settings: Box # _____ Refill _____ Discharge _____
Throttle _____ psi
Total Purged: _____ Liters (Purge Rate goal = 0.5 Liters/Min.)
Actual Purge Rate: _____ Liters/Min.

Purge Calculations

PHYSIO-CHEMICAL PARAMETERS DURING PURGING

Measure in order listed**	Initial Reading									Stabiliz-ation Criteria	Final
Time											
pH										+/-0.1	
Temperature (°C)										NC*	
Specific Conductance (µmhos/cm)										+/-3%	
Turbidity (NTU)										+/-10%	
Dissolved Oxygen (mg/L)										+/-10% or +/-0.3	
ORP (mV)										+/-10	
Each Volume Purged (L)											
Total Liters Purged											

*NC = No Criteria. **Stabilization criteria listed should be used unless project-specific plans specify alternate stabilization criteria.

Duplicate Sample Collected? No Yes (Sample ID of Duplicate) _____
MS/MSD Sample Collected? No Yes _____
Sample Remarks (odors, colors, sediment): _____
Comments: _____
Sample(s) Collected By: _____
Pump System Purge Volume Calc: Length of tubing X 9.6 (ml/ft) + 130 (bladder volume) = Total required purge (liters) before collection of parameters

SOP APPROVAL FORM

TETRA TECH EM INC.

ENVIRONMENTAL STANDARD OPERATING PROCEDURE

SOIL SAMPLING

SOP NO. 005

REVISION NO. 2

Last Reviewed: June 2009

Quality Assurance Approved

6-19-09

Date

1.0 BACKGROUND

Soil sampling is conducted for three main reasons: for laboratory chemical analysis, laboratory physical analysis, or visual classification and field screening. These three sampling objectives can be achieved separately or in combination with each other. Sampling locations are typically chosen to provide chemical, physical, or visual information in both the horizontal and vertical directions. A sampling and analysis plan is used to outline sampling methods and provide preliminary rationale for sampling locations. Sampling locations may be adjusted in the field based on the screening methods being used and the physical features of the area.

1.1 PURPOSE

Soil sampling is conducted to determine the chemical, physical, and visual characteristics of surface and subsurface soils.

1.2 SCOPE

This standard operating procedure (SOP) describes procedures for soil sampling in different areas using various implements. It includes procedures for test pit, surface soil, and subsurface soil sampling, and describes ten soil sampling devices.

1.3 DEFINITIONS

Hand auger: Instrument attached to the bottom of a length of pipe that has a crossarm or "T" handle at the top. The auger can be closed-spiral or open-spiral.

Bucket auger: A type of auger that consists of a cylindrical bucket 10 to 72 inches in diameter with teeth arranged at the bottom.

Core sampler: Thin-wall cylindrical metal tube with diameter of 0.5 to 3 inches, a tapered nosepiece, a "T" handle to facilitate sampler deployment and retrieval, and a check valve (flutter valve) in the headpiece.

EnCore™ sampler: A disposable volumetric sampling device. It comes in sample sizes of 5 and 25 grams. It is a hermetically sealed, single-use soil sampler made from a high-tech, inert polymer. EnCore™ samplers are used to collect soil samples with zero headspace, as required for volatile organic compound analysis. Each sample is collected using a reuseable "T" handle.

Spatulas or Spoons: Stainless steel or disposable instruments for collecting loose unconsolidated material.

Trier: Tube cut in half lengthwise with a sharpened tip that allows for collection of sticky solids or loosening of cohesive soils.

Trowel: Metal or disposable tool with a scooped blade 4 to 8 inches long and 2 to 3 inches wide with a handle.

Split-Spoon (or Split-Barrel) Sampler: Thick-walled steel tube that is split lengthwise. A cutting shoe is attached to the lower end; the upper end contains a check valve and is connected to drill rods.

Thin-Wall Tube Sampler: Steel tube (1 to 3 millimeters thick) with a tapered bottom edge for cutting. The upper end is fastened to a check valve that is attached to drill rods.

Volatile Organics Analysis (VOA) Plunger: Disposable, plastic, single-use soil sample collection device for volatile organic compound sample collection.

1.4 REFERENCES

U.S. Environmental Protection Agency. (EPA) 1984. "Soil Sampling Quality Assurance Users Guide." EPA 600/4-84-043.

EPA. 1980. "Samplers and Sampling Procedures for Hazardous Waste Streams." EPA 600/2-80-018. January.

EPA 1983. "Preparation of Soil Sampling Protocol: Techniques and Strategies." EPA 600/4-83-020.

EPA. 1987. "A Compendium of Superfund Field Operations Methods." OSWER Directive 9355.0-14 (EPA/540/P-87/001).

EPA. 1991. "Handbook of Suggested Practices for the Design and Installation of Ground-Water Monitoring Wells." March. EPA/600/4-89/034.

EPA. 1994. "Soil Sampling." Environmental Response Team SOP #2012 (Rev. #0.0, 11/16/94). http://www.ert.org/mainContent.asp?section=Products&subsection=List

EPA. 1996. SW-846, Method 5035, Closed-System Purge-and-Trap and Extraction for Volatile Organics in Soil and Waste Samples. December. http://www.epa.gov/epawaste/hazard/testmethods/sw846/pdfs/5035.pdf

1.5 REQUIREMENTS AND RESOURCES

Soil sampling requires the use of one or more of the following types of equipment:

- Spoons and spatulas
- Trowel
- Shovel or spade
- Trier
- Core sampler
- EnCore™ sampler
- VOA Plunger
- Hand auger
- Bucket auger
- Split-spoon
- Thin-wall tube

In addition, the following equipment is also needed for various methods:

- Sample containers, labels, and chain-of-custody forms
- Logbook
- Tape for measuring recovery
- Soil classification information
- Wax or caps for sealing ends of thin-wall tube
- "T" Handles
- Plastic sheeting
- Decontamination equipment
- Drilling equipment
- Backhoe
- Health and safety equipment

2.0 SOIL SAMPLING PROCEDURES

This SOP presents procedures for conducting test pit, surface soil, and subsurface soil sampling. The site sampling plan will specify which of the following procedures will be used.

Soil samples for chemical analysis should be collected in the following order: (1) volatile organics, (2) semivolatile organics, and (3) metals. Once the chemical samples have been containerized, samples for physical analyses can be containerized. Typical physical analyses conducted include (1) grain size distribution, (2) moisture content, (3) saturated permeability, (4) unsaturated permeability, and (5) Atterberg limits. Additionally, visual descriptions of samples, using the Unified Soil Classification System (USCS), should be recorded. Field tests such as head space analyses can also be conducted.

Soil samples for chemical analyses can be collected either as grab samples or composite samples. A grab sample is collected from a discrete location or depth. A composite sample consists of soil combined from more than one discrete location. Typically, composite samples consist of soil obtained from several locations and homogenized in a stainless steel or Teflon® pan, tray, or baggie. Refer to the site-specific Quality Assurance Project Plan (QAPP) for methodology for composite sample collection. Samples for volatile organics analysis should not be composited.

All soil samples collected should be packaged and shipped to the laboratories in accordance with SOP 019. All nondedicated or nondisposable equipment used for soil sampling should be decontaminated between sampling locations in accordance with SOP 002.

2.1 SOIL SAMPLE COLLECTION PROCEDURES

Soil samples can be collected as discrete samples for volatile organic compound (VOC) analysis using specialized equipment for preservation in the laboratory or in the field. Soil samples collected for non-VOC analysis can be collected as either grab or composite samples using standard equipment.

2.1.1 Procedure for Preserving and Collecting Soil Samples for VOC analysis

Samples collected for VOC analysis using traditional methods, such as collection in a jar with no preservation, are shown to yield nonrepresentative samples due to loss of VOCs. To prevent such losses,

preservation with methanol or sodium bisulfite may be used to minimize volatilization and biodegradation. This preservation may be performed in the laboratory or in the field, depending on the sample collection methodology used. The specific sampling methodology will be specified in the project-specific QAPP or work plan.

Soil samples to be preserved in the laboratory are collected using SW-846 Method 5035. For samples preserved in the field, laboratories may perform low-level analysis (sodium bisulfate preservation) or high- to medium-level analyses (methanol preservation), depending on the project-specific QAPP.

The following procedures outline the necessary steps for collecting soil samples to be preserved at the laboratory, and for collecting soil samples to be preserved in the field with methanol or sodium bisulfate.

2.1.1.1 Soil Samples to be Preserved at the Laboratory

Soil samples collected for VOC analysis that are to be preserved at the laboratory shall be obtained using a hand-operated, hermetically sealed sample vial such as an EnCore™ sampler. Each sample shall be obtained using a reusable sampling handle ("T" handle) that can be provided with the EnCore™ sampler when requested and purchased. Collect the soil sample in the following manner for each EnCore™ sampler.

The EnCore™ sampler is loaded into the "T" handle with the plunger fully depressed. Press the "T" handle into the soil to be sampled. The plunger will be forced upward as the cavity fills with soil. When the sampler is full, using the "T" handle, rotate the plunger and lock it into place. If the plunger does not lock, then it is not filled with soil. Soft soil may require several plunges or forcing soil against a hard surface such as a decontaminated sample trowel to ensure headspace has been eliminated. Remove soil from the outside of the sampler so a tight seal can be made between the sample cap and the O-ring. With soil slightly piled above the rim of the sampler, force the cap on until the catches hook the side of the sampler. Remove any surface soil from outside of the sampler and place in the foil bag provided with the sampler. Label the bag with sample location information. Typically, collect three EnCore™ samplers per sample location. Decontaminate the "T" handle between sample locations.

Using the EnCore™ sampler eliminates the need for field preservation and the shipping restrictions associated with preservatives. A complete set of instructions is included with each EnCore™ sampler.

After the EnCore™ samples are collected, they should be placed on ice immediately and delivered to the laboratory within 48 hours. The samples must be preserved by the laboratory within 48 hours of collection.

2.1.1.2 Soil Samples to be Preserved in the Field

Soil samples preserved in the field may be prepared for analysis using both the low-level (sodium bisulfate preservation) and high- to medium-level (methanol preservation) methods. If samples effervesce when placed in preservative, it is necessary to collect a sample unpreserved, in deionized water. In addition, an unpreserved sample for determination of moisture content must also be collected when collecting soil samples to be preserved in the field.

Methanol Preservation (High to Medium Level). Bottles may be pre-spiked with methanol in the laboratory or prepared in the field. Soil samples to be preserved in the field with methanol shall utilize 40- to 60-milliliter (mL) glass vials with septum-lined lids. Each sample bottle shall be filled with 25 mL of demonstrated analyte-free purge-and-trap grade 3 methanol. The preferred method for adding methanol to the sample bottle is by removing the lid and using a pipette or scaled syringe to add the methanol directly to the bottle.

Soil shall be collected with the use of a decontaminated (or disposable), small-diameter coring device such as a disposable VOA plunger. The outside diameter of the coring device must be smaller than the inside of the sample bottle neck. To collect the sample, pull the plunger back to the required location, insert it into the soil to be sampled, push the coring device into the soil, extrude the soil sample into the methanol-preserved sample bottle, and cap the bottle tightly. Swirl the sample (do not shake) in the methanol to break up the soil such that all of the soil is covered with methanol. Place the sample on ice immediately.

Sodium Bisulfate Preservation (Low Level). Bottles may be prepared in the laboratory or in the field with sodium bisulfate solution. Samples to be field-preserved using sodium bisulfate are collected using the same procedures described for methanol preservation.

2.1.2 Procedure for Collecting Soil Samples for Non-VOC Analyses

Samples collected for non-VOC analyses may be collected as either grab or composite samples as follows. Using a sampling device, transfer a portion of soil to be sampled to a stainless steel bowl, disposable inert plastic tray, or baggie. Remove roots, vegetation, sticks, and stones larger than the size of pea gravel. Thoroughly mix the soil to obtain as uniform a texture and color as practicable. Transfer the mixed soil to the appropriate sample containers and close the containers. Place the sample containers immediately on ice.

2.2 TEST PIT AND TRENCH SOIL SAMPLING

Test pit and trench soil sampling is conducted when a complete soil profile is required or as a means of locating visually detectable contamination. This type of sampling provides a detailed description of the soil profile and allows for multiple samples to be collected from specific soil horizons. Prior to conducting any test pit or trench excavation with a backhoe, the sampling team should ensure that the sampling area is clear of utility lines, subsurface pipes, and poles.

A test pit or trench is excavated by incrementally removing soil material with a backhoe bucket. The excavated soil is placed on plastic sheeting well away from the edge of the test pit. A test pit should not be excavated to depths greater than 4 feet unless its walls are properly sloped or stabilized. No personnel shall enter any test pit or trench excavation over 4 feet deep; such action would constitute confined space entry and must conform with Occupational Safety and Health Administration (OSHA) regulations at Title 29 of the *Code of Federal Regulations* § 1910.

Personnel entering the test pit may be exposed to toxic or explosive gases and oxygen deficient environments. Air monitoring is required before entering the test pit, and the use of appropriate respiratory gear and protective clothing is mandatory. At least two persons must be present at the test pit before sampling personnel may enter the excavation and begin soil sampling. Refer to project-specific Health and Safety Plans for required safety procedures for excavations.

Soil samples can also be obtained directly from the backhoe bucket or from the excavated material after it has been removed and deposited on plastic sheeting. The sampling personnel shall direct the backhoe excavator to obtain material from the selected depth and location within the excavation. The backhoe

operator shall set the backhoe bucket on the ground in a designated location, at a sufficient distance from the excavation to allow the sampler safe access to the bucket. The backhoe operator shall disengage the controls and signal to the sampler that it is safe to approach the bucket. The soil sample shall then be collected from the center of the backhoe bucket to reduce the potential for cross-contamination of the sample.

Test pits are not practical for sampling at depths greater than 15 feet. If soil samples are required from depths greater than 15 feet, samples should be obtained using test borings instead of test pits. Test pits are also usually limited to a few feet below the water table. In some cases, a pumping system may be required to control the water level within the pits.

Access to open test pits should be restricted by the use of flagging, tape, or fencing. If a fence is used, it should be erected at least 6 feet from the perimeter of the test pit. The test pit should be backfilled as soon as possible after sampling is completed.

Various equipment may be used to collect soil samples from the walls or bottom of a test pit. A hand auger, bucket auger, or core sampler can be used to obtain samples from various depths. A trier, trowel, EnCore™ sampler, VOA plunger, or spoon can be used to obtain samples from the walls or pit bottom surface.

2.3 SURFACE SOIL SAMPLING

The surface soil sampling equipment presented in this SOP is best suited for sampling to depths of 0 to 6 feet below ground surface (bgs). The sample depth, sample analyses, soil type, and soil moisture will also dictate the most suitable sampling equipment. Prior to sample collection, the sampling locations should be cleared of any surface debris such as twigs, rocks, and litter. The following table presents various surface soil sampling equipment and their effective depth ranges, operating means (manual or power), and sample types collected (disturbed or undisturbed).

Sampling Equipment	Effective Depth Range (feet bgs)	Operating Means	Sample Type
Hand Auger	0 to 6	Manual	Disturbed
Bucket Auger	0 to 4	Power	Disturbed
Core Sampler	0 to 4	Manual or Power	Undisturbed
EnCore™ Sampler	Not Applicable	Manual	Disturbed
Spoon/Spatula	0 to 0.5	Manual	Disturbed
Trowel	0 to 1	Manual	Disturbed
VOA Plunger	Not Applicable	Manual	Disturbed

The procedures for using these various types of sampling equipment are discussed below.

2.3.1 Hand Auger

A hand auger equipped with extensions and a "T" handle is used to obtain samples from depths of up to 6 feet bgs. If necessary, a shovel may be used to excavate the topsoil to reach the desired subsoil level. If topsoil is removed, its thickness should be recorded. Samples obtained using a hand auger are disturbed in their collection; determining the exact depth at which samples are obtained is difficult.

The hand auger is screwed into the soil at an angle of 45 to 90 degrees from horizontal. When the entire auger blade has penetrated soil, the auger is removed from the soil by lifting it straight up without turning it, if possible. If the desired sampling depth has not been reached, the soil is removed from the auger and deposited onto plastic sheeting. This procedure is repeated until the desired depth is reached and the soil sample is obtained. The auger is then removed from the boring and the soil sample is collected directly from the auger into an appropriate sample container.

2.3.2 Bucket Auger

A bucket auger, equipped similarly as the hand auger, is used to obtain disturbed samples from depths of up to 4 feet bgs. A bucket auger should be used when sampling stony or dense soil that prohibits the use of a hand-operated core or screw auger. A bucket auger with closed blades is used in soil that cannot generally be penetrated or retrieved by a core sampler.

The bucket auger is rotated while downward pressure is exerted until the bucket is full. The bucket is then removed from the boring, the collected soil is placed on plastic sheeting, and this procedure is repeated until the appropriate depth is reached and a sample is obtained. The bucket is then removed from the boring and the soil sample is transferred from the bucket to an appropriate sample container.

2.3.3 Core Sampler

A hand-operated core sampler (Figure 1), similarly equipped as the hand auger, is used to obtain samples from depths of up to 4 feet bgs in uncompacted soil. The core sampler is capable of retrieving undisturbed soil samples and is appropriate when low concentrations of metals or organics are of concern. The core sampler should be constructed of stainless steel. A polypropylene core sampler is generally not suitable for sampling dense soils or sampling at greater depths.

The core sampler is pressed into the soil at an angle of 45 to 90 degrees from horizontal and is rotated when the desired depth is reached. The core is then removed, and the sample is placed into an appropriate sample container.

2.3.4 Shovel

A shovel may be used to obtain large quantities of soil that are not readily obtained with a trowel. A shovel is used when soil samples from depths of up to 6 feet bgs are to be collected by hand excavation; a tiling spade (sharpshooter) is recommended for excavation and sampling. A standard steel shovel may be used for excavation; either a stainless steel or polypropylene shovel may be used for sampling. Soil excavated from above the desired sampling depth should be stockpiled on plastic sheeting. Soil samples should be collected from the shovel and placed into the sample container using a stainless-steel scoop, plastic spoon, or other appropriate tool.

2.3.5 Trier

A trier (Figure 2) is used to sample soil from depths up to 1 foot bgs. A trier should be made of stainless steel or polypropylene. A chrome-plated steel trier may be suitable when samples are to be analyzed for organics and heavy metal content is not a concern.

Samples are obtained by inserting the trier into soil at an angle of up to 45 degrees from horizontal. The trier is rotated to cut a core and is then pulled from the soil being sampled. The sample is then transferred to an appropriate sample container.

2.3.6 Trowel

A trowel is used to obtain surface soil samples that do not require excavation beyond a depth of 1 foot. A trowel may also be used to collect soil subsamples from profiles exposed in test pits. Use of a trowel is practical when sample volumes of approximately 1 pint (0.5 liter) or less are to be obtained. Excess soil should be placed on plastic sheeting until sampling is completed. A trowel should be made of stainless steel or galvanized steel. It can be purchased from a hardware or garden store. Soil samples to be analyzed for organics should be collected using a stainless steel trowel. Samples may be placed directly from the trowel into sample containers.

2.4 SUBSURFACE SOIL SAMPLING

Subsurface soil sampling is accomplished in conjunction with borehole drilling, for soil sampling from depths greater than approximately 6 feet bgs. Subsurface soil sampling is frequently coupled with exploratory boreholes or monitoring well installation.

Subsurface soil sampling may be conducted using a drilling rig, power auger, or direct-push technology (DPT). Selection of sampling equipment depends upon geologic conditions and the scope of the sampling program. Two types of samplers used with machine-driven augers—the split-spoon sampler and the thin-wall tube sampler—are discussed below. All sampling tools should be cleaned before and after each use in accordance with SOP No. 002 (General Equipment Decontamination). Both the split-spoon sampler and the thin-wall tube sampler can be used to collect undisturbed samples from

unconsolidated soils. The procedures for using the split-spoon and thin-wall tube samplers are presented below.

2.4.1 Split-Spoon Sampler

Split-spoon samplers are available in a variety of types and sizes. Site conditions and project needs, such as large sample volume for multiple analyses, determine the specific type of split-spoon sampler to be used. Figure 3 shows a generic split-spoon sampler.

The split-spoon sampler is advanced into the undisturbed soil beneath the bottom of the casing or borehole using a weighted hammer and a drill rod. The relationship between hammer weight, hammer drop, and number of blows required to advance the split-spoon sampler in 6-inch increments indicates the density or consistency of the subsurface soil. After the split-spoon sampler has been driven to its intended depth, it should be removed carefully to avoid loss of sample material. In noncohesive or saturated soil, a catcher or basket should be used to help retain the sample.

After the split-spoon sampler is removed from the casing, it is detached from the drill rod and opened. If VOA samples are to be collected, EnCore™ samplers or VOA plungers should be filled with soil taken directly from the split-spoon sampler. Samples for other specific chemical analyses should be taken as soon as the VOA sample has been collected. The remainder of the recovered soil can then be used for visual classification of the sample and containerized for physical analysis. The entire sample (except for the top several inches of possibly disturbed material) is retained for analysis or disposal.

2.4.2 Thin-Wall Tube Sampler

A thin-wall tube sampler, sometimes called the Shelby tube (Figure 4), is used to collect soil samples for geophysical analysis. Tube samplers are best suited for collecting cohesive soils such as clays and silts. The tube sampler may be pressed or driven into soil inside a hollow-stem auger flight, wash bore casing, or uncased borehole. The tube sampler is pressed into the soil, without rotation, to the desired depth or until refusal. If the tube cannot be advanced by pushing, it may be necessary to drive it into the soil without rotation using a hammer and drill rod. The tube sampler is then rotated to collect the sample from the soil and removed from the borehole.

After removal of the tube sampler from the drilling equipment, the tube sampler should be inspected for adequate sample recovery. The sampling procedure should be repeated until an adequate soil core is obtained (if sample material can be retained by the tube sampler). The soil core obtained should be documented in the logbook. Any disturbed soil is removed from each end of the tube sampler. If chemical analysis is required, VOA samples must be collected immediately after the tube sampler is withdrawn. EnCore™ samplers or VOA plungers should be filled with soil taken directly from the tube sampler. Before use, and during storage and transport, the tube sampler should be capped with a nonreactive material. For physical sampling parameters, the tube is sealed using plastic caps. The top and bottom of the tube sampler should be labeled and the tube sampler should be stored accordingly.

2.4.3 Direct-Push Technology Sampler

Geoprobe systems utilize DPT. In many cases, DPT is less expensive and faster than collecting soil samples with a standard drilling rig. In addition, the use of DPT causes minimal disturbance to the ground surface and generates little to no soil cuttings. DPT uses acetate or clear polyvinyl chloride (PVC) sleeves for collecting soil samples. Use of the Geoprobe system is described in SOP No. 054.

Upon retrieval of the sampling rod from the ground, the sample sleeve is extruded from the sampling rod. The sleeve is sliced lengthwise twice, to open the sleeve. Soil samples can be collected directly from the opened sleeve. If VOA samples are to be collected, EnCore™ samplers or VOA plungers should be filled with soil taken directly from the opened DPT sampler. Samples for other specific chemical analyses should be taken after the VOA sample has been collected. The remainder of the recovered soil can then be used for visual classification of the sample and containerized for physical analysis. The entire sample is retained for analysis or disposal.

FIGURE 1

HAND-OPERATED CORE SAMPLER

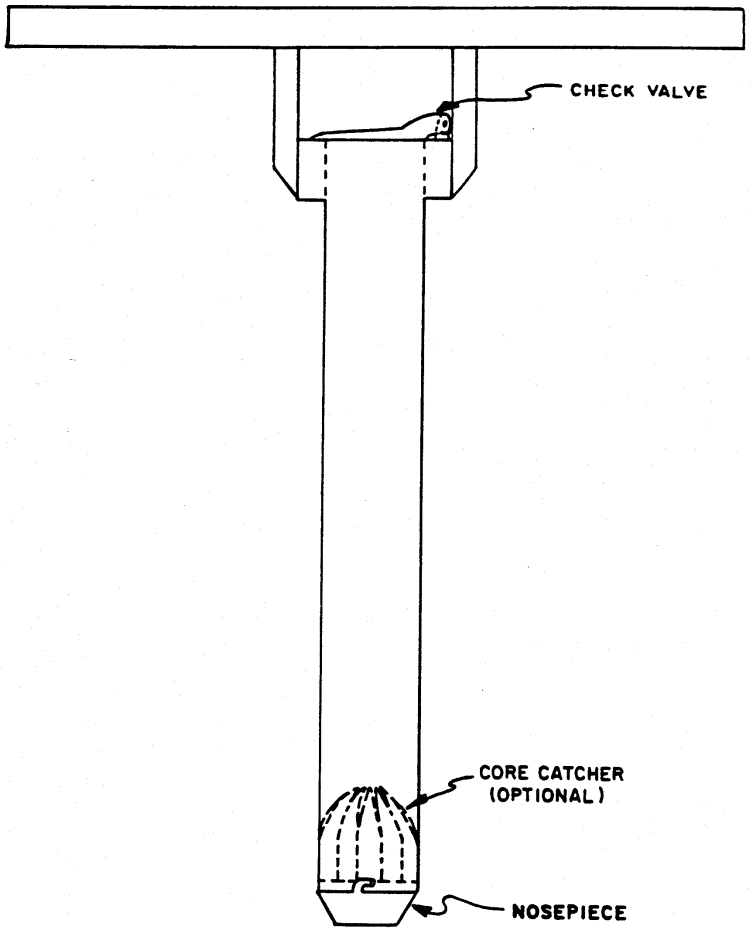


FIGURE 2

TRIER

TRIER

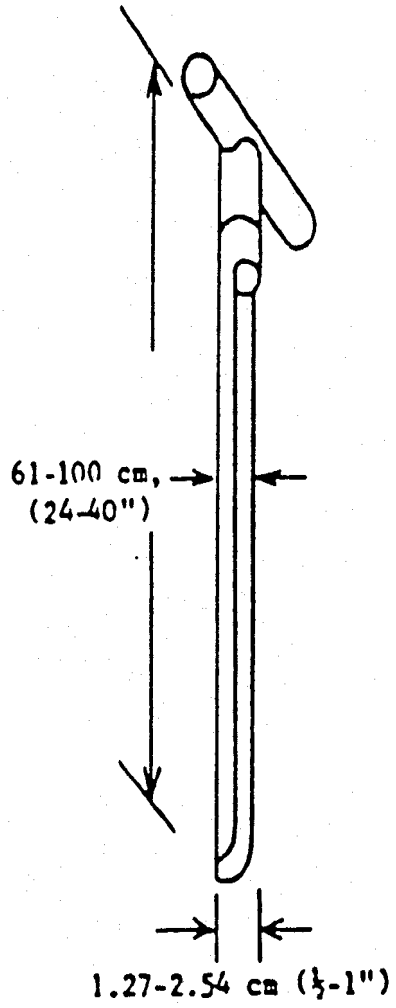


FIGURE 3

GENERIC SPLIT-SPOON SAMPLER

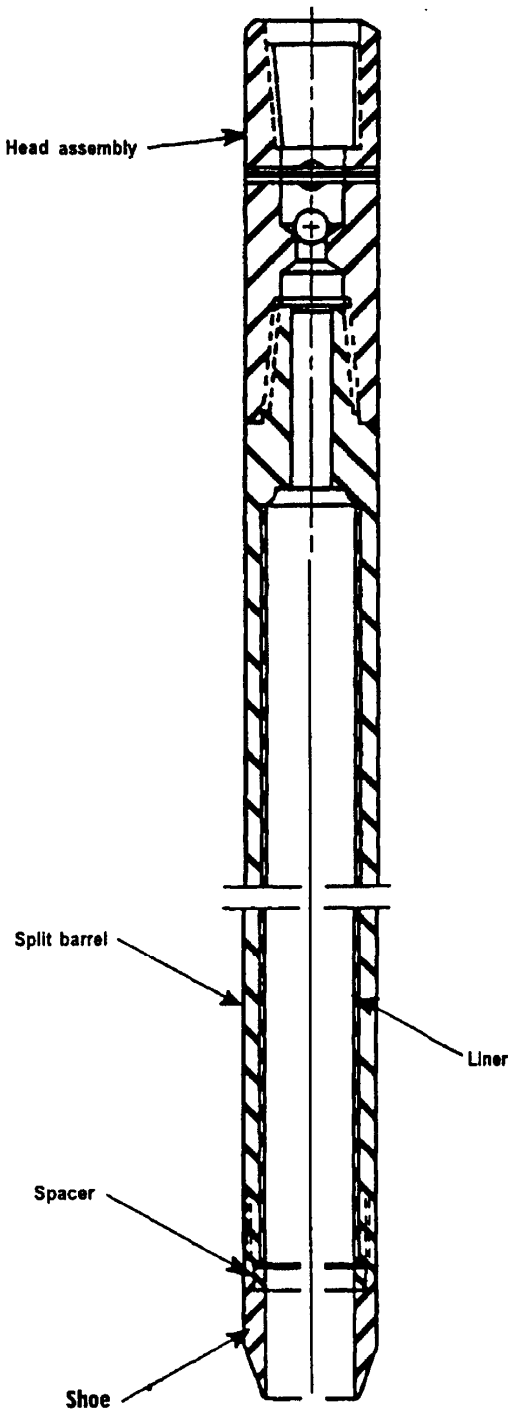
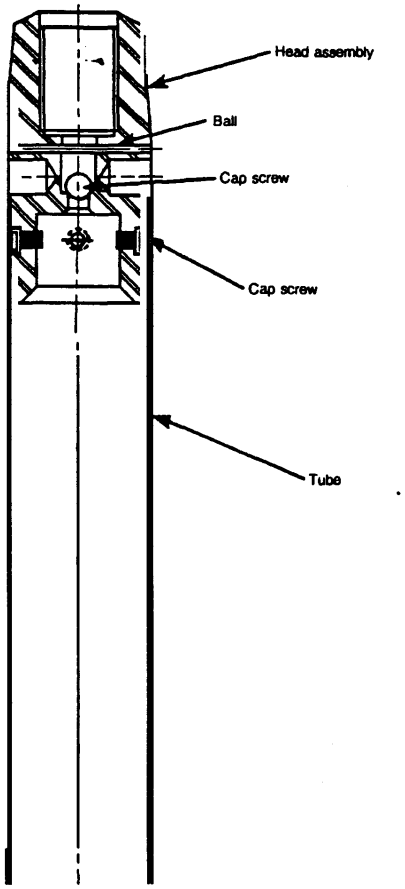


FIGURE 4

THIN-WALL TUBE SAMPLER



Appendix D

Soil Boring Logs and Monitoring Well Construction Diagrams

Tetra Tech Inc.
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Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-1**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
0		Asphalt and coarse gravel		100%		
		Gray/Brown silty clay with fine to coarse gravel				
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-2**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Asphalt and coarse gravel				
		Gray/brown silty clay with fine to coarse gravel and trace fine sand Moist 2' - 2.5'		100%		
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-3**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
0		Asphalt and coarse gravel		100%		
		Brown/gray/oragne silty clay with fine to coarse gravel and trace sand Moist from 3' - 3.5'				
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-4**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontarioi, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Asphalt and coarse gravel				
		Gray/brown silty clay with fine to coarse gravel		95%		
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-5**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
0		Asphalt and coarse gravel		96%		
		Coarse sand and gravel				
		Brown/gray silty clay with fine to coarse gravel				
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-6**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gray organic silty clay with grass and fine to coarse gravel				
		Gray/brown coarse silty sand and gravel. Moist.		75%		
5		Gray silty clay with fine sand and coarse gravel		75%		
10				88%		
15				100%		
		Gray/brown/rust red silty clay with roots and organic material. Trace sand.				
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA1-6**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				93%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete, coarse gravel Slight black stain at 1.2'				
		Brown silty clay with fine to coarse gravel		75%		
5				100%		
10				100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-2**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/8/11**	**FINISH DATE: 4/8/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete and coarse sand and gravel Moist from 1' - 1.5'				
		Brown/gray silty clay with fine to coarse gravel		70%		
5				100%		
10				100%		
15		Silty clay Black staining at 15' - 16'		85%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-2**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/8/11**	**FINISH DATE: 4/8/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-3**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/8/11**	**FINISH DATE: 4/8/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete and coarse gravel				
		Fill Material Brown coarse sand		50%		
5		Brown silty clay with fine to coarse gravel Slight black staining at 7.5' Trace sand at 15' - 17'		70%		
10				40%		
15				40%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA2-3**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/8/11**	**FINISH DATE: 4/8/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA3-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 35**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel				
		Silty clay with interspersed medium-coarse gravel		100%		
5				100%		
10		Coarse gravel				
		Gray silty clay Moist from 15' - 16'		100%		
15				100%		
20		Brown sandy clay		80%		
		Brown silty clay				
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA3-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 35**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Medium-coarse gravel				
		Brown/red sandy silty clay Slight black stain at 29.5'		40%		
30						
				100%		
35						
40						
45						
50						

Tetra Tech Inc.
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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA3-2**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Medium-coarse gravel				
		Silty clay and gravel		100%		
5		Gray packed silty clay 2" sand seam at 18'		100%		
10				100%		
15				100%		
20				100%		
25						

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250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA3-2**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gray silty clay with interspersed medium coarse gravel Rusty red sand seam at 29' - 29.5'		100%		
30						
35						
40						
45						
50						

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250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolf**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Fine gravel				
		Sand fill				
		Gray/Brown silty clay Black stain from 3' - 5' Moist from 10' - 12.5'		82%		
5				100%		
10				100%		
15				50%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolf**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-2**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Coarse-fine gravel				
		Brown silty clay Moist to wet 7.5' - 13' Black streaking 7.5' - 10' Black staining at 14.5'		100%		
5				100%		
10				80%		
15				100%		
20		Sand and gravel		100%		
		Gray silty clay Brown/red sand from 29.5' - 30'				
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-2**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-3**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Fill Material Fill material with medium gravel Black staining with petroleum odor at 1' - 1.5'		100%		
5		Brown silty clay with medium gravel		66%		
10		Gray/brown silty clay Trace black staining at 14.5'		100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-3**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-4**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/8/11**	**FINISH DATE: 4/8/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Fill Material Coarse sand and gravel Black cinders at 0.5'				
		Brown silty clay with fine to coarse gravel		100%		
5				100%		
10				100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA4-4**	**SHEET: 1 of 4**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 80'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		0' - 30' logged in SB4-4				
5						
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA4-4**	**SHEET: 2 of 4**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 80'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
30		Brown/gray silty clay with fine to coarse gravel		100%		
		Coarse brown sand at 38'		100%		
35				100%		
				100%		
				92%		
40				100%		
				100%		
45				100%		
				50%		
50				90%		

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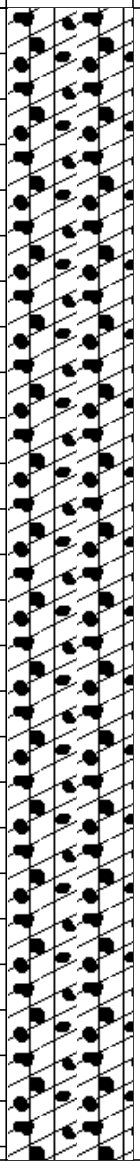
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA4-4**	**SHEET: 3 of 4**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 80'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
55				100%		
				100%		
				100%		
				90%		
60				50%		
				100%		
				100%		
65				100%		
				100%		
70				100%		
				90%		
75				100%		

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA4-4**	**SHEET: 4 of 4**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 80'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		White/gray weathered shale		37%		
		Brown silty clay		100%		
80						
85						
90						
95						
100						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-5**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Hard packed silty clay				
		Sandy clayey gravel Black stainging 2' - 2.5'		100%		
5		Coarse gravel				
		Black silty clay with intermixed medium and fine gravel		3%		
10		Silty clay Moist at 14' - 15 Black staining at 21"		68%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-5**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-6**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel overlay				
		Red sitly clay with intermixed fine-medium gravel. Sandy from 2' - 3' Moist from 4' - 6'		100%		
5				100%		
10		Tightly packed gray silty clay		100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-6**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Sandy clay		100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-7**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE		WELL GRAPHIC	REMARKS
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)		
		Fill material Gravel overlay				
		Fill material Red sandy clay		70%		
5		Red silty clay Moist from 5' - 7'		100%		
		Moist to wet gravely clay				
10		Dark brown/gray silty clay		100%		
15		Wet gravel/sand/clay layer at 17'		100%		
		Gray silty clay Moist 20' - 20.5'				
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-7**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				70%		
		Moist sandy clay				
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-8**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 5/12/11**	**FINISH DATE: 5/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel overlay				
		Hard packed brown silty clay		98%		
5						
				60%		
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-9**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 5/12/11**	**FINISH DATE: 5/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Silty clay and medium gravel		75%		
5				100		
10						
15						
20						
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA8-1 (Formerly IA4-10)	**SHEET: 1 of 2**
PROJECT NUMBER: 103S1071404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 5/12/11**	**FINISH DATE: 5/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Silty clay with intermixed sand and medium gravel		80%		
5		Sand and medium-coarse gravel		20%		
10		Brown silty clay Moist at 18'		100%		
15				100%		
20		Gray packed silty clay with fine gravel		100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA8-1 (Formerly IA4-10)**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S1071404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 5/12/11**	**FINISH DATE: 5/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Slightly damp silty san				
		Tightly packed gray silty clay		100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-11**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay, petroloeum odor				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown frim clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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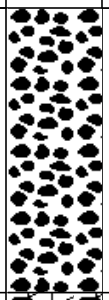
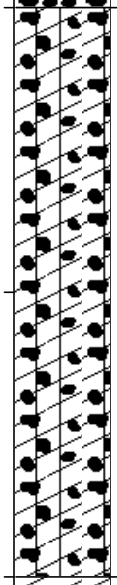
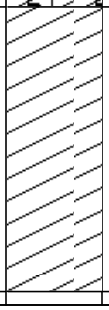
PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-12**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			WELL CONSTRUCTION
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	
		**GRAVEL** Gravel to 1' with dark band from 0.75'-1' bgs. Petroleum odor	2 0-2*	NS	100	
		**CLAY and GRAVEL** Brown firm clay with gravel				
		**CLAY** Light brown firm clay, slight odor	2 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-13**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push Core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel				
		CLAY and GRAVEL Light brown stiff clay with gravel, slight odor	3 0-2*	NS	100	No Well Construction
		GRAVEL Gravel	3 2-4*	NS	100	
		CLAY Brown stiff clay				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-14**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel, slight petroloeum odor	4 0-2*	NS	100	No well construction
		CLAY Brown/Grey firm clay	4 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-15**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel	5 0-2*	NS	100	No well construction
		CLAY Brown firm clay	5 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-16**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel	6 0-2*	NS	100	No well construction
		CLAY Brown/Grey stiff clay, petroleum odor	6 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-17**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel	7 0-2*	NS	100	No well construction
		CLAY Brown/Grey stiff clay with some gravel, slight petroleum odor	7 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-18**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL and CLAY Gravel with Brown clay, possible coal fragments from 1-2' bgs	8 0-2*	NS	100	No well construction
		CLAY Brown stiff clay with some gravel				
		UNKNOWN Black layer, possible coal or asphalt				
		CLAY Browm stiff clay	8 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-19**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL and CLAY Gravel with Brown clay, black band at 1' bgs, strong petroleum odor	9 0-2*	NS	100	No well construction
		CLAY Light Brown stiff clay	9 2-4*	NS	100	

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-20**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel	10 0-2*	NS	100	No well construction
		CLAY Brown/Grey stiff clay with some gravel	10 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-21**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL and CLAY Gravel with Brown stiff clay	11 0-2*	NS	100	No well construction
		CLAY Brown stiff clay with some gravel	11 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-22**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel	12 0-2*	NS	100	No well construction
		CLAY Grey stiff clay	12 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-23**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel with some Brown clay	13 0-2*	NS	100	No well construction
		CLAY Brown stiff clay	13 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-24**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel				No well construction
		CLAY Brown stiff clay	14 0-2*	NS	100	
		SAND Light Brown sand layer at 3' bgs	14 2-4*	NS	100	
		CLAY Brown stiff clay				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-25**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			WELL CONSTRUCTION
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	
		GRAVEL Gravel				
		CLAY Brown stiff clay	15 0-2*	NS	100	No well construction
		Light brown stiff clay at 2' bgs				
			15 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-26**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			WELL CONSTRUCTION
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	
		GRAVEL Gravel				
		CLAY Brown stiff clay	16 0-2*	NS	100	No well construction
		Light brown stiff clay at 2' bgs				
			16 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-27**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel				
		CLAY Brown stiff clay	17 0-2*	NS	100	No well construction
		Light brown stiff clay at 2' bgs				
			17 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-28**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Gravel	18 0-2*	NS	100	No well construction
		CLAY Brown/Grey stiff clay Light brown stiff clay at 2' bgs	18 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-29**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL and CLAY Gravel and Brown clay slight petroleum odor at 1' bgs	19 0-2*	NS	100	No well construction
		CLAY Brown stiff clay	19 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-30**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 12/5/11**	**FINISH DATE: 12/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL and CLAY Gravel and Brown clay slight petroleum odor at 1' bgs	20 0-2*	NS	100	No well construction
		CLAY Brown stiff clay	20 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-31**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-32**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-33**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-34**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-35**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-36**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-37**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Phase II	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA4-38**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208301	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping PLant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 4'**	
COUNTY: Richlands	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct push core**	**START DATE: 11/8/12**	**FINISH DATE: 11/8/12**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		Gravel Gravel with some sandy clay				No well construction
		CLAY_GRAVEL Brown, firm clay with some gravel	1 0-2*	NS	100	
		CLAY Brown firm clay, no odor	1 2-4*	NS	100	

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Topsoil with organic material				
		Brown silty sandy clay. Moist at 9.5'		72%		
5				50%		
10		Gray silty clay. Sand seam at 17' - 19' Gravel at 20' - 22'		30%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gray silty sandy clay with fine to coarse gravel		100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-2**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Topsoil and silty clay with organic material				
		Brown/gray silty sandy clay Moist at 9.5'		70%		
5						
				75%		
10						
		Brwon sand, wet				
		Gray silty clay		75%		
15						
				70%		
		Soft moist silty sand Gravel at 21' - 27' Wet at 25' - 27' Moist 27' - 28'				
20						
				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-2**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				70%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-3**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Topsoil				
		Gray silty clay with fine gravel		86%		
5		Silty sandy clay Moist at 7' - 10'		80%		
10		Silty clay with fine gravel and trace sand		86%		
15				100%		
20				100%		
25						

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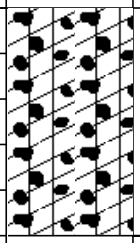
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-3**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-4**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
0		Top soil and silty clay with fine gravel and organic material				
		Brown/gray silty clay with fine to coarse gravel.		40%		
5						
		Brown/gray sandy clay Coarse gravel 15' - 15.5'		100%		
10						
				100%		
15						
				100%		
20		Brown/gray silty sandy clay with fine to coarse gravel Moist to wet at 20' - 24'				
				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA5-4**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/6/11**	**FINISH DATE: 4/6/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete				
		Brown/gray silty clay Intermixed fine gravel from 1' - 5' Trace black staining 1' - 5' Moist 21' - 24'		50%		
5				100%		
10				100%		
15				100%		
20		Brown silty sandy clay with intermixed gravel. Moist.		100%		
		Gray silty clay				
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/12/11**	**FINISH DATE: 4/12/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-2**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		SILTY CLAY Brown silty clay		2.0	100%	No Well Construction
		SILTY CLAY Brown silty clay with small pieces of coal present throughout				
		Wet at 4' bgs		4.0	100%	
5		**SAND and GRAVEL** Gravely sand, wet				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-3**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			WELL CONSTRUCTION
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	
		SILTY CLAY Brown silty clay with small pieces of coal intermixed		3.6	100%	No Well Construction
				2.9	100%	
		SAND Wet sand				
		CLAY Moist clay				
5						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-4**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		COAL Black coal		1.6	100%	No Well Construction
		SILTY CLAY Brown stiff silty clay		2.9	100%	
5						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-5**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		SILTY CLAY Brown stiff silty clay		3.3	100%	No Well Construction
		COAL Coal seam 2.5-3' bgs				
		SILTY CIAY Brown stiff silty clay		4.7	100%	
5						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-6**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		GRAVEL Wet gravel				
		CLAY Black clay and coal		5.6	100%	
				3.6	100%	
		SILTY CLAY Brown stiff silty clay				
5						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-7**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		CLAY and COAL Coal and clay to 2.5' bgs		3.5	100%	No Well Construction
		SILTY CLAY Brown silty clay with interspersed coal		3.9	100%	
5		**CLAY** Brown soft clay, moist				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-8**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		SILTY CLAY Dark brown silty clay with interspersed coal				
		COAL Coal layer at 1' bgs				
		SILTY CLAY Dark brown silty clay with interspersed coal		2.4	100%	
		COAL Coal layer at 3.5' bgs				
		SILTY CLAY Dark brown silty clay with interspersed coal		2.9	100%	
5						No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA6-9**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION: Not Measured**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL: Not Measured**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Direct Push**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		CLAY and GRAVEL Black wet clay & gravel				
		SILTY CLAY Brown silty clay with black streaks		1.6	100%	
		COAL Coal layer 3.5-4' bgs		2.1	100%	
		GRAVEL Gravel 4-5' bgs				
5						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-1	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel				
		Brown silty clay		100%		
5		Brown silty clay with intermixed medium-coarse gravel and sand		100%		
10				100%		
15		Black sand				
		Gray silty clay Moist 25' - 26'		100%		
20				100%		
25						

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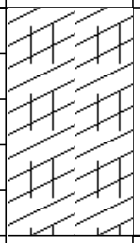
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-1	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				86%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-2	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel				
		Fine red medium gravel with brown silty clay		100%		
5				100%		
		Brown silty clay				
10		Gray silty clay with intermixed medium to coarse gravel Wet at 20' - 21'		100%		
15				100%		
20				82%		
		Light brown sand				
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-2	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Brown sandy, silty clay with coarse gravel		21%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-3	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Gravel				
		Brown silty clay with medium to coarse gravel Rusty red sand intermixed from 5' - 10'		100%		
5				100%		
10				100%		
15				100%		
20				100%		
25						

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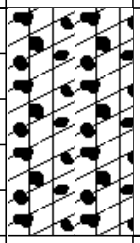
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** IA-14-3	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Vicky Farmer**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete and coarse sand/gravel				
		Brown/gray silty clay with fine to coarse gravel Red/purple staining at 18'		98%		
5				100%		
10				100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
		Gray fractured shale				
30		Light brown sand layer				
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-2**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 35'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete				
		Coarse sand and gravel				
		Brown/gray silty clay with fine to coarse gravel Moist 5' - 5.5'		90%		
5				100%		
		Weathered sandstone				
		Brown/gray silty clay with fine to coarse gravel				
10		Black/green staining at 28'		100%		
15				100%		
20				100%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-2**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 35'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/5/11**	**FINISH DATE: 4/5/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
				100%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-3**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete and coarse gravel				
		Brown silty claywith intermixed gravel throughout				
		5.5' - 7' black staining with petroleum odor		50%		
5						
				50%		
10						
				100%		
15						
				100%		
20						
				18%		
25						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-3**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 30'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		No recovery		0%		
30						
35						
40						
45						
50						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-4**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 55'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Concrete				
		Brown silty clay with fine to coarse intermixed gravel Trace sand throughout		75%		
5				100%		
10				100%		
15				100%		
20				100%		
25						

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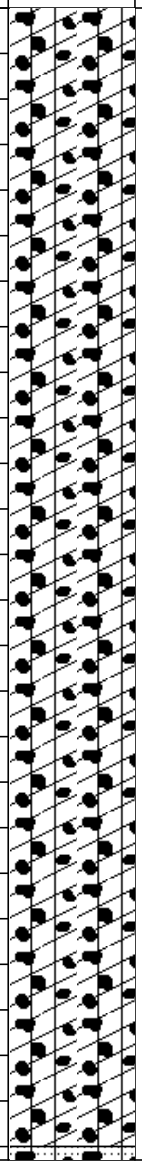
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-4**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 55'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
30				100%		
35				100%		
40				90%		
45				100%		
50				100%		

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA10-4**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Geoprobe**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 55'**	
COUNTY: Richland	**DRILLER: Andy Wolff**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD:**	**START DATE: 4/7/11**	**FINISH DATE: 4/7/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Coarse brown silty sand with fine gravel. Moist to wet				
		Gray silty clay		100%		
55						
60						
65						
70						
75						

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: SB6-10**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 60'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
		Brown/gray silty clay with fine to coarse gravel.		100%		
		Trace sand throughout.		100%		
5		Trace coal at 51'		60%		
				100%		
				100%		
10				100%		
				100%		
				100%		
15				100%		
				100%		
				100%		
20				100%		
				85%		
25				100%		

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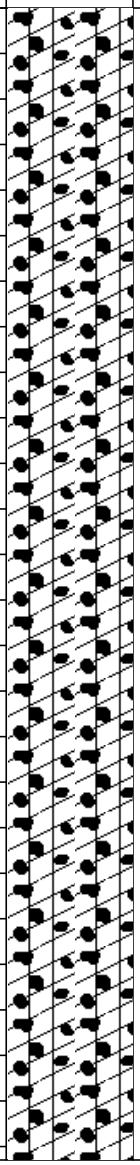
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: SB6-10**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 60'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
30				100%		
				100%		
35				100%		
				50%		
40				100%		
				85%		
45				100%		
				85%		
				100%		
50				100%		

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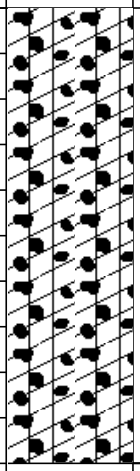
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: SB6-10**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION:**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 60'**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (%)	WELL GRAPHIC	REMARKS
55						
60						
65						
70						
75						

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-1**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY and GRAVEL Brown gravelly clay with metal, wood, & glass fill		0.0	100	
		SILTY CLAY Greyish Brown soft silty clay				
		FILL Black very hard coal-like substance				
		CLAY Dark grey soft clay. Has odor. Black coal-like fragments		1.8	100	
5		**CLAY** Grey soft clay	*	3.9	100	
		CLAY and GRAVEL Brown soft clay with some coarse gravel		0.3	100	
		CLAY Brown very soft clay		0.0	100	
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-2**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	90	No Well Construction
		CLAY and GRAVEL Dark Brown/Black gravelly clay				
		CLAY Brown soft clay with glass & plastic junk		1.0	90	
		CLAY and GRAVEL Grey soft clay with gravel				
		CLAY and GRAVEL Black gravelly clay with strong odor (kreosote like) Wood chunk at 4.75' bgs	*	8.2	90	
5		**CLAY** Grey soft clay				
		SILTY CLAY Brown soft silty clay		0.6	60	
				0.1	60	
		SAND Brown sand layer				
10		**CLAY** Brown soft clay				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-3**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY Brown soft clay with glass, metal, wood, & plastic fill		1.4	90	
		CLAY and SAND Brown soft clay with dark brown/black sandy substance & wood fragments		1.2	90	
		GRAVEL Coarse gravel layer				
		CLAY and GRAVEL Dark grey clay with gravel				
5		**FILL** Dark grey/black cinder fill with small metal discs & glass	*	8.2	90	
		CLAY Grey firm clay				
		SILTY CLAY Grey medium soft silty clay		0.6	60	
		Grades to brown at 6'		0.7	60	
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-4**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		FILL Gravelly fill with greyish clay		0.3	80	
		CLAY and SAND Brown thin sandstone layer then grey soft clay				
		FILL Black fill	*	3.8	80	
		CLAY Dark grey clay				
		FILL Dark grey/black cinder fill with small metal discs & glass				
5		**CLAY** Grey soft clay Brown spotting		3.5	80	
				0.6	50	
				0.3	50	
		SAND Hard sand/sandstone layer				
		SANDY CLAY Brown very soft sandy clay				
10						

No Well Construction

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-5**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.6	70	No Well Construction
		GRAVEL Coarse gravelwith some clay				
		CLAY and GRAVEL Brown gravelly clay Wood at 2.5' bgs	*	3.5	70	
		FILL Black gravelly fill with clay				
		CLAY Grey medium soft clay		0.5	70	
5		Mottled grey & brown from 5-8' bgs Grades softer at 8' bgs		0.2	70	
				0.1	70	
		SILTY CLAY Brown & grey very soft silty clay				
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-6**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.4	90	No Well Construction
		FILL Brown & black gravelly fill & clay				
		CLAY Grey soft clay with fill		4.0	90	
		GRAVEL Coarse gravel				
		SILTY CLAY Dark grey silty clay with fill				
		CLAY Grey firm clay				
5		**CLAY and GRAVEL** Grey firm clay with gravel	*	7.3	90	
		Grades soft		0.5	90	
		Grades brown		0.2	90	
		SANDY CLAY Brown sandy clay				
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-7**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.3	80	No Well Construction
		CLAY Brown soft clay with fill				
		Grades dark greyat 3' bgs		1.6	80	
		FILL Black cinder fill				
5		**CLAY** Dark grey firm clay	*	7.9	90	
		SILTY CLAY Light grey soft silty clay		0.4	90	
		Grades brown at 7' bgs				
		Orange sandy clay at 9' bgs		0.2	90	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-8**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		FILL Asphalt & grvel fill		0.5	90	
		CLAY and GRAVEL Brown soft clay with fill & coarse gravel		0.5	90	
		FILL Black fill with metal & wood. Tar-like odor				
5		**CLAY** Grey firm clay	*	5.9	90	
				0.6	70	
		SAND Brown sandy layer				
		CLAY Grey & brown soft clay		0.6	70	
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #:IA13-9**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.6	40	No Well Construction
		CLAY and GRAVEL Brown soft clay & gravel		0.8	40	
		SANDY CLAY and GRAVEL Dark Brown sandy clay with fill & gravel		1.3	70	
5		**CLAY** Grey soft clay				
		Grades brown	*	0.6	100	
		Grade very soft		0.8	100	
10		**SANDY SILTY CLAY** Brown very soft sandy silty clay				

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-10**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		1.2	50	No Well Construction
		CLAY and GRAVEL Brown soft clay & gravel		1.0	50	
		SANDY CLAY and GRAVEL Dark Brown sandy clay with fill & gravel Large piece of wood with strong odor at 4.5' bgs	*	12.0	75	
5		**CLAY** Grey soft clay		1.1	100	
		Grades brown		0.7	100	
10						

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-11**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY and GRAVEL Brown soft clay & gravel fill		0.7	80	
		CLAY Brown soft clay Hard black tar-like layer @ 2.5' bgs with strong odor. PID -103.9ppm				
		CLAY and GRAVEL Dark brown & grey soft clay with grvel Grades to black	*	62.7	80	
		FILL Black gravelly fill material				
5		**CLAY** Grey firm clay Low recovery		3.3	80	
				1.9	20	
				1.9	20	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-12**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY and GRAVEL Dark brown soft clay & gravely fill		1.2	80	
		Grades to grey				
		FILL Black gravely fill	*	5.2	80	
		CLAY Grey firm clay		4.7	90	
5		Grades brown				
		Grades to mottled brown & grey		1.0	100	
		Grades soft				
		Grades brown & very soft		0.7	100	
		SANDY CLAY Brown soft sandy clay				
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-13**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.4	80	No Well Construction
		FILL Wood clay & gravel fill				
		CLAY Grey soft clay		4.5	80	
		FILL Black fill				
		CLAY Grey firm clay				
5		**SANDY CLAY** Grey sandy clay	*	5.4	80	
		Grades to brown sandy & gravely clay		1.1	80	
		CLAY Brown firm clay		0.5	80	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-14**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.7	50	No Well Construction
		CLAY and GRAVEL Brown soft clay & fill material Grades dark brown	*	18.5	50	
		CLAY Dark Grey soft clay with some gravel				
		FILL Black fill & gravel		8.8	50	
5		**CLAY** Grey & brown soft clay Low recovery		1.5	30	
				1.1	30	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-15**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/13/13**	**FINISH DATE: 6/13/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		1.0	50	No Well Construction
		CLAY and GRAVEL Brown soft clay & gravel Grades dark brown		5.4	50	
		FILL Black fill				
5		**CLAY** Grey firm clay Grades brown Low recovery	*	5.7	50	
				0.2	30	
				0.2	30	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-16**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.1	50	No Well Construction
		FILL Brown soft clay & cinder fill	*	0.5	50	
		CLAY Brown soft clay				
		FILL Black fill & cinders		0.1	55	
5		**CLAY** Grey firm clay Grades to medium soft		0.0	60	
				0.0	60	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-17**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	50	No Well Construction
		CLAY Brown firm clay				
		FILL Dark brown/black cinders & fill material	*	1.2	50	
		Grades to fill & clay				
		CLAY Greyish brown medium soft clay		0.0	65	
5				0.0	80	
				0.0	80	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-18**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	50	No Well Construction
		CLAY Brown soft clay Some gravel at 2' bgs		0.2	50	
		GRAVEL Coarse gravel layer at 3' bgs **FILL** Black fill material with gravel & brown soft clay				
5		**CLAY** Grey & brown mottled soft clay	*	0.5	65	
				0.0	80	
				0.0	80	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-19**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	80	No Well Construction
		CLAY Brown soft clay with some gravel		0.0	80	
		GRAVEL Coarse gravel layer at 3.5' bgs				
		CLAY Grey & brown mottled soft clay				
5			*	0.2	80	
				0.0	80	
				0.0	80	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-20**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	100	No Well Construction
		GRAVEL Coarse gravel				
		CLAY Dark brown soft clay with some fill				
		FILL Black hard fill material	*	0.6	100	
		CLAY Grey soft clay				
		Grades brown 4-5' bgs		0.4	100	
5				0.0	100	
				0.0	100	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-21**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.0	70	No Well Construction
		CLAY and GRAVEL Brown soft clay & gravel				
		FILL Black fill& brown clay	*	0.6	70	
		CLAY Dark grey soft clay				
		SAND Grey sandy layer at 4' bgs				
		CLAY Grey soft clay		0.2	70	
5						
		Grades brown at 7' bgs		0.0	70	
				0.0	70	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-22**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		CLAY and GRAVEL Brown soft clay & gravel		0.2	70	
		CLAY Brown soft clay				
		FILL Black clay & fill with wood, glass, cinders, & metal	*	2.0	70	
5		**CLAY** Grey soft clay		0.7	70	
				0.1	70	
				0.0	70	
10						No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-23**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		CLAY and GRAVEL Brown soft clay & gravel		0.0	45	
		CLAY Brown soft clay with fill material				
		Grades black		0.2	45	
		FILL Black fill				
		Strong odor	*	7.6	45	
5		**CLAY** Grey soft clay				
		Grades brown at 6-7' bgs		0.4	45	
				0.1	45	
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-24**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		CLAY and GRAVEL Brown soft clay & coarse gravel		0.1	90	
		CLAY Brown soft clay with dark brown fill material				
		GRAVEL Black Gravel & fill		1.1	90	
		CLAY and GRAVEL Brown soft clay & gravel				
5		**FILL** Black fill material	*	194.8	70	
		SANDY CLAY Grey sandy clay Low recovery		0.9	25	
				0.9	25	
10						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-25**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		CLAY and GRAVEL Brown soft clay & gravel		0.0	70	
		FILL Dark Brown/black fill material-asphalt				
		GRAVEL Brown coarse gravel/sandstone	*	0.5	70	
		CLAY Brown soft clay				
5		**SANDY CLAY** Brown sandy clay		0.3	80	
		CLAY and GRAVEL Brown clay with gravel		0.0	90	
		CLAY Grey firm clay		0.0	90	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-26**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs		0.7	90	No Well Construction
		CLAY and GRAVEL Brown soft clay & gravel	*	2.2	90	
		FILL Dark Brown/black fill with metal scraps				
5		**CLAY** Brown firm clay Grey at 5' bgs		0.7	90	
		Grades brown		0.1	90	
				0.0	90	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-27**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY and GRAVEL Brown soft clay & gravel	*	0.9	100	
		CLAY Dark Brown soft clay				
		Grades brown		0.9	100	
		FILL Black fill				
		CLAY Grey soft clay		0.1	100	
5						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-28**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		GRAVEL Coarse gravel		0.3	80	
		FILL Black & brown clay & fill				
		GRAVEL Coarse gravel & quartz rock	*	1.7	80	
		FILL Black fill				
		CLAY Brown soft clay		0.1	80	
5						No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-29**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE:** MW ☐ PIEZO ☐ SB ☑	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY Brown soft clay gravel layer at 1.25' bgs		0.1	80	
		FILL Black fill Asphalt at 3.5' bgs	*	11.3	80	
		GRAVEL Coarse gravel				
		CLAY Brown soft clay		0.1	80	
5						No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-30**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs				
		CLAY and GRAVEL Brown soft clay & gravel		0.6	90	
			*	0.4	90	
5		**GRAVEL** Coarse gravel		2.1	90	
		FILL Black fill 5-6' bgs				
		CLAY Grey soft clay				
				0.2	90	
		Grades brown				
		Grades very soft	*	0.0	90	
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-31**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 10'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 1' bgs Gravel at 6" bgs		0.0	50	
		CLAY and GRAVEL Brown soft clay & gravel		0.1	50	
		CLAY Brown soft clay Very soft at 4' bgs Firm at 4.75-5' bgs Grey soft at 5' bgs Very low recovery 5-10'	*	0.0	50	
				0.0	20	
				0.0	20	
5						No Well Construction
10						

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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PROJECT NAME: Mansfield - Racer Trust	**DRILLING COMPANY: HAD**	**BOREHOLE #: IA13-32**	**SHEET: 1 of 1**
PROJECT NUMBER: 103P208303	**RIG TYPE: GeoProbe**	**ELEVATION: Not Measured**	
SITE NAME: GM Stamping plant	**BORING TYPE: MW ☐ PIEZO ☐ SB ☑**	**TOTAL DEPTH: 5'**	
COUNTY: Richland	**DRILLER: Greg**	**STATIC WATER LEVEL: Not Encountered**	
CITY, STATE: Mansfield, OH	**LOGGED BY: Brandon Helm**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Carl Rhodes	**SAMPLING METHOD: Direct Push**	**START DATE: 6/14/13**	**FINISH DATE: 6/14/13**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	PID (ppm) "bagged"	RECOVERY (%)	WELL CONSTRUCTION
		TOPSOIL Brown topsoil to 6" bgs				
		CLAY Brown soft clay	*	0.0	100	
		Firm at 1.5-2' bgs				
		Grades soft at 3' bgs		0.0	100	
				0.0	100	
5						

No Well Construction

NOTES: ft or '= feet bgs = below ground surface * = Indicates Sample Submitted for Laboratory Analysis

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Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW1-6**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.79**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 55**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)		WELL CONSTRUCTION
0		Brown silty claywith fine to coarse gravel		100%		
				75%		
5				50%		
				25%		
		Brown silty clay, slightly moist				
		Brown/gray silty clay with fine to coarse gravel		100%		
10				75%		
15						
20						
25						

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW1-6**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.79**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 55**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
30		Black cinders/sand		70%		
		Brown/gray silty clay with fine to coarse gravel. Coarse sand at 34.0' - 34.75' Slightyly moist 44.75' - 45.0'		100%		
35				100%		
				100%		
				70%		
40				100%		
				100%		
45				100%		
		Brown silty sand with fine gravel, slightly moist		90%		
		Gray/brown silty clay with fine to coarse gravel		25%		
50						

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW1-6**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.79**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 55**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
55				50% 100%	
60					
65					
70					
75					

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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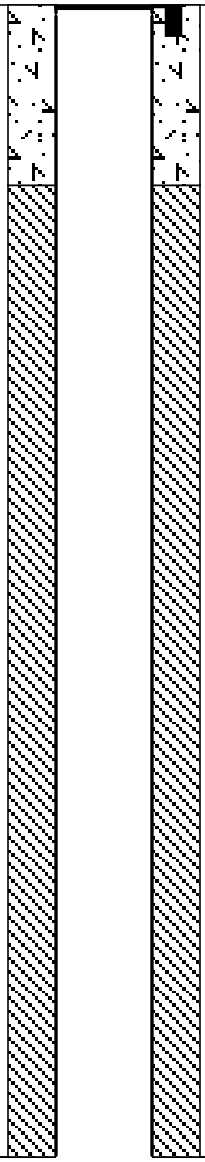
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-1**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1398.27**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 57**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montofort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/15/11**	**FINISH DATE: 4/15/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Concrete and coarse gravel		25%		
5		Brown silty clay with fine to coarse gravel		75%		
10		Brown silty clay with intermixed coarse sand		75%		
		Brown silty clay with fine to coarse gravel				
15		Brown/gray silty clay with fine to coarse gravel		100%		
20				100%		
25						



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-1**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1398.27**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 57**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montofort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/15/11**	**FINISH DATE: 4/15/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)		WELL CONSTRUCTION
30				90%		
35				100%		
40				100%		
45				100%		
50		Gray silty, sandy clay Moist at 47' Moist to wet at 49'		100% 100%		DTW on 4/27/11

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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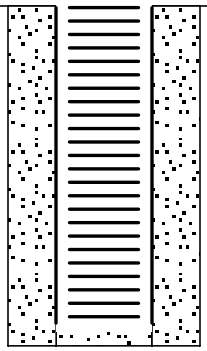
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-1**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1398.27**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 57**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montofort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/15/11**	**FINISH DATE: 4/15/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
55		Coarse silty sand Moist at 51' Wet at 52' Coarse silty sandy clay Wet at 53' Dry at 54' Wet at 55'		100% 100% 100%	
60					
65					
70					
75					

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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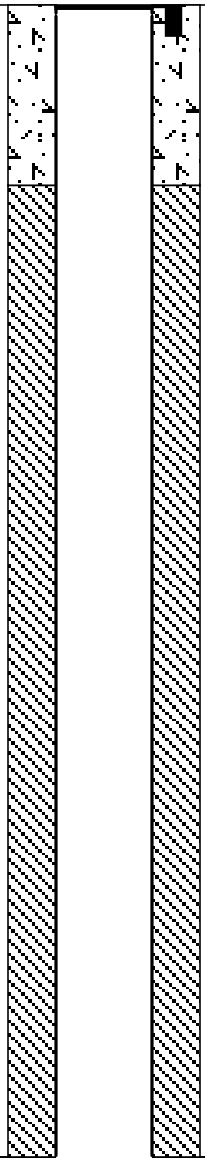
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-2**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.64**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 52**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/18/11**	**FINISH DATE: 4/18/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Not sampled or collected 0-40' bgs				
5						
10						
15						
20						
25						



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-2**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.64**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☑ PIEZO ☐ SB ☐	**TOTAL DEPTH: 52**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/18/11**	**FINISH DATE: 4/18/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
30						
35						
40		Gray/Brown silty sandy clay with fine to coarse gravel. Moist to 46' Wet 46'-47'		60% 100%		
45				100%		
		Silty clay Wet at 48' - 49' Moist 49' - 51'		100%		
50				90%		

DTW on 4/27/11

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW2-2**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1396.64**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 52**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/18/11**	**FINISH DATE: 4/18/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
				100%	
55					
60					
65					
70					
75					

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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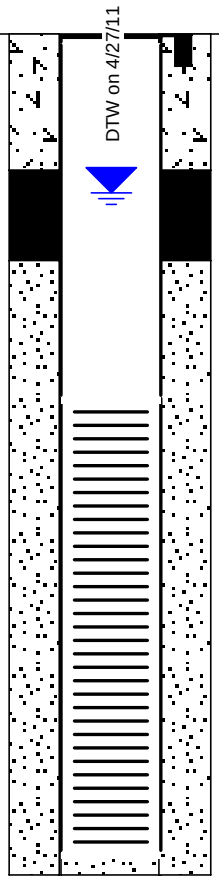
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW4-7**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1400.82**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 18**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)		WELL CONSTRUCTION
		Coarse sand and gravel with trace silty clay. Moist from 1' - 2'		75%		
		Brown silty clay with fine to coarse gravel. Moist at 6' - 10'		40%		
5				25%		
				100%		
10				100%		
		Coarse silty sand Moist from 11' - 12' Wet from 12' - 13.5'		60%		
		Silty clay Moist 13.5' - 15'		100%		
15		Silty sandy clay Moist to we from 15' - 17		100%		
20						
25						



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1365.99**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 28**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/20/11**	**FINISH DATE: 4/20/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Not sampled or collected 0-5' bgs				
5		Brown/gray silty clay with trace sand		55%		
10		Brown/gray silty clay with fine to coarse gravel Slightly moist at 22' Moist to wet at 24' - 25'		100%	DTW on 4/27/11	
15				75%		
20				100%		
				100%		
25				100%		

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1365.99**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 28**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/20/11**	**FINISH DATE: 4/20/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
				75%		
30						
35						
40						
45						
50						

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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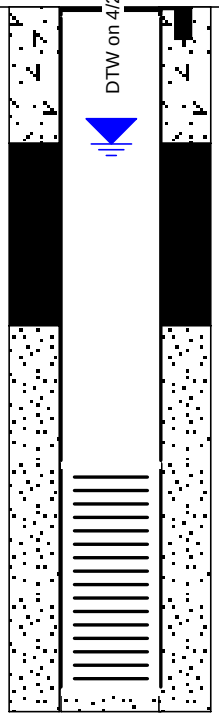
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-2S**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1369.07**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/21/11**	**FINISH DATE: 4/21/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
0		Brown silty clay with fine to coarse gravel and trace sand. Black staining at 1.5'		90%		
5				75%		
10		Brown/gray silty sandy clay Moist to wet at 12'		25%		
15				75%		
20				70%		
25						



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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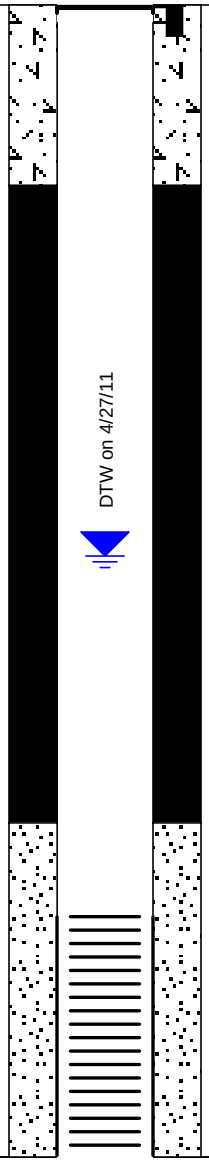
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-2D**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1369.12**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☑ PIEZO ☐ SB ☐	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/21/11**	**FINISH DATE: 4/21/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)		WELL CONSTRUCTION
0		Brown silty clay with fine to coarse gravel and trace sand. Black staining at 1.5'		90%		
5				75%		
10		Brown/gray silty sandy clay Moist to wet at 12'		25%		
15		Wet sand and gravel		75%		
		Moist silty clay with trace sand				
20		Wet sand and gravel		70%		
25						



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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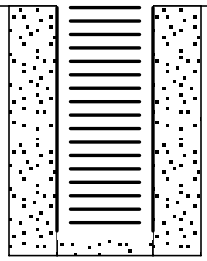
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-2D**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1369.12**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 30**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/21/11**	**FINISH DATE: 4/21/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
		Moist silty sandy clay		75%	
30					
35					
40					
45					
50					



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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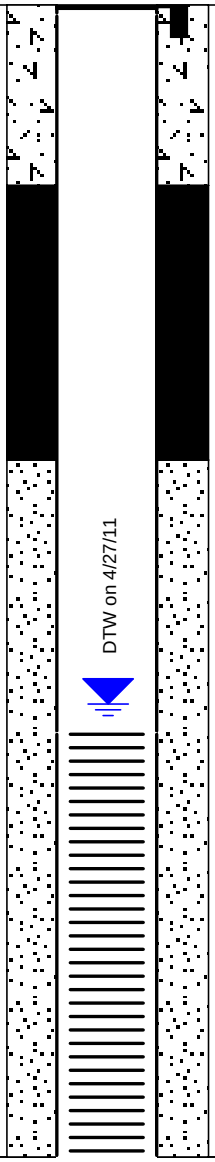
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-4**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1368.75**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☑ PIEZO ☐ SB ☐	**TOTAL DEPTH: 26**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/21/11**	**FINISH DATE: 4/21/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Not Sampled 0 - 20' not sampled or logged				
20		Brown/gray silty clay with fine to coarse gravel Moist at 21' Moist to wet at 22.75' - 23.25'		60%		
25		Wet silty sandy clay		100% 60%		



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW5-4**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1368.75**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 26**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/21/11**	**FINISH DATE: 4/21/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Silty clay (dry)				
30						
35						
40						
45						
50						

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

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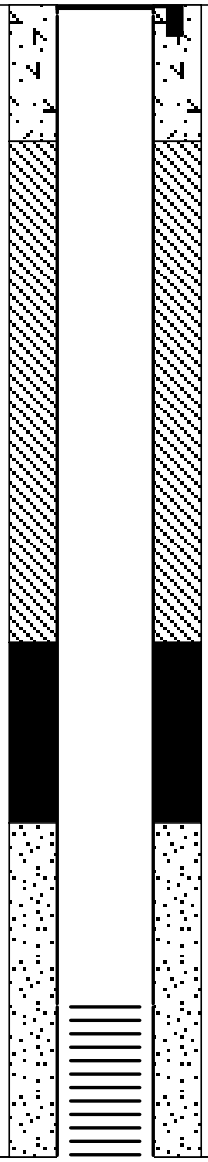
PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW6-1**	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1401.05**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 32**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
		Concrete			
		Brown/gray silty clay Trace black staining at 3'			
5					
10					
15					
20		Gray silty clay with fine to coarse gravel Moist silty sandy clay layer at 23.25' - 23.75'		55% 100%	
25		Silty clay with trace sand Moist to wet 24' - 25.75'		100%	



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW6-1**	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1401.05**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 32**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/14/11**	**FINISH DATE: 4/14/11**

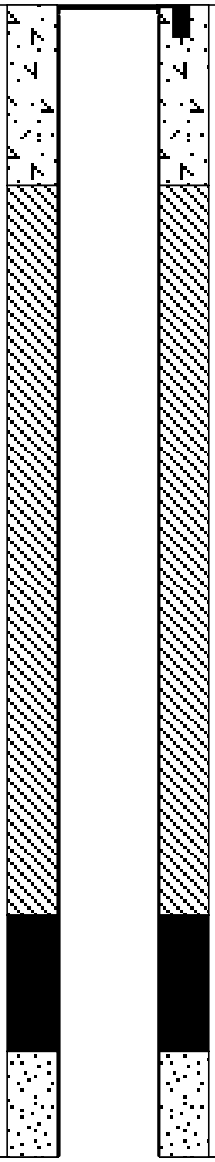
SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
30				100%	DTW on 4/27/11
				100%	
35					
40					
45					
50					

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE** MW14-4	**SHEET: 1 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1382.94**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** **MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 40**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL: 34.16**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/20/11**	**FINISH DATE: 4/20/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)		WELL CONSTRUCTION
		Not sampled or collected 0-15' bgs				
5						
10						
15		Brown/gray silty clay with fine to coarse gravel		100%		
				100%		
20				75%		
				100%		
25				100%		



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #:** MW14-4	**SHEET: 2 of 2**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1382.94**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☑ PIEZO ☐ SB ☐	**TOTAL DEPTH: 40**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL: 34.16**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/20/11**	**FINISH DATE: 4/20/11**

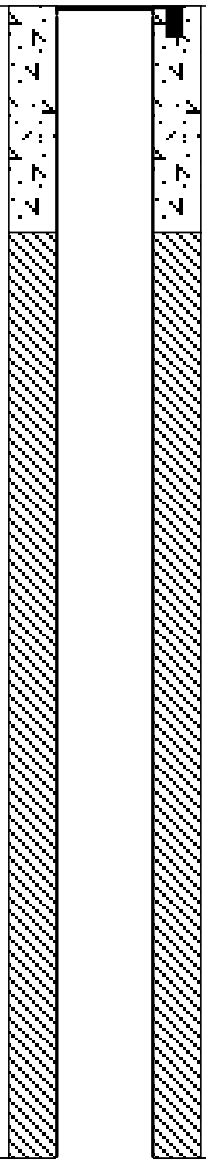
SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
30		Silty sand Moist at 30', 31', 37'		100% 100% 90% 100% 60% 90% 100% 100% 50% 60%	DTW on 4/27/11	
35						
40						
45						
50						

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Pland	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW10-1**	**SHEET: 1 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1397.9**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 60**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
		Concrete overburden				
5		Brown/gray silty clay with fine to coarse gravel. Trace coarse sand Moist at 23'		50%		
				60%		
				100%		
10				50%		
				50%		
15				70%		
				70%		
				75%		
20				70%		
				60%		
25				60%		



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Pland	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW10-1**	**SHEET: 2 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1397.9**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 60**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

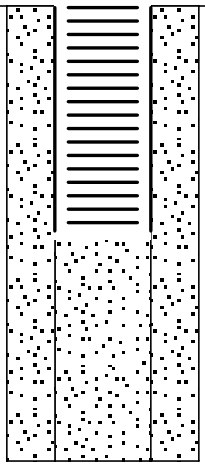
SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION	
30				60%		
				100%		
				75%		
35				25%		
				60%		
				100%		
40				100%		
				100%		
				100%		DTW on 4/27/11
45		Gray silty clay with intermittent fine gravel. Wet at 48' - 50'		90%		
				90%		
50				100%		

NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Pland	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW10-1**	**SHEET: 3 of 3**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1397.9**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE: MW ☑ PIEZO ☐ SB ☐**	**TOTAL DEPTH: 60**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/11/11**	**FINISH DATE: 4/11/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
55		Wet silty sand Gray silty clay		100% 95% 100% 100% 100%	
60					
65					
70					
75					

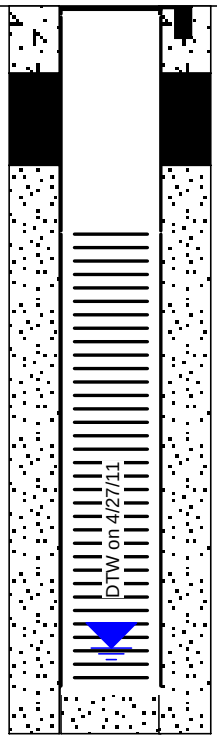


NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Tetra Tech EM Inc.
250 W. Court St., Suite 200W
Cincinnati, Ohio 45202

PROJECT NAME: Mansfield Stamping Plant	**DRILLING COMPANY: HAD**	**BOREHOLE #: MW10-2**	**SHEET: 1 of 1**
PROJECT NUMBER: 103S171404	**RIG TYPE: Direct Push**	**ELEVATION: 1397.69**	
SITE NAME: Mansfield Stamping Plant	**BORING TYPE:** MW ☑ PIEZO ☐ SB ☐	**TOTAL DEPTH: 16**	
COUNTY: Richland	**DRILLER:**	**STATIC WATER LEVEL:**	
CITY, STATE: Ontario, Ohio	**LOGGED BY: Kemp Jaycox**	**BOREHOLE DIAMETER: 2"**	
PROJECT MANAGER: Guy Montfort	**SAMPLING METHOD: Split Spoon**	**START DATE: 4/13/11**	**FINISH DATE: 4/13/11**

SUBSURFACE PROFILE			SAMPLE			
DEPTH (FT)	LITHOLOGY	DESCRIPTION	SAMPLE ID	RECOVERY (ft)	WELL CONSTRUCTION
0		Concrete and coarse gravel			
		Brown/gray silty clay with fine to coarse gravel		90%	
5				95%	
				60%	
10				95%	
				50%	
15				90%	
				90%	
20					
25					



NOTES: FT - feet
MSL - mean sea level
BGS - below ground surface

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 165242

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *GENERAL MOTORS*

County: *RICHLAND* **Township:** *SPRINGFIELD* **Section Number:** *14*

Address: *30 N SR* **Lot Number:**

City: **State:** *OH* **Zip Code:**

Location Number: *238* **Location Map Year:** *1991* **Location Area:**

Latitude: *40.772078* **Longitude:** *-82.600117*

CONSTRUCTION DETAILS

Borehole Diameter: **1:** **Borehole Depth:** **1:** *220 ft.* **Depth to Bedrock:**

2: **2:**

Casing Diameter: **1:** *6 in.* **Casing Length:** **1:** *76 ft.* **Casing Thickness:** **1:**

2: **2:** **2:**

Casing Height Above Ground: **Aquifer Type:** *SHALE*

Date of Completion: *6/28/1956* **Total Depth:** *220 ft.* **Well Use:**

Driller's Name: *EICHOF DRILLING CO*

Screen Diameter: **Slot Size:** **Screen Length:**

Type: **Material:**

Set Between:

Gravel Pack Material/Size: **Vol/Wt Used:**

Method of Installation: **Placed:**

Grout Material/Size: **Vol/Wt Used:**

Method of Installation: **Placed**

WELL TEST DETAILS

Static Water Level: *125 ft.* **Test Rate:** **Associated Reports**

Drawdown: *5 ft.* **Test Duration:** *NONE*

COMMENTS: *NONE*

WELL LOG

Formations	From	To
CLAY	0	28
GRAVEL & CLAY	28	72
SANDSTONE	72	218
SHALE	218	220

Printing Tips (opens in new window)

Print This Page Return to County Search

Well log questions - Web site questions - Web policies

Appendix E

Legal Description/Survey Plant

VOL 403 PAGE 536

OHIO WARRANTY DEED No. 31. #71758 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That Albert H. Beer and Florence E. Beer, husband and wife

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~whose mailing address is~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~his~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio and known as part of the Southwest Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning on the south line of said Quarter Section at a point 250.5 feet west from the southeast corner thereof; thence north, parallel with the east line of said Quarter Section, 1896 feet to the old center line of Mansfield-Crestline Road (U.S. 30N); thence northwesterly, along said center line, to the west line of said Quarter Section; thence south to the southwest corner of said Quarter Section; thence east to the place of beginning, containing 122.9 acres, more or less, but subject to all legal highways.

Transferred: July 8, 1955 MLH;bp
Received: July 8, 1955 at 3:52 PM
Recorded: July 11, 1955
Recorder's fee $2.10 D. D. Orewiler
Recorder

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~xhxirx~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee, its successors

~~xhxirx~~ and assigns, that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easements to Logan Natural Gas and Fuel Company and recorded at Lease Volume 4, Pages 391 and 392; except easement to The Marion Reserve Power Company and recorded at Deed Volume 240, Page 123; ~~except easements to Logan Natural Gas and recorded at Deed Volume 403, Page 328~~

VOL 403 PAGE 539

OHIO WARRANTY DEED No. 31. #71759 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That

Tamson M. Craig, unmarried
Hazel M. Craig, unmarried
Ruth F. Craig, unmarried
Edna F. Craig, unmarried

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~whose address is~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~heirs~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio:

Parcel 1.

Being part of the Southeast Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning at the southwest corner of said Quarter Section; thence east, along the south line of said Quarter Section, 47.92 rods; thence north, parallel with the west line of said Quarter Section, to the north line thereof; thence west 47.92 rods to the northwest corner of said Quarter Section; thence south to the place of beginning, containing 47 acres, more or less, but subject to all legal highways. Excepting therefrom that portion lying north of the old center line of Mansfield-Crestline Road (U.S. 30N).

Parcel 2.

Being part of the Southwest Quarter of Section 14, Township 21, Range 19 and described as follows: Beginning at the southeast corner of said Quarter Section; thence west, along the south line of said Quarter Section, 14.3 rods; thence north, parallel with the east line of said Quarter Section, 113.36 rods to the southerly line of old Mansfield-Crestline Road (U.S. 30N); thence easterly, along said southerly line, 14.61 rods to the east line of said Quarter Section; thence south 110.36 rods to the place of beginning, containing 10 acres, more or less, but subject to all legal highways.

Parcel 3.

Being part of the Northeast Quarter of Section 23, Township 21, Range 19 and described as follows: Beginning at the northwest corner of said Quarter; thence south, along the west line of said Quarter, 25 rods; thence east, parallel with the north line of said Quarter, 47.5 rods; thence north, parallel with the west line of said Quarter, 25 rods; thence west, along the north line of said Quarter, 47.5 rods to the place of beginning, containing 7.5 acres, more or less, but subject to all legal highways.

VOL 403 PAGE 540

Transferred: July 8, 1955 NLW; bp.
Received: July 8, 1955 at 3:53 PM
Recorded: July 11, 1955
Recorder's fee $ 2.10 D. D. Orewiler
Recorder

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~heirs~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee

its successors
~~heirs~~ and assigns,

that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; ~~except taxes and assessments~~ except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easement to The Ohio Public Service Company recorded at Deed Volume 215, Page 306; except easement to The Marion Reserve Power Company recorded at Deed Volume 240, Page 88; except easement to Sinclair Refining Company recorded at Deed Volume 286, Page 55; except easements to Ohio Edison Company recorded at Deed Volume 344, Page 160 and Deed Volume 352, Page 25.

VOL 403 PAGE 541

at Deed Volume 344, Page 160 and Deed Volume 352, Page 25.

VOL. 403 PAGE 541

In Witness Whereof, *The said* grantors

who hereby release all their *right and expectancy of Dower in the said premises, ha ve hereunto set* their *hands* this 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five.

Signed and acknowledged in presence of—

Thomas J. McDermott
Bernice Neal

Tamson M. Craig
Tamson M. Craig

Hazel M. Craig
Hazel M. Craig

Ruth F. Craig
Ruth F. Craig

Edna F. Craig
Edna F. Craig

State of Ohio **County of** Richland **ss.**

Be it Remembered, That on the 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five *before me, the subscriber, a* notary public *in and for said county, personally came*

Tamson M. Craig, Hazel M. Craig, Ruth F. Craig, and Edna F. Craig

the grantor s in the foregoing Deed, and acknowledged the signing thereof to be their *voluntary act and deed.*

In Testimony Whereof, *I have hereunto subscribed my name and affixed my* official *seal on the day and year last aforesaid.*

Thomas J. McDermott
Notary public

(1) Include reference to volume and page of next preceding recorded instrument by or through which grantor claims title. (R.C. § 313.29)

VOL 403 PAGE 555

QUITCLAIM DEED

Know all Men by these Presents

That,

Jack Matuck and Goldie Matuck, his wife

, the Grantor(s),

for the consideration of One Dollar and other valuable considerations paid by General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan , the Grantee(s), the receipt of which is hereby acknowleged, do(es) GIVE, GRANT, REMISE, RELEASE and FOREVER QUITCLAIM unto the said Grantee(s), its/successors heirs and assigns, the following described premises, situated in the Township of Springfield , County of Richland and State of Ohio.

Known as the north half of the Northwest Quarter of Section 23, Township 21, Range 19, containing 80 acres, more or less, but subject to all legal highways.

The intention of this deed is to release all of our right, title and interest that we hold as lessees of Lee Gages, Jessie Ruth Harland, Vivian Gages, Eleanor Gages Rinehart, Vera Gages Light (also known as Vera Gages), Margaret Gages Bogantz (also known as Margaret Gages) and Paul Gages, Jr.

VOL 403 PAGE 556

TO HAVE AND TO HOLD the said premises, with appurtenances thereto, unto the said Grantee(s), its/~~successors~~ ~~heirs~~ and assigns forever, so that neither the said Grantor(s) nor their heirs, nor any other person claiming title through or under them, shall or will hereafter claim or demand any right to title to said premises, or any part thereof; but they and every one of them shall, by these presents, be excluded and forever barred.

In Witness Whereof, this deed is executed by the said Grantor(s), this day of July, in the year of our Lord one thousand nine hundred and fifty-five.

Signed and acknowledged in presence of

Wanna Crawford
Edwina L. Matuck

Jack Matuck
Jack Matuck

Goldie Matuck
Goldie Matuck

STATE OF OHIO, Richland County, ss. } Before me, a Notary Public in and for said County, personally appeared the above named Jack Matuck and Goldie Matuck

who acknowledged that they did sign the foregoing instrument, and that the same is their voluntary act and deed.

In testimony whereof, I hereunto set my hand and official seal, at Mansfield, Ohio, this 8th day of July A. D. 1955.

S. Kraus.
Notary Public

STATE OF County, ss. } Before me, a in and for said County, personally appeared the above named

who acknowledged that did sign the foregoing instrument, and that the same is voluntary act and deed.

In testimony whereof, I hereunto set my hand and official seal, at this day of A. D. 19

71779

Quitclaim Deed

Jack Matuck
Goldie Matuck

TO

General Motors Corporation, etc.

Received for Record July 7 1955 at 9 o'clock A.M.
Recorded July 11 1955
in Richland County Records
Volume 403 Page 555-556
A. J. Crawford County Recorder
Recorder's Fee 1.50

McDermott & Associates
LAWYERS
Walpark Building
MANSFIELD, OHIO

VOL 403 PAGE 557

OHIO WARRANTY DEED No. 21. #71780 The W. H. Anderson Company, Publishers, Cincinnati, Ohio.

Know All Men by These Presents:

That Lee Gages and Ruth E. Gages, his wife; Jessie Ruth Harland (also known as Jessie Ruth Harlan) and Samuel Harlan, her husband; Vivian Gages, now Vivian Gages Martin, and E. Max Martin, her husband; Eleanor Gages Rinehart and Oliver Rinehart, her husband; Vera Gages Light (also known as Vera Gages) and Kenneth D. Light, her husband; Margaret Gages Bogantz (also known as Margaret Gages) and George Bogantz, her husband; Paul Gages, Jr. and Vivian Gages, his wife; Leone Gages, unmarried; Lee Gages as Executor and Trustee under the will of Paul Gages, deceased

in consideration of One Hundred Dollars and other valuable consideration

to them *paid by* General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan

~~who~~

the receipt whereof is hereby acknowledged, do hereby Grant, Bargain, Sell and Convey to the said General Motors Corporation, a Delaware corporation duly authorized to do business in the State of Ohio, having a principal office at 3044 West Grand Boulevard, Detroit 2, Michigan, its successors

~~heirs~~ *and assigns forever,*

the following described Real Estate,

Situated in the Township of Springfield, County of Richland, State of Ohio and known as the north half of the Northwest Quarter of Section 23, Township 21, Range 19, containing 80 acres, more or less, but subject to all legal highways.

RECEIVED FOR RECORD
July 9 1955
At 11:02 O'clock A. M
Recorded July 11 1955
IN RICHLAND COUNTY RECORDS
Volume 403 Page 557-558-559
D.D. Crawford
Richland County Recorder

2.10

and all the Estate, Title and Interest of the said grantors

either in Law or Equity, of, in and to the said premises; Together with all the privileges and appurtenances to the same belonging, and all the rents, issues and profits thereof; To have and to hold the same to the only proper use of the said grantee

its successors
~~xxxxx~~ and assigns forever.

And the said grantors

for themselves and their heirs, executors and administrators, do hereby Covenant with the said grantee, its successors

~~heirs~~ and assigns,

that they are the true and lawful owners of the said premises, and have full power to convey the same; and that the title so conveyed is Clear, Free and Unincumbered; And further, That they do Warrant and Will Defend the same against all claim or claims, of all persons whomsoever; except taxes and assessments for the first half of the year 1955 (known as the December, 1955 installment) and thereafter; except easement to Sinclair Refining Company (assigned to Sinclair Pipe Line Company) and recorded at Deed Volume 266, Page 53

VOL 403 PAGE 559

In Witness Whereof, *The said* grantors

who hereby release all their right and expectancy of Dower in the said premises, ha ve hereunto set their hand s this 8th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five.

Signed and acknowledged in presence of—

Bernice Wolf

Bernita Alfabar

Margaret Gages Bogantz

Lee Gages

Leone Gages

Jessie Ruth Harland

Ruth E. Gages

Vivian Gages Martin

E. Max Martin

Samuel Harlan

Eleanor Gages Rinehart

Oliver Rinehart

Vera Gages Light

Kenneth D. Light

George Bogantz

Paul Gages Jr.

Margaret Gages Bogantz

Lee Gages

as Executor and Trustee aforesaid

State of Ohio **County of** Richland **SS.**

Be it Remembered, That on the 9th *day of* July *in the year of our Lord one thousand nine hundred* fifty-five *before me, the subscriber, a* notary public *in and for said county, personally came* Lee Gages, Ruth E. Gages, Jessie Ruth Harland (also known as Jessie Ruth Harlan), Samuel Harlan, Vivian Gages, now Vivian Gages Martin, E. Max Martin, Eleanor Gages Rinehart, Oliver Rinehart, Vera Gages Light (also known as Vera Gages), Kenneth D. Light, Margaret Gages Bogantz (also known as Margaret Gages), George Bogantz, Paul Gages, Jr., Vivian Gages, Leone Gages, and Lee Gages as Executor and Trustee under the will of Paul Gages, deceased *the grantor s in the foregoing Deed, and acknowledged the signing thereof to be their voluntary act and deed.*

In Testimony Whereof, *I have hereunto subscribed my name and affixed my official seal on the day and year last aforesaid.*

Bernice Wolf Bernice Wolf

Notary public

Transferred: .....

Received: .....

Recorded: .....

Recorder's fee $..... D. D. Granville
Recorder

111 Include reference to volume and page of next preceding recorded instrument by or through which grantor claims title. (R.C. §31.28)

Prepared: Aug. 16, 1957 VOL 442 PAGE 439
Norman L. Wolfe, Co. Aud.
10¢ by

#95964

WARRANTY DEED

KNOW ALL MEN BY THESE PRESENTS, That ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA, a corporation organized and existing under the laws of the Commonwealth of Pennsylvania, duly authorized to do business in the State of Ohio, and having its principal office at Crawford County Trust Company Building, Meadville, Pennsylvania, GRANTOR, claiming title through Deed in Volume 404, Page 127, Volume 404, Page 129 and in Volume 404, Page 131 Richland County, Ohio, Records, in consideration of the sum of One Hundred Dollars ($100.00) and other good and valuable consideration, to it paid by GENERAL MOTORS CORPORATION, a Delaware corporation, duly authorized to do business in the State of Ohio and having a principal place of business at 3044 West Grand Boulevard, Detroit 2, Michigan, GRANTEE, the receipt whereof is hereby acknowledged, does hereby GRANT, BARGAIN, SELL AND CONVEY to the said GENERAL MOTORS CORPORATION, GRANTEE, its successors and assigns Forever, the following described Real Estate:

All that parcel of land located in the Township of Springfield, County of Richland, State of Ohio, and being a part of the Northwest Quarter of Section 23, Township 21, Range 19, and more particularly described as follows:

BEGINNING at a point on the West line of said Quarter Section, said point being 1330.13 feet, South 1 degree, 50 minutes, 06 seconds East of the Northwest corner of said Quarter Section;

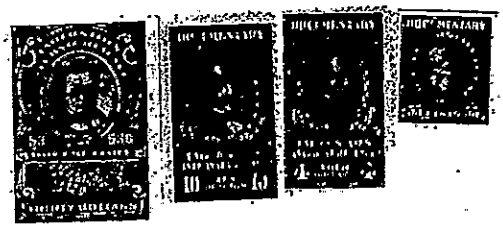
Thence North 89 degrees, 00 minutes, 44 seconds East, 2501.68 feet to the North Right-of-Way line of the Mansfield By-Pass, U.S. Route 30;

Thence South 62 degrees 37 minutes 24 seconds West and along said Right-of-Way line, 2772.35 feet to the West line of Section 23;

Thence North 1 degree, 50 minutes, 06 seconds West along said West line of

NW¼ Sec 23-Twp 21-R19-35.38a

VOL 442 PAGE 441



Revenue Stamps
Affixed $444.95

fifty-seven (1957).

Signed and Acknowledged in the Presence of Us:

ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA

ERIE LAND IMPROVEMENT COMPANY OF PENNSYLVANIA

D. Halter

By W. T. Pierson
Vice President

L. E. Baker

Attest: R. H. Hann
Secretary

STATE OF OHIO)
) ss.
COUNTY OF CUYAHOGA)

BE IT REMEMBERED, That on this 14th day of August, in the year of our Lord one thousand nine hundred and fifty-seven (1957), before me, the subscriber, a Notary Public in and for said County and State, personally appeared W. T. PIERSON, Vice President, and R.H.HANN, Secretary, of ERIE LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA, the corporation whose name is subscribed to and which executed the foregoing instrument, and for themselves and as such officers respectively, and for and on behalf of said corporation, acknowledged the signing and execution of said instrument; and acknowledged that the seal affixed to said instrument is the corporate seal of said corporation, that they affixed such corporate seal to, and otherwise executed, said instrument, by authority of the Board of Directors; and on behalf of said corporation; and that the signing and execution of said instrument is their free and voluntary act and deed, their free act and deed as such officers respectively, and the free and voluntary act and deed of said corporation, for the uses and purposes in said instrument mentioned.

IN TESTIMONY WHEREOF, I have hereunto subscribed

my name and affixed my Notarial Seal, on the day and year last aforesaid.

Notary Public, Cuyahoga County, Ohio.

My Commission Expires : VANSTAN LFF NOTARY PUBLIC My Commission Expires Sept. 2, 19[illegible]

This Instrument Prepared by:
F. D. Halter
Attorney-At-Law
Cleveland, Ohio

95964

RECEIVED FOR RECORD
Aug. 16, 1957
At 10:15A.M. o'clock
Recorded Aug. 19, 1957
IN RICHLAND COUNTY RECORDS
Volume 442, Page 439-440-441-442
D.D. Crawford
Richland County Recorder
2.80

Mail to —
Nancy M Hogan
General Counsel
General Motors Corp
30 E 42nd Street Bldg
Detroit 2 Mich

6Dic | VICINITY MAP

6Dii | NORTH ARROW & SCALE

5Ciii | SURVEYOR OBSERVED POSSIBLE ENCROACHMENTS

(A) FENCE ENCROACHMENT ON THE EASTERLY PROPERTY LINE OF NO MORE THAN 0.5'.
(B) ALONG N'LY PROPERTY LINE (ELY SIDE) – 2 UTILITY RISERS OUT OF EASEMENT
(C) UTILITY POLE NEAR EAST PROPERTY LINE – ENCROACHES 2.3' INTO PROPERTY.

3 | FLOOD INFORMATION

BY GRAPHIC PLOTTING ONLY, THIS PROPERTY LIES WITHIN ZONE "X", AS SHOWN ON FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL NO. 39139C0140E), WHICH BEARS AN EFFECTIVE DATE OF 04/04/2011, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. NO FIELD SURVEYING WAS PERFORMED TO DETERMINE THIS ZONE. ZONE "X" DENOTES AREA OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD.

5Ciii | SURVEYOR OBSERVED POSSIBLE ENCROACHMENTS

(D) UTILITY POLE NEAR EAST PROPERTY LINE, AT GATE TO GRAVEL DRIVE – ENCROACHES 2.7' INTO PROPERTY; GUY WIRE ANCHOR TO SAID UTILITY POLE ENCROACHES 9.2' INTO PROPERTY.
(E) GATE AT SELLY PROPERTY LINE (AT TRAIN TRACKS) ENCROACHES ON ADJOINING PROPERTY 21.5' SOUTHERLY.
(F) TR NEAR N'LY BOUNDARY, APPROXIMATELY 465' (SCALED) FROM NORTH EDGE OF STUMBO RD – ENCROACHES 0.5' INTO PROPERTY.
(G) ALONG WEST BOUNDARY – RIP-RAP ENCROACHES RIGHT-OF-WAY BY 5.0'+/-; TELEPHONE MANHOLE NEAR TR IS OUT OF THE EASEMENT BY 73.9' S'LY.
(H) ALONG WEST BOUNDARY – CONCRETE END SECTIONS TO STORM DRAINAGE ENCROACH INTO RIGHT-OF-WAY BY 2.1' TO 13.7' AS SHOWN.

6Dii | LEGEND & ABBREVIATIONS

SQ.FT.	SQUARE FEET
CONC	CONCRETE SURFACE
NP	NO PARKING
PPS	PAID PARKING SPACE
CO	CLEAN OUT
EP	ELECTRIC PANEL
RSP	RAILROAD SIGNAL POLE
DIC	DROP INLET CEMENT CONNECTION
SPA	SIGNAL PROCESS LID
UC	UTILITY CABINET
GTM	GATE MOTOR
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PS	TELEPHONE RISER
NO. OF PARKING SPACES	

TRANSFORMER	
GUARDRAIL	
WELL	
CHAIN LINK FENCE	
MANHOLE	
SANITARY MANHOLE	
STORM MANHOLE	
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
OR	OFFICIAL RECORDS
	FOUND MONUMENT
	SET 5/48" X 30" IRON ROD CAPPED "ASM"
	WATER VALVE
	UTILITY POLE
	GUY ANCHOR
	LIGHT POLE
	BOLLARD
	OVERHEAD UTILITY LINE
	FENCE

6Di | LEGEND & ABBREVIATIONS

SQ.FT.	SQUARE FEET
CONC	CONCRETE SURFACE
NP	NO PARKING
PPS	PAID PARKING SPACE
CO	CLEAN OUT
EP	ELECTRIC PANEL
RSP	RAILROAD SIGNAL POLE
DIC	DROP INLET CEMENT CONNECTION
SPA	SIGNAL PROCESS LID
UC	UTILITY CABINET
GTM	GATE MOTOR
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
PS	TELEPHONE RISER
NO. OF PARKING SPACES	

TRANSFORMER	
GUARDRAIL	
WELL	
CHAIN LINK FENCE	
MANHOLE	
SANITARY MANHOLE	
STORM MANHOLE	
P.O.B.	POINT OF BEGINNING
P.O.C.	POINT OF COMMENCEMENT
OR	OFFICIAL RECORDS
	FOUND MONUMENT
	SET 5/48" X 30" IRON ROD CAPPED "ASM"
	WATER VALVE
	UTILITY POLE
	GUY ANCHOR
	LIGHT POLE
	BOLLARD
	OVERHEAD UTILITY LINE
	FENCE

22 | ZONING INFORMATION

ITEM	REQUIRED	OBSERVED
PERMITTED USE	GI	INDUSTRY
MINIMUM LOT AREA (SQ.FT.)	NONE	11,545,666
MINIMUM FRONTAGE	–	12,742'
MINIMUM LOT WIDTH	NONE	19%
MAX BUILDING HEIGHT	NONE	34.7'
MINIMUM SETBACKS		
FRONT	50'	234.3'
SIDE	20'	–
REAR	50'	–
PARKING REQUIREMENTS	1 SPACE FOR EACH EMPLOYEE ON THE LARGEST SHIFT PLUS 1 FOR EACH 1,000 SQ.FT. OF GROSS FLOOR AREA.	

ZONING INFORMATION SHOWN HEREON WAS NOT PROVIDED BY INSURED. INFORMATION WAS OBTAINED BY ASM, INC. CONTACT: VILLAGE OF ONTARIO PLANNING & ZONING DEPARTMENT DATE CONTACTED: 11/29/11 NOTES: GI: GENERAL INDUSTRIAL WWW.CMANAGREENE.COM

6Dvi | ALTA/ACSM LAND TITLE SURVEY

2

OF

2525 WEST 4TH STREET

MANSFIELD OHIO

6Bx | TITLE INFORMATION

THE FOLLOWING TITLE INFORMATION WAS HEREON ARE FROM:
TITLE SOURCE, INC. – ORDER (COMMITMENT) NO. 56563996 WITH AN EFFECTIVE DATE OF AUGUST 16, 2012 AT 8:00 AM.

6Bi | TITLE DESCRIPTION

TAX ID NUMBER(S): 038-60-152-02-000, 038-60-152-03-000, 038-60-152-04-000, 038-60-152-05-000, 038-60-152-06-000.

LAND SITUATED IN THE TOWNSHIP OF SPRINGFIELD IN THE COUNTY OF RICHLAND IN THE STATE OF OHIO, AND KNOWN AS BEING IN THE SOUTHEAST QUARTER AND THE SOUTHWEST QUARTER OF SECTION 14 AND THE NORTHEAST QUARTER AND THE NORTHWEST QUARTER OF SECTION 23, TOWNSHIP 21 SOUTH, RANGE 19 WEST, CONGRESS LANDS, AND BEING THAT DESCRIBED AS THE GENERAL WARRANTY DEED FROM THE FIDELITY NATIONAL TITLE INSURANCE COMPANY TO CORPORATION FOR PROPERTY IN THE FIDELITY NATIONAL TITLE INSURANCE COMPANY COMMITMENT NO. 11093158, WITH AN EFFECTIVE DATE OF DECEMBER 21, 2010 AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE POINT OF INTERSECTION BETWEEN THE NORTH LINE OF SECTION 23, TOWNSHIP 21, RANGE 19 AND THE CENTERLINE OF BEER ROAD (TOWNSHIP HIGHWAY NO. 160); THENCE RUN SOUTH 01 DEGREES 09 MINUTES 52 SECONDS WEST ALONG SAID RIGHT OF WAY LINE 412.13 FEET TO A FOUND 5/8 INCH IRON ROD WITH NO IDENTIFYING CAP MARKING THE POINT OF INTERSECTION BETWEEN THE WEST LINE OF LAND NOW OR FORMERLY OWNED BY THE VILLAGE OF ONTARIO AS DESCRIBED IN THAT CERTAIN QUIT CLAIM DEED RECORDED IN VOLUME 848, PAGES 463 THROUGH 465, INCLUSIVE, OF THE PUBLIC RECORDS OF RICHLAND COUNTY, OHIO; THENCE RUN SOUTH 88 DEGREES 54 MINUTES 10 SECONDS WEST ALONG SAID POINT SITUATED SOUTH 00 DEGREES 46 MINUTES 51 SECONDS EAST 410.86 FEET FROM THE NORTHWEST CORNER OF THE NORTHEAST ONE QUARTER OF SAID SECTION 23; THENCE CONTINUE ALONG AFORESAID NORTHERLY BOUNDARY LINE OF LAND AND IMPROVEMENT COMPANY OF PENNSYLVANIA AS DESCRIBED IN WARRANTY DEED RECORDED IN VOLUME 442, PAGES 436 THROUGH 438 INCLUSIVE, SOUTH 88 DEGREES 54 MINUTES 38 SECONDS EAST ALONG THE SAID ERIE TRACT OF LAND; THENCE RUN SOUTH 21 DEGREES 38 MINUTES 38 SECONDS EAST ALONG THE WESTERLY BOUNDARY LINE OF SAID TRACT 832.27 FEET A SET 5/8 INCH IRON ROD WITH ASM CAP ON SAID RIGHT OF WAY LINE OF SOUTH 62 DEGREES 37 MINUTES 24 SECONDS WEST 2143.59 TO A SET 5/8 INCH IRON ROD WITH ASM CAP MARKING A POINT ON A CURVE CONCAVE NORTHEASTERLY HAVING A RADIUS OF 1392.39 FEET; THENCE RUN ALONG SAID CURVE AN ARC OF SAID CURVE 271.29 FEET THROUGH A CENTRAL ANGLE OF 43 DEGREES 09 MINUTES 32 SECONDS AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF NORTH 61 DEGREES 04 MINUTES 53 SECONDS WEST 264.92 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP MARKING A POINT OF TANGENCY ON SAID RIGHT OF WAY LINE THROUGH THE FOLLOWING SIX COURSES: THENCE NORTH 39 DEGREES 30 MINUTES 21 SECONDS WEST 287.30 FEET; THENCE RUN NORTHERLY ALONG THE ARC OF SAID CURVE 290.56 FEET TO A POINT MARKED BY A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE NORTH 01 DEGREES 46 MINUTES 19 SECONDS EAST A CHORD BEARING AND DISTANCE OF NORTH 24 DEGREES 37 MINUTES 10 SECONDS WEST 287.30 FEET; THENCE RUN NORTHERLY ALONG THE ARC OF SAID CURVE 290.56 FEET TO A POINT MARKED BY A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE NORTH 01 DEGREES 46 MINUTES 19 SECONDS EAST 135.70 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE RUN NORTH 02 DEGREES 46 MINUTES 41 SECONDS EAST 2118.05 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP AT THE POINT OF CURVATURE OF A CURVE CONCAVE EASTERLY HAVING A RADIUS OF 1392.39 FEET; THENCE RUN NORTHERLY ALONG THE ARC OF SAID CURVE 135.75 FEET TO A POINT MARKED BY A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE RUN NORTH 35 DEGREES 11 MINUTES 36 SECONDS EAST A DISTANCE OF 1641.12 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE RUN NORTH 54 DEGREES 48 MINUTES 24 SECONDS WEST 40.00 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP AT THE POINT OF INTERSECTION OF THE WEST 4TH STREET CRESTLINE MANSFIELD ROAD (STATE ROUTE 30); THENCE RUN ALONG SAID SOUTHERLY RIGHT OF WAY LINE THE FOLLOWING TWO COURSES: THENCE SOUTH 79 DEGREES 08 MINUTES 08 SECONDS EAST 400.00 FEET A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE SOUTH 79 DEGREES 08 MINUTES 08 SECONDS EAST 1748.29 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP AT THE POINT OF A TRACT FOR STORM DRAINAGE; THENCE RUN ALONG THE BOUNDARIES OF SAID DRAINAGE TRACT THE FOLLOWING THREE COURSES: THENCE SOUTH 25 DEGREES WEST 67.47 FEET A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE SOUTH 65 DEGREES EAST 20.00 FEET A SET 5/8 INCH IRON ROD WITH ASM CAP; THENCE NORTH 25 DEGREES EAST 72.51 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP ON THE AFOREMENTIONED SOUTHERLY RIGHT OF WAY LINE OF WEST 4TH STREET; THENCE RUN ALONG SAID RIGHT OF WAY LINE THE FOLLOWING THREE COURSES: THENCE SOUTH 79 DEGREES 08 MINUTES 08 SECONDS EAST 1748.29 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP AT THE POINT OF CURVATURE OF A CURVE CONCAVE NORTHERLY HAVING A RADIUS OF 5737.5 FEET; A CENTRAL ANGLE OF 02 DEGREES 32 MINUTES 54 SECONDS AND BEING SUBTENDED BY A CHORD BEARING AND DISTANCE OF SOUTH 77 DEGREES 52 MINUTES 06 SECONDS EAST 263.12 FEET; THENCE RUN EASTERLY ALONG THE ARC OF SAID CURVE 263.12 FEET TO A SET 5/8 INCH IRON ROD WITH ASM CAP ON THE AFOREMENTIONED WEST RIGHT OF WAY LINE OF STUMBO ROAD; THENCE RUN ALONG SAID WEST RIGHT OF WAY LINE THE FOLLOWING TWO COURSES: THENCE SOUTH 01 DEGREES 09 MINUTES 52 SECONDS WEST 2.51 FEET TO THE IRON ROD WITH ASM CAP; THENCE SOUTH 01 DEGREES 09 MINUTES 52 SECONDS WEST 1645.27 FEET TO THE POINT OF BEGINNING, CONTAINING THEREIN 265.052 ACRES MORE OR LESS, OF WHICH 27.234 ACRES MORE OR LESS LIES IN THE SOUTHWEST QUARTER OF SECTION 14, 6.581 ACRES MORE OR LESS LIES IN THE NORTHEAST QUARTER OF SECTION 23, 104.973 ACRES MORE OR LESS LIES IN THE NORTHWEST QUARTER OF SECTION 23, 126.264 ACRES MORE OR LESS LIES IN THE NORTHEAST QUARTER OF SECTION 23, SUBJECT TO ALL LEGAL HIGHWAYS, EASEMENTS AND RIGHTS-OF-WAY OF RECORD AND RECORDS IN THEIR RESPECTIVE UTILITY OFFICES.

THIS DESCRIPTION IS BASED ON AN ACTUAL FIELD SURVEY COMPLETED DECEMBER 06, 2011 AND IN ACCORDANCE WITH THE OHIO ADMINISTRATIVE CODE 4733-37. BASIS OF BEARINGS IS THE NORTHERLY LINE OF THE VILLAGE OF ONTARIO TRACT, AS SOUTH 88 DEGREES 54 MINUTES 10 SECONDS WEST, AS PER DEED VOLUME 848, PAGE 463 THROUGH 465 AND IS FOR ANGULAR PURPOSES ONLY.

SHEET 1 OF 5

5Ciii | SURVEYOR OBSERVED POSSIBLE ENCROACHMENTS

(D) UTILITY POLE NEAR EAST PROPERTY LINE, AT GATE TO GRAVEL DRIVE – ENCROACHES 2.7' INTO PROPERTY; GUY WIRE ANCHOR TO SAID UTILITY POLE ENCROACHES 9.2' INTO PROPERTY.
(E) GATE AT SELLY PROPERTY LINE (AT TRAIN TRACKS) ENCROACHES ON ADJOINING PROPERTY 21.5' SOUTHERLY.
(F) TR NEAR N'LY BOUNDARY, APPROXIMATELY 465' (SCALED) FROM NORTH EDGE OF STUMBO RD – ENCROACHES 0.5' INTO PROPERTY.
(G) ALONG WEST BOUNDARY – RIP-RAP ENCROACHES RIGHT-OF-WAY BY 5.0'+/-; TELEPHONE MANHOLE NEAR TR IS OUT OF THE EASEMENT BY 73.9' S'LY.
(H) ALONG WEST BOUNDARY – CONCRETE END SECTIONS TO STORM DRAINAGE ENCROACH INTO RIGHT-OF-WAY BY 2.1' TO 13.7' AS SHOWN.

ALTA/ACSM LAND TITLE SURVEY IDENTIFICATION TABLE

2	"TABLE A" PROPERTY ADDRESS	6Bvii	CONTIGUITY STATEMENT
3	"TABLE A" FLOOD INFORMATION	6Bx	TITLE INFORMATION
4	"TABLE A" LAND AREA	6Bi	TITLE DESCRIPTION
5Biii	ACCESS TO PROPERTY	6Biv	BEARING BASIS
5Ciii	SURVEYOR OBSERVED POSSIBLE ENCROACHMENT	6Bv	NORTH ARROW & SCALE
5Ei	CEMETERY NOTE	6Bvi	LEGEND & ABBREVIATIONS
6Bii	RECORDED SETBACKS/RESTRICTIONS PROVIDED BY INSURED	6Dvi	SURVEYOR'S CERTIFICATE

6Bvii	"TABLE A" BUILDING AREA	7Bi	"TABLE A" BUILDING HEIGHT
7Ci	"TABLE A" BUILDING HEIGHT	8	SURVEYOR'S NOTES
8	SURVEYOR'S NOTES	9	"TABLE A" PARKING SPACES
9	"TABLE A" PARKING SPACES	13	"TABLE A" ADJOINING OWNERS
13	"TABLE A" ADJOINING OWNERS	14	"TABLE A" INTERSECTING STREET
14	"TABLE A" INTERSECTING STREET	16	"TABLE A" EARTH MOVING NOTE
16	"TABLE A" EARTH MOVING NOTE	18	"TABLE A" DUMP, SUMP OR LANDFILL NOTE
18	"TABLE A" DUMP, SUMP OR LANDFILL NOTE	22	"TABLE A" ZONING INFORMATION

5Ei | SCHEDULE "B" ITEMS

(13) – RIGHT OF WAY TO THE LOGAN NATURAL GAS AND FUEL COMPANY FILED FOR RECORD APRIL 26, 1906, IN LEASE VOLUME 4, PAGE 392 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER OIL, GAS AND TELEPHONE LINES)

(14) – RIGHT OF WAY TO THE LOGAN NATURAL GAS AND FUEL COMPANY FILED FOR RECORD APRIL 26, 1906, IN LEASE VOLUME 4, PAGE 392 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER OIL, GAS AND TELEPHONE LINES)

(15) – OIL AND GAS LEASE BY AND BETWEEN NANCY WERT AND B.N. WERT (LESSOR) AND THE LOGAN NATURAL GAS AND FUEL COMPANY (LESSEE), FILED FOR RECORD AUGUST 19, 1912 IN LEASE VOLUME 9, PAGE 222 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE)

(16) – OIL AND GAS LEASE BY AND BETWEEN SIMON BEER, SR. (LESSOR) AND C.N. SIMPSON (LESSEE), FILED FOR RECORD MAY 18, 1905, IN LEASE VOLUME 3, PAGE 365 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE)

(17) – OIL AND GAS LEASE BY AND BETWEEN NANCY WERT AND BRADEN N. WERT (LESSOR) AND A.H. HESEY & CO. (LESSEE), FILED FOR RECORD MARCH 9, 1910, IN LEASE VOLUME 5, PAGE 500 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE)

(18) – EASEMENT TO THE OHIO POWER COMPANY, FILED FOR RECORD APRIL 16, 1920, IN LEASE VOLUME 11, PAGE 407 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER ELECTRIC, TELEGRAPH AND TELEPHONE LINES)

(19) – EASEMENT TO THE OHIO POWER COMPANY, FILED FOR RECORD APRIL 16, 1920, IN LEASE VOLUME 11, PAGE 407 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER ELECTRIC, TELEGRAPH AND TELEPHONE LINES)

(20) – RESERVATIONS, RESTRICTIONS, COVENANTS, LIMITATIONS, EASEMENTS, RECORD CONDITIONS AND STIPULATIONS CONTAINED IN THE DEED RECORDED JANUARY 9, 1946, IN DEED VOLUME 285, PAGE 57, OF THE RICHLAND COUNTY RECORDS.

(21) – OIL AND GAS LEASE BY AND BETWEEN NANCY WERT AND BRADEN WERT (LESSOR) AND THE LOGAN NATURAL GAS & FUEL COMPANY (LESSEE), FILED FOR RECORD AUGUST 19, 1912 IN LEASE VOLUME 9, PAGE 136 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE)

(22) – OIL AND GAS LEASE BY AND BETWEEN SIMON BEER AND KATHARINA BEER (LESSOR) AND WESLEY SHEARER (LESSEE), FILED FOR RECORD AUGUST 24, 1905, IN LEASE VOLUME 3, PAGE 354 OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE)

(23) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD JULY 24, 1930, IN DEED VOLUME 196, PAGE 373 OF THE RICHLAND COUNTY RECORDS. (EASEMENT AND RIGHT OF WAY FOR ROAD PURPOSES. UNABLE TO PLOT MENTIONED PLANS NOT PROVIDED)

(24) – EASEMENT TO THE OHIO PUBLIC SERVICE COMPANY, FILED FOR RECORD SEPTEMBER 2, 1936, IN DEED VOLUME 215, PAGE 306, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER 30" N'LY FOR TRANSMISSIONS LINES)

(25) – EASEMENT TO THE MARION RESERVE POWER COMPANY, FILED FOR RECORD SEPTEMBER 11, 1941, IN DEED VOLUME 240, PAGE 98 OF THE RICHLAND COUNTY RECORDS. (EASEMENT FOR ONE POLE AND GUY, UNABLE TO PLOT SPECIFIC LOCATIONS OF MENTIONED POLE AND GUY UNKNOWN)

(26) – EASEMENT TO THE MARION RESERVE POWER COMPANY, FILED FOR RECORD JANUARY 9, 1946, IN DEED VOLUME 266, PAGE 53, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER PETROLEUM, GAS AND WATER PIPELINES AND OTHER UTILITY LINES OR APPURTENANCES)

(27) – RIGHT-OF-WAY TO SINCLAIR REFINING COMPANY, FILED FOR RECORD JANUARY 9, 1946, IN DEED VOLUME 266, PAGE 53, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER PETROLEUM, GAS AND WATER PIPELINES AND OTHER UTILITY LINES OR APPURTENANCES)

(28) – RIGHT-OF-WAY TO SINCLAIR REFINING COMPANY, FILED FOR RECORD JANUARY 9, 1946, IN DEED VOLUME 266, PAGE 55, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER PETROLEUM, GAS AND WATER PIPELINES AND OTHER UTILITY LINES OR APPURTENANCES)

(29) – RIGHT-OF-WAY TO SINCLAIR REFINING COMPANY, FILED FOR RECORD JANUARY 9, 1946, IN DEED VOLUME 266, PAGE 57, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER PETROLEUM, GAS AND WATER PIPELINES AND OTHER UTILITY LINES OR APPURTENANCES)

(30) – EASEMENT TO OHIO EDISON COMPANY, FILED FOR RECORD SEPTEMBER 28, 1951, IN DEED VOLUME 347, PAGE 309, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER ELECTRIC LINES)

(31) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD NOVEMBER 28, 1951, IN DEED VOLUME 347, PAGE 309, OF THE RICHLAND COUNTY RECORDS. (UNABLE TO PLOT, NEED COPY OF SURVEY NUMBER NOT IN BOOK 17, PAGE 109) APPEARS TO BE ADDITIONAL WORKING AREA ON THE NORTHEAST QUADRANT OF INTERSECTION OF US 30 AND STUMBO ROAD.)

(32) – EASEMENT TO OHIO EDISON COMPANY, FILED FOR RECORD APRIL 2, 1952, IN DEED VOLUME 352, PAGE 25, OF THE RICHLAND COUNTY RECORDS. (BLANKET IN NATURE OVER ELECTRIC LINES)

(33) – APPROPRIATION OF AN EASEMENT FOR HIGHWAY PURPOSES BY THE STATE OF OHIO, FILED FOR RECORD APRIL 4, 1953 RECORDED IN DEED VOLUME 367, PAGE 428, OF THE RICHLAND COUNTY RECORDS. (UNABLE TO PLOT – LOCATION OF STATIONING UNKNOWN)

(34) – AGREEMENT BY AND BETWEEN ERIE RAILROAD COMPANY AND ERIE LAND AND IMPROVEMENT COMPANY FOR RIGHT OF WAY ACROSS LANDS IN MANSFIELD, OHIO, FILED FOR RECORD MAY 21, 1956 IN DEED VOLUME 421, PAGE 144, OF THE RICHLAND COUNTY RECORDS. (EASEMENT FOR WATER LINE. UNABLE TO DETERMINE LOCATION OF WATER LINE FROM DOCUMENT PROVIDED)

(35) – EASEMENT FOR SANITARY SEWER LINE TO THE COUNTY OF RICHLAND, FILED FOR RECORD IN VOLUME 1330, PAGE 1 OF THE RICHLAND COUNTY RECORDS. (APPROXIMATE LOCATION SHOWN)

6B | RECORDED SETBACKS/RESTRICTIONS

NONE PROVIDED TO THIS SURVEYOR

5Ei | SCHEDULE "B" ITEMS – CONTINUED

(36) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD JANUARY 29, 1957, IN DEED VOLUME 433, PAGE 517, OF THE RICHLAND COUNTY RECORDS. (UNABLE TO PLOT – LOCATION OF STATIONING UNKNOWN)

(37) – RIGHT-OF-WAY TO SINCLAIR PIPELINE COMPANY, FILED FOR RECORD SEPTEMBER 15, 1958, IN DEED VOLUME 458, PAGE 457 OF THE RICHLAND COUNTY RECORDS. (SHOWN)

(38) – VACATION OF BEER ROAD AND GAGE ROAD, FOR WHICH A FINAL HEARING WAS HELD ON JULY 20, 1960, APPEARING IN COMMISSIONER'S VOLUME 1, PAGE 1, AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 7(b)(1), 7(c)(1), 8, 9, 10(a), 10(b), 11(a), 13, 14, 16, 17, 18, 19 AND 20. THE FIELD WORK WAS COMPLETED ON 12/06/11. DATE OF PLAT OR MAP: 12/08/11. (DOCUMENT NOT PROVIDED) (UNABLE TO PLOT)

(39) – 16.5' TELEPHONE EASEMENT PER VOLUME 276, PAGE 481 (SHOWN)

(40) – MEMORANDUM OF LEASE, BOOK 1352, PAGE 436; (NOTHING TO PLOT)

(41) – MEMORANDUM OF LEASE, BOOK 890, PAGE 646; (NOTHING TO PLOT)

(42) – CABLE EASEMENT FROM RACER PROPERTIES, LLC TO UNITED TELEPHONE COMPANY OF OHIO, FILED FOR RECORD JUNE 21, 2012 IN OR BOOK 2142, PAGE 398, OF THE RICHLAND COUNTY RECORDS. (SHOWN)

(43) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD DECEMBER 16, 1993, IN OFFICIAL RECORD VOLUME 276, PAGE 481, OF THE RICHLAND COUNTY RECORDS. (AS SHOWN)

5Ei | SCHEDULE "B" ITEMS – CONTINUED

(36) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD JANUARY 29, 1957, IN DEED VOLUME 433, PAGE 517, OF THE RICHLAND COUNTY RECORDS. (UNABLE TO PLOT – LOCATION OF STATIONING UNKNOWN)

(37) – RIGHT-OF-WAY TO SINCLAIR PIPELINE COMPANY, FILED FOR RECORD SEPTEMBER 15, 1958, IN DEED VOLUME 458, PAGE 457 OF THE RICHLAND COUNTY RECORDS. (SHOWN)

(38) – VACATION OF BEER ROAD AND GAGE ROAD, FOR WHICH A FINAL HEARING WAS HELD ON JULY 20, 1960, APPEARING IN COMMISSIONER'S VOLUME 1, PAGE 1, AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 7(b)(1), 7(c)(1), 8, 9, 10(a), 10(b), 11(a), 13, 14, 16, 17, 18, 19 AND 20. THE FIELD WORK WAS COMPLETED ON 12/06/11. DATE OF PLAT OR MAP: 12/08/11. (DOCUMENT NOT PROVIDED) (UNABLE TO PLOT)

(39) – 16.5' TELEPHONE EASEMENT PER VOLUME 276, PAGE 481 (SHOWN)

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(41) – MEMORANDUM OF LEASE, BOOK 890, PAGE 646; (NOTHING TO PLOT)

(42) – CABLE EASEMENT FROM RACER PROPERTIES, LLC TO UNITED TELEPHONE COMPANY OF OHIO, FILED FOR RECORD JUNE 21, 2012 IN OR BOOK 2142, PAGE 398, OF THE RICHLAND COUNTY RECORDS. (SHOWN)

(43) – EASEMENT FOR HIGHWAY PURPOSES TO THE STATE OF OHIO, FILED FOR RECORD DECEMBER 16, 1993, IN OFFICIAL RECORD VOLUME 276, PAGE 481, OF THE RICHLAND COUNTY RECORDS. (AS SHOWN)

7 | SURVEYOR'S CERTIFICATE

TO: TITLE SOURCE, INC. ;

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2011 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 7(a), 7(b)(1), 7(c)(1), 8, 9, 10(a), 10(b), 11(a), 13, 14, 16, 17, 18, 19 AND 20. THE FIELD WORK WAS COMPLETED ON 12/06/11. DATE OF PLAT OR MAP: 12/08/11.

REGISTERED SURVEYOR: STEVEN J. HYDE
PROFESSIONAL LAND SURVEYOR NO.: P-7529
DATE
PROJECT NO.: 1112803

SURVEY PREPARED BY:
AMERICAN SURVEYING & MAPPING, INC.
3191 MAGUIRE BLVD., SUITE 200
ORLANDO, FLORIDA 32803
PHONE: (407) 426-7979
FAX: (407) 426-9741

6Bvii | CONTIGUITY STATEMENT

THE PARCELS CONTAINED IN THE LEGAL DESCRIPTION ARE CONTIGUOUS WITHOUT ANY GAPS, GORES OR OVERLAPS

5Biii | ACCESS TO PROPERTY

THE SUBJECT PROPERTY HAS DIRECT PHYSICAL ACCESS TO BEER ROAD, WEST 4TH STREET AND STUMBO ROAD, BEING DEDICATED PUBLIC STREETS OR HIGHWAYS.

16 | EARTH MOVING NOTE

NO OBSERVABLE EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS WITHIN RECENT MONTHS.

18 | DUMP, SUMP OR LANDFILL NOTE

NO OBSERVABLE EVIDENCE OF SITE USE AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL.

6Bviii | BEARING BASIS

BEARINGS SHOWN HEREON ARE BASED ON THE SOUTHEASTERLY PROPERTY LINE, BEING S89°54'10"E PER TITLE DESCRIPTION

5F | CEMETERY NOTE

NO VISIBLE EVIDENCE OF CEMETERIES ON SUBJECT PROPERTY.

9 | PARKING SPACES

SEE PARKING NOTE REGULAR=2550 HANDICAP=35

PARKING NOTE:

PARKING STRIPES ARE VERY FADED OR NOT EXISTENT. PARKING STRIPES SHOWN HEREON ARE BASED ON A COMBINATION OF FIELD LOCATION, AERIAL PHOTO AND PROVIDED SITE PLAN.

DATE	REVISIONS
1/5/2012	REVISED
2/27/2012	BOUNDARY REVISED
3/07/2012	COUNTY COMMENTS
10/15/12	PER UPDATED TITLE POLICY;

SCALE: 1" = 180'
DRAWN BY: UB
APPROVED BY: DH PT(10/15/12)
DRAWING FILE NAME: 1112803-25W 4TH ST, MANSFIELD, OH.DWG

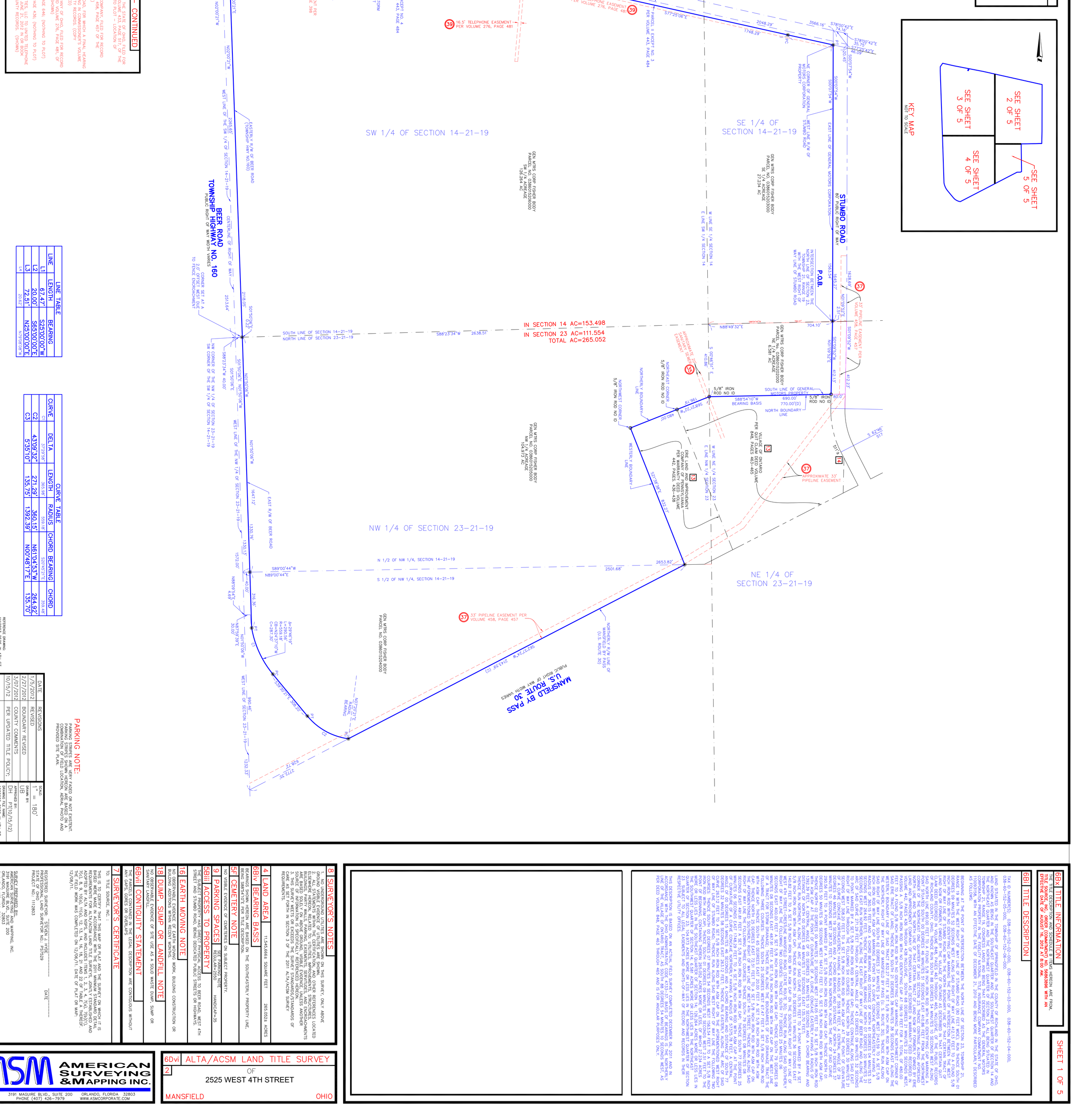
REFERENCE DRAWING: 1112803-25W 4TH ST, MANSFIELD, OH.DWG

LINE TABLE

LINE	LENGTH	BEARING
L1	67.47'	S25°00'00"W
L2	20.00'	S65°00'00"E
L3	72.51'	N25°00'00"E
L4	20.62'	N79°08'08"W

CURVE TABLE

CURVE	DELTA	LENGTH	RADIUS	CHORD BEARING	CHORD
C1	37°29'58"	365.98'	559.18'	S20°45'21"E	359.48'
C2	43°09'32"	271.29'	360.15'	N61°04'53"W	264.92'
C3	5°35'10"	135.75'	1392.39'	N00°48'17"E	135.70'


WEST 4TH STREET
CRESTLINE–MANSFIELD ROAD
U.S. ROUTE 30 NORTH
PUBLIC RIGHT OF WAY WIDTH VARIES
LESS LEGAL RIGHT OF WAY
CENTERLINE OF RIGHT OF WAY
SOUTH RIGHT OF WAY LINE
SOUTHERLY R/W LINE OF WEST 4th STREET (STATE ROUTE 30)
16.5' CABLE EASEMENT PER OR BOOK 2142, PAGE 398
16.5' TELEPHONE EASEMEN

6Di NORTH ARROW & SCALE

1" = 60'
GRAPHIC SCALE
0 30 60 120

WEST 4TH STREET
CRESTLINE-MANSFIELD ROAD
U.S. ROUTE 30 NORTH
PUBLIC RIGHT OF WAY WIDTH VARIES

ASPHALT ROADWAY
S77°25'06"E
16.5' TELEPHONE EASEMENT PER VOLUME 276, PAGE 481
39
6'CLF
82.0'
42.9' TYP.
50' BUILDING SETBACK
ACCESS
12"RCP
HEADWALL
GATE
1748.29'
15"CMP
6"UC
Δ=01°15'46"
L=263.12'
R=5737.5.78'
CB=S77°32'58"E
C=263.12'
370.0'
CONCRETE PAVEMENT
24.1'
14.0'X14.1' GAS METER BUILDING
GUARDRAIL
WALL
ELECTRIC CONDUIT
54.5'
98.0'
22.0'
149.7'
COVERED
7b ONE STORY SWITCH HOUSE AREA=2,156 SQ.FT.
7b ONE STORY SWITCH HOUSE AREA=2,970 SQ.FT.
WINGWALL
GRAVEL AREA
CONCRETE CURB
FENCE
FDC W/GR
CO
7b ONE STORY PRESS PERP BUILDING AREA=45,221 SQ.FT.
302.1'
644.2'
SUBSTATION
OHU
ELECTRIC TOWER
907.34'
OVERHEAD UTILITY LINES WITH METAL SUPPORTS
20.0'X20.0' FIRE PUMP HOUSE
WATER TOWER
17.6'X22.2' WATER STORAGE BOILER HOUSE
TANK
COOLING TOWERS CATWALK
38.5'
26.9'
FUEL TANK
STANKS TYPICAL
161.0'
82.7'
ONE STORY POWER HOUSE AREA=21,633 SQ.FT.
7b
55.7'
103.9' STAIRS
LOADING DOCK WALL
TRENCH DRAIN
97.1'
97.7'
SCRAP CONVEYOR
CONVEYOR
20.0'X21.2' AERATION BLOWER BUILDING
STORAGE TANKS
19.6'
10.0'
26.0'
9.9'
14.7'X21.7' AERATION BLOWER BUILDING
GRAVEL AREA
A/C
88.7'
44.1'
7b ONE STORY COMPRESSOR BUILDING HEIGHT=26.0' AREA=9,295 SQ.FT.
32.5'
141.2'
55.1'
OVERHANG
EQUIPMENT BUILDING
OVERHEAD COMPRESSED AIR PIPES
468.0'
1563.54'
S00°07'54"W
STUMBO ROAD
80' PUBLIC RIGHT OF WAY
ASPHALT ROADWAY
ASPHALT PAVEMENT
30' BUILDING SETBACK
6'CLF
ACCESS
12"CMP
2.3'
C
CONCRETE PAVEMENT
GATE
RSP
GTM
45°RCP
19.5'X9.7' ONE STORY GUARD HOUSE AREA=189 SQ.FT.
1020.42'
S88°54'45"W
784.07'
S01°09'52"W
412.13'
RAILROAD SPURS (TYPICAL)
RIPRAP
SCALE
SCALE READOUT
GRAVEL ROAD
CELL TOWER
UTILITY BUILDING
GRAVEL
DITCH
CONCRETE CURB
FDC
PIV
RSP
A/C
WALL
FENCE
DRAIN
CONCRETE PAVEMENT
GRAVEL AREA
42.4'
367.6'
42.5'
420.0'
108.1'
30.5'
79.8'
120.9'
200.2'
61.0'
22.8'
5.2'
17.7'
436.60'
SEE SHEET 3 OF 5
SEE SHEET 4 OF 5
SEE SHEET 5 OF 5
7c ONE STORY BUILDING HEIGHT=34.7' AREA=2,075,853 SQ.FT.
50' BUILDING SETBACK
20' BUILDING SETBACK
TEMPORARY SANITARY SAMPLING STATION
S68°21'22"W
480.00'
690.00'
S88°54'10"W
0.7' NORTH
0.8' NORTH 9.8' WEST
SIGNAL LIGHT
APPROXIMATE 20' SANITARY SEWER EASEMENT
20.0'
21.5'
7.5'
6.2'
E
D

DATE	REVISIONS
1/5/2012	REVISED
2/21/2012	BOUNDARY REVISED
3/07/2012	COUNTY COMMENTS
10/15/12	PER UPDATED TITLE POLICY;

SCALE: 1" = 60'
DRAWN BY: DH
APPROVED BY: UB
DRAWING FILE NAME: PT(10/15/12)
REFERENCE DRAWING: T:\PROJECTS\2525 W 4TH ST, MANSFIELD, OH\.DWG

ASM AMERICAN SURVEYING & MAPPING INC.
1030 N. ORLANDO AVE, SUITE B WINTER PARK, FLORIDA 32789
PHONE (407) 426-7979 WWW.ASMCORPORATE.COM

6Dvi ALTA/ACSM LAND TITLE SURVEY
2 OF
2525 WEST 4TH STREET
MANSFIELD OHIO

SHEET 2 OF 5

6Dii NORTH ARROW & SCALE

1" = 60'
GRAPHIC SCALE
0 30 60 120

WEST 4TH STREET
CRESTLINE-MANSFIELD ROAD
U.S. ROUTE 30 NORTH
PUBLIC RIGHT OF WAY WIDTH VARIES

ASPHALT ROADWAY

S77°25'06"E 400.00'

16.5' WIDE CABLE EASEMENT PER OR BOOK 2142, PAGE 398

50' BUILDING SETBACK

S79°08'08"E 487.91'

GUARDRAIL

ACCESS

S79°08'08"E 491.81'

TELEPHONE MANHOLE

16.5' TELEPHONE EASEMENT PER VOLUME 276, PAGE 481

N35°11'36"E 140.82'

C3

N02°00'21"W 2118.05'

20' BUILDING SETBACK

ASPHALT PAVEMENT

CONCRETE PAVEMENT

CONCRETE CURB

GATE

6'CLF

TR

RIPRAP

GUARDRAIL

HEADWALL

30"CP

42"CP

48"CP

ACCESS

8.0'X9.8' ONE STORY GUARD HOUSE AREA=78 SQ.FT.

7b

ONE STORY BUILDING HEIGHT=34.7' AREA=2,075,653 SQ.FT.

7a 7h

ONE STORY RACK WASH BUILDING HEIGHT=21.8' AREA=5,792 SQ.FT.

7c

FLAGPOLE

OVERHANG

ENTRANCE

1127.2'

765.01'

149.2'

338.6'

666.5'

479.46'

479.34'

174.2'

174.3'

103.3'

GRAVEL AREA

STORAGE AREA CONCRETE PAVEMENT

COVERED

LIFTS

STAIRS

LOADING DOCK

SPILL CONTAINMENT AREA

GAS BOILER HOUSE

RAMP

GUARDRAIL

0.5' CONCRETE CURB

FENCE IS 0.5' WEST

10'CLF

SEE SHEET 2 OF 5

SEE SHEET 4 OF 5

SHEET 3 OF 5

REFERENCE DRAWING:
TITLE: ALTA/ACSM LAND TITLE SURVEY
2525 W 4TH ST.
MANSFIELD, OH. DWG

	DATE	REVISIONS
	1/5/2012	REVISED
	2/27/2012	BOUNDARY REVISED
	3/07/2012	COUNTY COMMENTS
	10/15/12	PER UPDATED TITLE POLICY;

SCALE: 1" = 60'
DRAWN BY: UB
APPROVED BY: DH PT(10/15/12)
DRAWING FILE NAME:
TITLE: ALTA/ACSM LAND TITLE SURVEY
2525 W 4TH ST.
MANSFIELD, OH. DWG

AMERICAN SURVEYING & MAPPING INC.
1030 N. ORLANDO AVE, SUITE B WINTER PARK, FLORIDA 32789
PHONE (407) 426-7979 WWW.ASMCORPORATE.COM

6Dvi ALTA/ACSM LAND TITLE SURVEY
2 OF
2525 WEST 4TH STREET
MANSFIELD OHIO

TOWNSHIP HIGHWAY NO. 160
BEER ROAD
PUBLIC RIGHT OF WAY WIDTH VARIES

6Dio NORTH ARROW & SCALE

1" = 60' GRAPHIC SCALE 0 30 60 120

SEE SHEET 3 OF 5

SEE SHEET 2 OF 5

SEE SHEET 5 OF 5

STORAGE AREA CONCRETE PAVEMENT

STORAGE AREA CONCRETE PAVEMENT

0.5' CONCRETE CURB

ASPHALT ROADWAY

FENCE IS 0.5' WEST

ETBACK

20' BUILDING SETBACK

FENCE IS 1.2' EAST

N0°15'01"W 1330.76'

1647.12'

316.36'

CONCRETE PAVEMENT

RSP

RSP

GUARDRAIL

117.6'

STAIRS

COVERED LOADING DOCK

GUARDRAIL

89.6'

LOADING DOCK

STAIRS

122.4'

SPILL CONTAINMENT AREA

89.1'

STAIRS

COVERED LOADING DOCK

FDC

oMW

UA

UA

UA

CO

119.9'

GUARDRAIL

FDC

GUARDRAIL

82.9'

oCO

0.9'

239.9'

39.5'

119.8'

23.9'

43.2'

24.0'

98.7'

22.9'

61.0'

5.2'

200

oFDC

CONCRETE PAVEMENT

GUARDRAIL

GUARDRAIL

CONCRETE PAVEMENT

WINGWALL

WINGWALL

DITCH

DITCH

DIRT ROADWAY

RAILROAD SPURS (TYPICAL)

GATE

DITCH

DITCH

DITCH

DITCH

DITCH

DITCH

DITCH

DITCH

DITCH

NW 1/4 OF SECTION 23-21-19

N 1/2 OF NW 1/4, SECTION 14-21-19

S 1/2 OF NW 1/4, SECTION 14-21-19

50' BUILDING SETBACK

ASPHALT ROADWAY

LAGOON

TOWNSHIP BEER ROAD
PUBLIC RIGHT OF WAY WIDTH VARIES
HIGHWAY NO. 160

N39°30'21"W 39.2'

308.20'

HEADWALL

Δ=29°46'19"
L=290.56'
R=559.18'
CB=N24°37'10"W
C=287.30'

Δ=43°09'32"
L=271.29'
R=360.15'
CB=N61°04'53"W
C=264.92'

ASPHALT ROADWAY

PUBLIC RIGHT OF WAY WIDTH VARIES
MANSFIELD BY PASS
U.S. ROUTE 30

S62°37'24"W
2143.63'(D)
2143.59'(C)

50' BUILDING SETBACK

37' PIPELINE EASEMENT PER VOLUME 458, PAGE 457

57

0.5'E

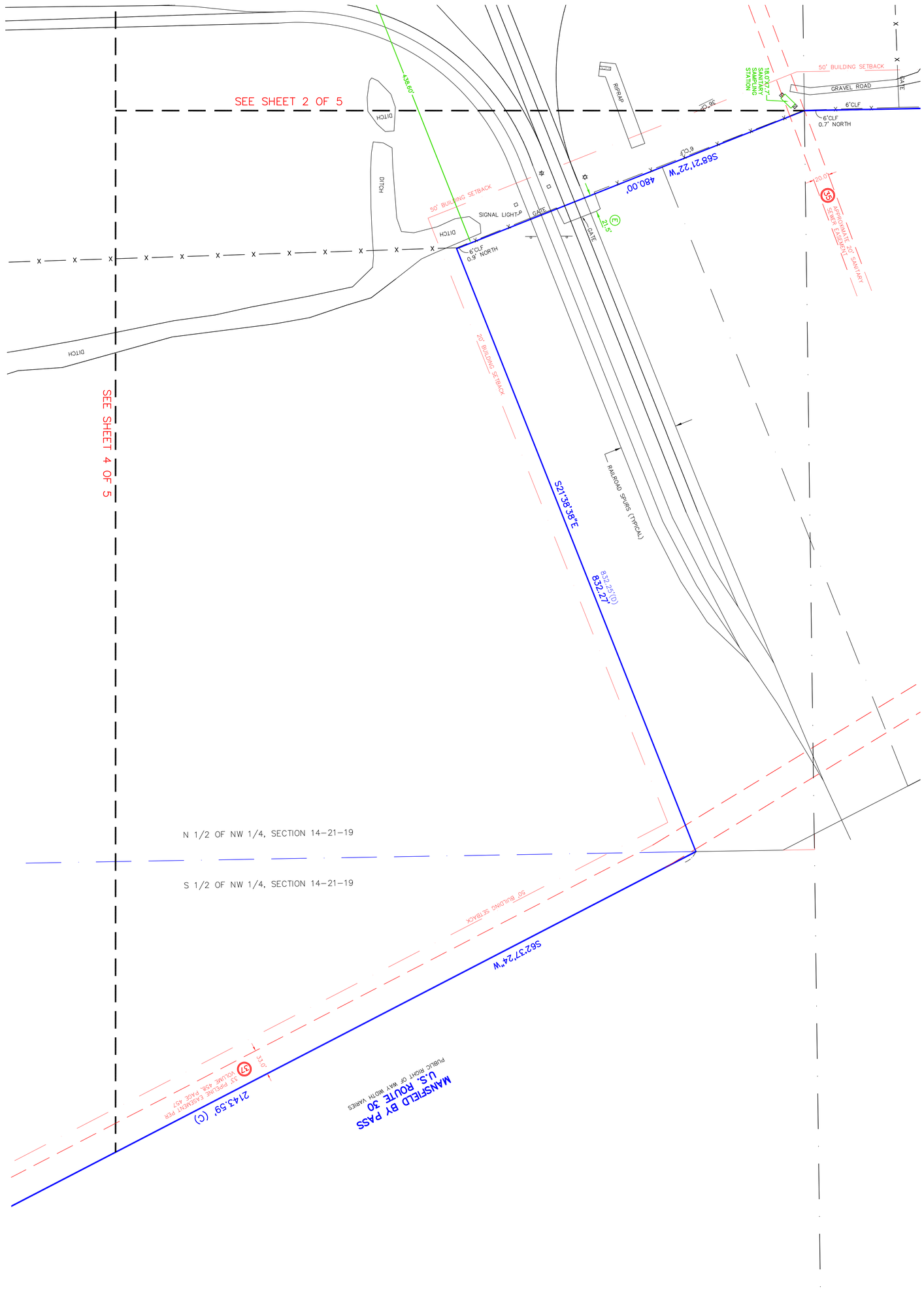
DATE	REVISIONS
1/5/2012	REVISED
2/27/2012	BOUNDARY REVISED
3/07/2012	COUNTY COMMENTS
10/15/12	PER UPDATED TITLE POLICY;

SCALE: 1" = 60'
DRAWN BY: UB
APPROVED BY: DH PT(10/15/12)
DRAWING FILE NAME: T:\2009\09-0253\W 4TH ST. MANSFIELD, OH.DWG

REFERENCE DRAWING: T:\2009\09-0253\W 4TH ST. MANSFIELD, OH.DWG

AMERICAN SURVEYING & MAPPING INC.
1030 N. ORLANDO AVE, SUITE B WINTER PARK, FLORIDA 32789
PHONE (407) 426-7979 WWW.ASMCORPORATE.COM

6Dvi ALTA/ACSM LAND TITLE SURVEY
2 OF
2525 WEST 4TH STREET
MANSFIELD OHIO



6Di GRAPHIC SCALE 0 30 60 120 1" = 60'

6Di NORTH ARROW & SCALE

REFERENCE DRAWING:
T:\2012\12-0001 2525 W 4TH ST, MANSFIELD, OH\DWG\

DATE	REVISIONS
1/5/2012	REVISED
2/27/2012	BOUNDARY REVISED
3/07/2012	COUNTY COMMENTS
10/15/12	PER UPDATED TITLE POLICY;

SCALE: 1" = 60'
DRAWN BY: UB
APPROVED BY: DH PT(10/15/12)
DRAWING FILE NAME: T:\2012\12-0001 2525 W 4TH ST, MANSFIELD, OH\ DWG

AMERICAN SURVEYING &MAPPING INC.
1030 N. ORLANDO AVE, SUITE B WINTER PARK, FLORIDA 32789
PHONE (407) 426-7979 WWW.ASMCORPORATE.COM

6Dvi ALTA/ACSM LAND TITLE SURVEY
2 OF
2525 WEST 4TH STREET
MANSFIELD OHIO

Appendix F

Hydraulic Testing Information

WELL ID: MW-5-2D Recovery Test

Local ID: MW-5-2D
Date: 4/4/2001
Time: 0:17

INPUT

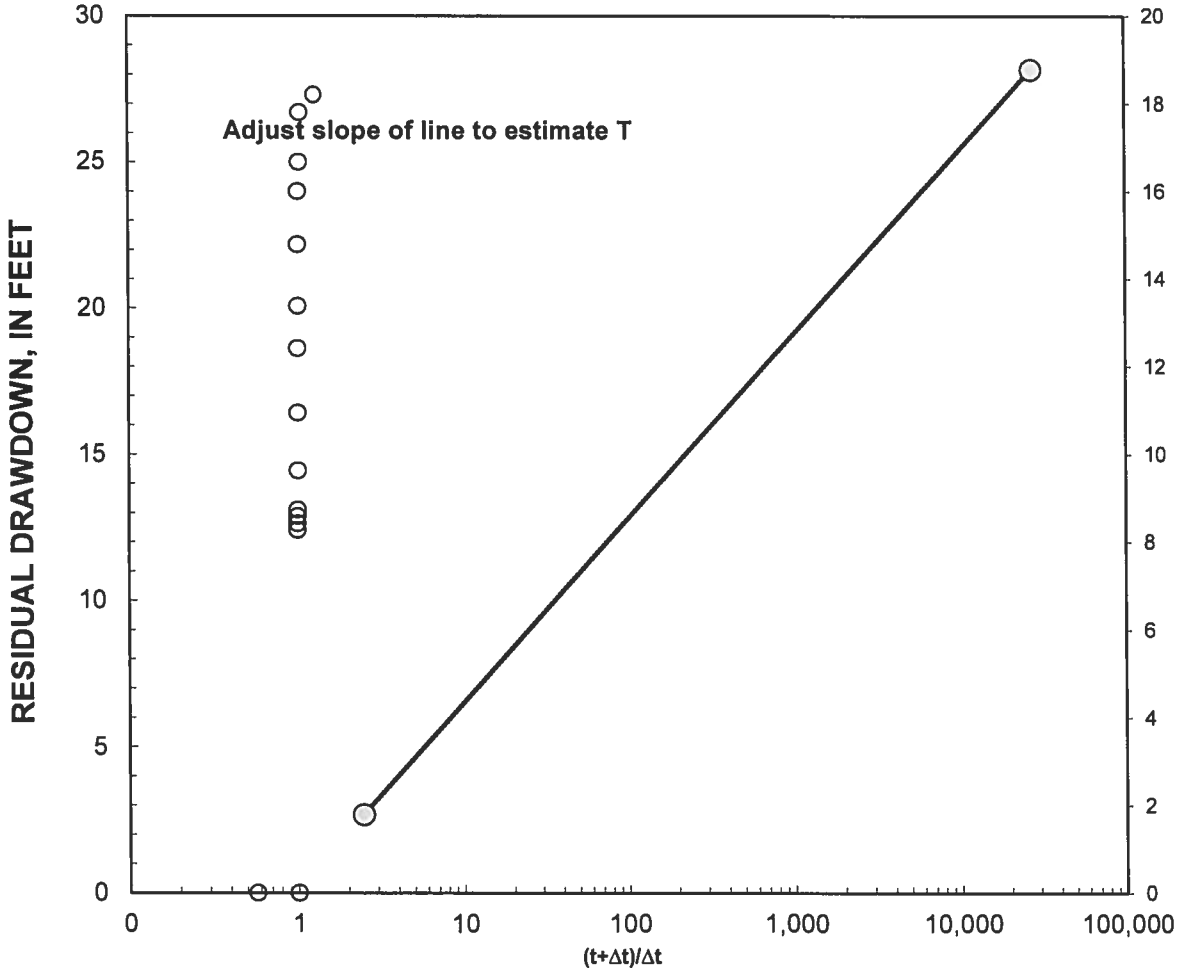
Construction:	
Casing dia. (d_c)	2 Inch
Annulus dia. (d_w)	6 Inch
Screen Length (L)	10 Feet
Depths to:	
water level (DTW)	12.33 Feet
Top of Aquifer	11 Feet
Base of Aquifer	13 Feet
Annular Fill:	
across screen -- Fine Sand	
above screen -- Bentonite	
Aquifer Material -- Till	
FLOW RATE	0.5 GPM

COMPUTED

Aquifer thickness = 0.7 Feet

Slope = 4.205446 Feet/log10

K = 0.02 Feet/Day
T = 0.02 Feet²/Day



REMARKS: Cooper-Jacob recovery analysis of single-well aquifer test

MW-5-2-D Recovery Test Data

Reduced Data

Entry	Time, Date Hr:Min:Sec	Water Level Feet
1	1/0/00 0:17:09	0.00
2	1/0/00 0:30:00	28.05
3	1/0/00 1:16:00	27.30
4	1/0/00 5:20:00	26.70
5	1/0/00 7:08:00	25.00
6	1/0/00 9:58:00	24.00
7	1/0/00 15:43:00	22.18
8	1/0/00 19:01:00	20.07
9	1/0/00 22:10:00	18.62
10	1/1/00 6:30:00	16.42
11	1/1/00 9:10:00	14.45
12	1/2/00 21:05:00	13.11

Mansfield Yield Test Results

Yield = gallons removed/duration of event

Specific Yield = Yield/drawdown

	Total Gallons Pumped	Duration	Yield		Specific Yield	
MW47	50.16	60 mins	0.836	0.836 gpm yield	3.0096	gpm/ft
MW52-D	13	12.51	1.039169	1.03 gpm yield	16.3461	gpm/ft
MW52-S	70	240	0.291667	0.3 gpm yield	3.705	gpm/ft

Appendix G

VAP Laboratory Analytical Tables and Data Packages

ANALYTICAL TABLE G-1
SUMMARY OF PAHS IN IA-4 SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-4-11		IA-4-11		IA-4-12		IA-4-12		IA-4-13		IA-4-13		IA-4-14		IA-4-14		IA-4-15		IA-4-15		IA-4-16		IA-4-16		IA-4-17		IA-4-17		IA-4-18		IA-4-18		IA-4-19		IA-4-19		IA-4-20		IA-4-20	
Sample ID			SB1		SB1		SB2		SB2		SB3		SB3		SB4		SB4		SB5		SB5		SB6		SB6		SB7		SB7		SB8		SB8		SB9		SB9		SB10		SB10	
Depth (feet)			0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'	
Sample Date			12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/5/2011	
Sample Time			1120		1120		1130		1130		1145		1145		1300		1300		1315		1315		1320		1320		1330		1330		1345		1345		1400		1400		1415		1415	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-4 Former Waste Water Treatment Plant																																						
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																									
Acenaphthene	780,000	90,000	0.21100		0.00338		26.9		0.00344		0.89700		1.24000		0.74600		0.05650		0.20600		0.00671		0.31000		0.00272	U	21.40000		0.01540		13.70000		0.48900		0.62900		0.00266	U	0.04570		0.00270	U
Acenaphthylene	780,000	90,000	0.01540		0.00264	U	0.78100		0.00270	U	0.03880		0.01720		0.02660		0.00150	J	0.00896	J	0.00269	U	0.00573	J	0.00272	U	0.66300		0.00273	U	0.36100		0.02110		0.02120		0.00266	U	0.00372		0.00270	U
Anthracene	1,000,000	450,000	0.69300		0.01220		51.7		0.01200		1.98000		4.33000		1.63000		0.16500		0.72000		0.02510		0.86900		0.00327		46.00000		0.04740		32.00000		1.29000		1.69000		0.00282		0.18100		0.01640	
Benzo(a)anthracene	1,200	58	1.65000		0.03050		121.0		0.03170		7.95000		8.59000		5.88000		0.48800		1.64000		0.05670		2.14000		0.00745		108.0		0.11200		62.10000		3.61000		4.74000		0.00742		0.48700		0.00234	J
Benzo(a)pyrene	120	5.8	1.39000		0.02590		93.2		0.02690		6.43000		6.89000		4.76000		0.36900		1.34000		0.04410		1.68000		0.00584		87.1		0.08990		46.70000		2.41000		3.84000		0.00552		0.38500		0.00270	U
Benzo(b)fluoranthene	1,200	58	1.38000		0.02540		100.0		0.02770		6.25000		6.13000		4.92000		0.36700		1.29000		0.03990		1.42000		0.00863		89.2		0.09320		49.00000		2.38000		3.99000		0.00735		0.37700		0.00270	U
Benzo(ghi)perylene	390,000	45,000	1.02000		0.01770		57.7		0.01880		3.26000		3.29000		2.17000		0.21300		0.79800		0.02820		0.93400		0.00592		52.70000		0.05570		27.40000		1.30000		2.00000		0.00485		0.21600		0.00543	
Benzo(k)fluoranthene	12,000	580	1.22000		0.02410		82.4		0.02560		6.74000		6.56000		4.64000		0.30800		1.22000		0.04340		1.15000		0.00502		79.80000		0.08560		43.40000		2.34000		2.33000		0.00562		0.33600		0.00270	U
Chrysene	120,000	5,800	1.47000		0.03040		111.0		0.03400		7.52000		7.27000		5.56000		0.41700		1.51000		0.05280		2.02000		0.01330		102		0.10700		58.70000		3.48000		4.44000		0.00952		0.43100		0.00736	
Dibenz(a,h)anthracene	120	5.8	0.34000		0.00534		20.9		0.00566		1.09000		1.50000		0.81300		0.07840		0.27800		0.00858		0.33600		0.00138	J	19.0		0.01860		7.98000		0.50000		0.72600		0.00176	J	0.07780		0.00270	U
Fluoranthene	160,000	60,000	2.98000		0.05950		234.0		0.07480		17.00000		15.30000		12.80000		1.08000		4.26000		0.11200		4.92000		0.02000		312		0.24800		134		8.60000		10.90000		0.01750		1.13000		0.00538	
Fluorene	520,000	60,000	0.25200		0.00316		23.1		0.00327		0.82800		1.22000		0.78800		0.05450		0.25900		0.00728		0.45000		0.00272	U	18.30000		0.01530		11.20000		0.59600		0.73800		0.00266	U	0.05800		0.00270	U
Indeno(1,2,3-cd)pyrene	1,200	58	0.99300		0.01590		59.4		0.01640		3.47000		3.56000		2.25000		0.22100		0.79900		0.02500		0.91800		0.01690		54.70000		0.05400		28.20000		1.40000		2.04000		0.00362		0.22400		0.00270	U
1-Methylnaphthalene	31,000	1,500	0.03040		0.00498		3.65		0.00205	J	0.16000		0.09180		0.26100		0.00693		0.07950		0.00619		0.06560		0.00272	U	2.76000		0.00435		2.05000		0.13100		0.12200		0.00266	U	0.06900		0.00498	
2-Methylnaphthalene	5,200	6,000	0.03090		0.00621		4.88		0.00250	J	0.18200		0.13000		0.33000		0.00697		0.10100		0.00512		0.08800		0.00142	J	3.50000		0.00590		2.84000		0.18000		0.16000		0.00266	U	0.08790		0.00437	
Naphthalene	560	450	0.02760		0.00458		4.45		0.00142	J	0.13400		0.23200		0.24000		0.00761		0.07040		0.00293		0.06590		0.00272	U	3.12000		0.00481		2.85000		0.15300		0.19600		0.00266	U	0.05510		0.00270	U
Phenanthrene	1,000,000	450,000	2.17000		0.03790		216		0.04980		12.00000		12.20000		9.55000		0.65600		2.54000		0.08060		4.46000		0.01550		236		0.18200		123		6.97000		8.87000		0.01140		0.77700		0.01690	
Pyrene	390,000	45,000	2.56000		0.04960		197		0.05860		13.70000		12.40000		10.10000		0.84700		2.56000		0.09040		3.84000		0.01350		242		0.19100		107		6.61000		8.61000		0.01360		0.89400		0.00609	

Notes:
U = indicates analyte not detected at indicated reporting limit (RL)
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
Highlighted values exceed one or more screening level concentrations

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August 2014)

ANALYTICAL TABLE G-1 (CONTINUED)
SUMMARY OF PAHS IN IA-4 SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-4-21		IA-4-21		IA-4-22		IA-4-22		IA-4-23		IA-4-23		IA-4-24		IA-4-24		IA-4-25		IA-4-25		IA-4-26		IA-4-26		IA-4-27		IA-4-27		IA-4-28		IA-4-28		IA-4-29		IA-4-29		IA-4-30		IA-4-30		DUPLICATE		DUPLICATE	
Sample ID			SB11		SB11		SB12		SB12		SB13		SB13		SB14		SB14		SB15		SB15		SB16		SB16		SB17		SB17		SB18		SB18		SB19		SB19		SB20		SB20		DUP 1		DUP 2	
Depth (feet)			0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		0'-2'		0'-2'	
Sample Date			12/5/2011		12/5/2011		12/5/2011		12/5/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011		12/6/2011				12/6/2011	
Sample Time			1430		1430		1440		1440		925		925		935		935		950		950		1010		1010		1030		1030		1100		1100		1110		1110		1125		1125				--	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-4 Former Waste Water Treatment Plant																																									
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																													
Acenaphthene	780,000	90,000	0.05500		0.04060		0.12100		0.00161	J	0.24400		0.00298		0.01290		0.00293	U	1.20000		0.00175	J	0.03170		0.00314	U	0.06670		0.00280	J	0.00917		0.00302	U	0.57800		0.00196	J	5.46000		0.00252	J	0.04760		0.00484	
Acenaphthylene	780,000	90,000	0.00795	J	0.00170	J	0.00781		0.00276	U	0.01560		0.00288	U	0.00215	J	0.00293	U	0.05710		0.00313	U	0.00154	J	0.00314	U	0.00779		0.00161	J	0.00308	U	0.00302	U	0.02960		0.00316	U	0.24200		0.00290	U	0.00154	J	0.00313	J
Anthracene	1,000,000	450,000	0.24100		0.13200		0.28200		0.00276	U	0.57800		0.00772		0.03840		0.00214	J	2.39000		0.00450		0.07720		0.00314	U	0.22700		0.00446		0.04660		0.00302	U	1.17000		0.02090		10.20000		0.00405		0.13100		0.00847	
Benzo(a)anthracene	1,200	58	0.78800		0.23300		1.03000		0.00334		2.16000		0.02120		0.14700		0.00300		8.41000		0.00928		0.27600		0.00374		0.83100		0.00703		0.12600		0.00249	J	3.98000		0.00292	J	37.90000		0.01130		0.34600		0.00708	
Benzo(a)pyrene	120	5.8	0.68300		0.17400		0.86400		0.00276	U	1.85000		0.01700		0.12400		0.00218		7.26000		0.00750		0.22400		0.00277	J	0.75600		0.00685		0.11000		0.00154	J	3.29000		0.00236	J	31.70000		0.00981		0.27900		0.00589	
Benzo(b)fluoranthene	1,200	58	0.74500		0.17200		0.87300		0.00276	U	1.98000		0.01970		0.12800		0.00293	U	7.47000		0.00973		0.21300		0.00415		0.80400		0.00866		0.11100		0.00352		3.48000		0.00316	U	33.50000		0.01340		0.26500		0.00848	
Benzo(ghi)perylene	390,000	45,000	0.40500		0.09720		0.34800		0.00901		0.80100		0.01180		0.06760		0.00373		3.45000		0.00662		0.14200		0.00398		0.48500		0.00900		0.07340		0.00251	J	1.59000		0.00677		18.90000		0.01500		0.16300		0.00727	
Benzo(k)fluoranthene	12,000	580	0.64500		0.15600		0.82900		0.00276	U	1.74000		0.01440		0.11900		0.00293	U	4.89000		0.00669		0.21900		0.00262	J	0.68200		0.00641		0.11000		0.00560	J	3.35000		0.00316	U	30.10000		0.00732		0.24500		0.00654	
Chrysene	120,000	5,800	0.78200		0.20700		1.02000		0.00998		2.09000		0.02290		0.14300		0.00703		8.51000		0.01250		0.26000		0.00533		0.78400		0.01160		0.12400		0.00740		3.93000		0.00888		36.70000		0.01920		0.30000		0.01030	
Dibenz(a,h)anthracene	120	5.8	0.13900		0.04380		0.13400		0.00276	U	0.30500		0.00471		0.02280		0.00293	U	1.32000		0.00260	J	0.04540		0.00314	U	0.16300		0.00316		0.02300		0.00302	U	0.61000		0.00316	U	5.76000		0.00333		0.05550		0.00232	J
Fluoranthene	160,000	60,000	1.61000		0.47800		2.37000		0.00844		4.91000		0.04110		0.27400		0.00966		19.70000		0.02000		0.52600		0.00706		1.99000		0.01410		0.26800		0.00439		9.92000		0.01000		82.80000		0.03030		0.77400		0.01440	
Fluorene	520,000	60,000	0.07360		0.04530		0.13500		0.00276	U	0.23600		0.00215	J	0.01600		0.00293	U	1.12000		0.00313	U	0.03240		0.00314	U	0.06610		0.00305	J	0.01260		0.00302	U	0.57400		0.00316	U	4.61000		0.00290	U	0.05060		0.00640	
Indeno(1,2,3-cd)pyrene	1,200	58	0.40800		0.09790		0.37600		0.00171	J	0.85900		0.00917		0.06790		0.00293	U	3.68000		0.02330		0.13200		0.00213	J	0.48500		0.00515		0.06930		0.00302	U	1.68000		0.00174	J	19.10000		0.00649		0.16100		0.00474	
1-Methylnaphthalene	31,000	1,500	0.02390		0.00568		0.13000		0.01770		0.08790		0.00978		0.02600		0.00276		0.23200		0.00253	J	0.00967		0.00406		0.01910		0.00487		0.00557		0.00302	U	0.12200		0.00646		0.92200		0.01420		0.00849		0.00597	
2-Methylnaphthalene	5,200	6,000	0.02800		0.00606		0.17600		0.01630		0.11400		0.01130		0.03440		0.00287		0.26100		0.00278	J	0.01040		0.00337		0.02320		0.00526		0.00543		0.00302	U	0.15200		0.00548		1.02000		0.01100		0.00767		0.00595	
Naphthalene	560	450	0.01790		0.00453		0.12200		0.00276	U	0.08600		0.00450		0.02190		0.00175		0.18600		0.00406		0.00619		0.00314	U	0.01890		0.00365		0.00258	J	0.00302	U	0.13600		0.00315	J	0.73600		0.00517		0.00963		0.00421	
Phenanthrene	1,000,000	450,000	0.96400		0.42100		1.85000		0.03550		3.46000		0.03590		0.17300		0.01750		14.00000		0.02140		0.36400		0.00891		0.93500		0.01680		0.17300		0.00588		8.30000		0.02160		58.50000		0.04320		0.46800		0.01660	
Pyrene	390,000	45,000	1.29000		0.37300		1.82000		0.01020		3.88000		0.03410		0.22300		0.00955		15.40000		0.01830		0.44800		0.00609		1.55000		0.01330		0.21200		0.00301	J	7.39000		0.00892		66.50000		0.02780		0.49700		0.01220	

Notes:
U = indicates analyte not detected at indicated reporting limit (RL)
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
Highlighted values exceed one or more screening level concentrations

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August 2014)

ANALYTICAL TABLE G-1 (CONTINUED)
SUMMARY OF PAHS IN IA-4 SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-4-31		IA-4-31		IA-4-32		IA-4-32		IA-4-33		IA-4-33		IA-4-34		IA-4-34		IA-4-35		IA-4-35		IA-4-36		IA-4-36		IA-4-37		IA-4-37		IA-4-38		IA-4-38		DUPLICATE	
Sample ID			SB21		SB21		SB22		SB22		SB23		SB23		SB24		SB24		SB25		SB25		SB26		SB26		SB27		SB27		SB28		SB28		DUP 1 (SB26)	
Depth (feet)			0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'		2'-4'		0'-2'	
Sample Date			11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012		11/8/2012	
Sample Time			1038		1038		1044		1044		1055		1055		1059		1059		1102		1102		1106		1106		1111		1111		1114		1114		1106	
	Ohio VAP DC Construction/Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-4 Former Waste Water Treatment Plant																																	
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																				
2-Methylnaphthalene	5,200	6,000	5.7		0.0510		0.0840		0.0710	U	0.0730	U	0.0290	U	0.0920		0.0080		0.0440		0.0210		0.0420		0.1200		0.0880	U	0.0290	U	0.0410		0.0490		0.0140	
Acenaphthene	780,000	90,000	34.0		0.0730		0.2900		0.3200		0.3600		0.0540		0.1400		0.0075	U	0.1300		0.0660		0.1200		0.9900		0.5000		0.0290	U	0.0480		0.0190	U	0.0260	
Acenaphthylene	780,000	90,000	1.8	U	0.0072	U	0.0520	U	0.0710	U	0.0730	U	0.0290	U	0.0290	U	0.0075	U	0.0300	U	0.0072	U	0.0290	U	0.0720	U	0.0940		0.0290	U	0.0140	U	0.0190	U	0.0073	U
Anthracene	1,000,000	450,000	62.0		0.1300		0.6900		1.0000		0.9000		0.1300		0.3300		0.0160		0.3000		0.1500		0.2800		1.9000		1.3000		0.0290	U	0.1100		0.0310		0.0630	
Benzo[a]anthracene	1,200	58	200.0		0.3300		4.1000		3.6000		5.4000		0.4600		0.7400		0.0440		1.3000		0.5600		1.1000		3.2000		7.3000		0.0740		0.6000		0.0790		0.1900	
Benzo[a]pyrene	120	5.8	160.0		0.2500		4.0000		4.3000		5.5000		0.4500		0.6300		0.0360		1.2000		0.4400		1.2000		2.4000		7.8000		0.0750		0.5400		0.0780		0.1500	
Benzo[g,h,i]perylene	390,000	45,000	78.0		0.1500		2.7000		2.5000		3.4000		0.2200		0.2800		0.0270		0.6800		0.2900		0.5700		1.3000		5.0000		0.0430		0.3600		0.0440		0.1000	
Benzo[k]fluoranthene	12,000	580.0	74.0		0.1800		2.9000		1.6000		3.9000		0.2600		0.3200		0.0240		0.7500		0.1800		0.5100		1.7000		4.1000		0.0630		0.4200		0.0300		0.0690	
Chrysene	120,000	5,800	230.0		0.3300		4.0000		4.8000		5.2000		0.5800		0.8000		0.0500		1.4000		0.6000		1.4000		3.1000		8.0000		0.1100		0.6500		0.1100		0.2100	
Dibenz(a,h)anthracene	120	5.8	15.0		0.0430		0.6900		0.7300		0.8300		0.0290	U	0.0290	U	0.0075	U	0.1800		0.0770		0.2100		0.3900		1.2000		0.0290	U	0.0890		0.0190	U	0.0250	
Fluoranthene	160,000	60,000	360.0		0.7000		8.1000		8.3000		11.0000		1.2000		1.7000		0.0830		2.9000		1.4000		2.6000		8.1000		15.0000		0.1900		1.4000		0.1700		0.3900	
Fluorene	520,000	60,000	30.0		0.0540		0.2400		0.2600		0.2900		0.0460		0.1500		0.0075	U	0.1200		0.0590		0.1200		1.4000		0.4500		0.0290	U	0.0400		0.0190	U	0.0220	
Indeno[1,2,3-cd]pyrene	1,200	58	72.0		0.1300		2.5000		1.9000		3.2000		0.1800		0.2400		0.0200		0.5800		0.2800		0.5800		1.2000		4.4000		0.0330		0.0340		0.0340		0.0840	
Naphthalene	560	450	5.1		0.0280		0.0620		0.0710	U	0.0730	U	0.0290	U	0.0600		0.0075	U	0.0310		0.0120		0.0290		0.0980		0.0880	U	0.0290	U	0.0250		0.0260		0.0090	
Phenanthrene	1,000,000	450,000	360.0		0.5600		3.6000		3.6000		4.2000		0.6600		1.4000		0.0670		1.6000		0.8000		1.4000		8.7000		5.9000		0.0970		0.6500		0.1300		0.2800	
Pyrene	390,000	45,000	400.0		0.5000		6.7000		6.7000		9.0000		0.9000		1.3000		0.0680		2.2000		1.0000		2.0000		6.3000		12.0000		0.1700		1.0000		0.1400		0.3100	

Notes:
U = indicates analyte not detected at indicated reporting limit (RL)
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
Highlighted values exceed one or more screening level concentrations

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August 2014)

ANALYTICAL TABLE G-2
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-1-1		IA-1-1		IA-1-2		IA-1-2		IA-1-3		IA-1-3		IA-1-4		IA-1-4		IA-1-5		IA-1-5		IA-1-6		IA-2-1		IA-2-2		Duplicate		IA-2-2		IA-2-3		IA-2-3	
Sample ID			SB11-SSA-2-0411		SB11-SSA-4-0411		SB12-SSA-2-0411		SB12-SSA-4-0411		SB13-SSA-2-0411		SB13-SSA-4-0411		SB14-SSA-2-0411		SB14-SSA-4-0411		SB15-SSA-2-0411		SB15-SSA-4-0411		SB16-SSA-15-0411		SB21-FTF-20-0411		SB22-FTF-1520-0411		SBDUP2		SB22-FTF-2022-0411		SB23-FTF-7510-0411		SB23-FTF-1012-0411	
Depth (feet)			0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5'		15'		20'		15' - 20'		15' - 20'		20' - 22.5'		7.5' - 10'		10' - 12.5'	
Sample Date			4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/7/2011		4/8/2011		4/8/2011		4/8/2011		4/8/2011		4/8/2011	
Sample Time			1015		1015		1040		1040		1140		1140		1105		1105		1127		1127		0900		1558		1000		1000		1012		1105		1115	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-1 SNOW STAGING AREA																						IA-2 FORMER TANK FARM											
VOCs - mg/kg																																				
Acetone	110,000	110,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.022	J,B	0.029	B	0.066	B	0.069	B	0.019	J,B	0.031	B	0.0160	J,B
Benzene	1,200	140	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.00082	J	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Bromodichloromethane	300	35	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Bromoform	130,000	6,200	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Bromomethane	550	82	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U
2-Butanone	28,000	28,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0230	U	0.0220	U	0.0094	J	0.0079	J	0.0230	U	0.0030	J	0.0240	U
Carbon disulfide	740	740	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0015	J	0.0008	J	0.0015		0.0062	U	0.0010	J	0.0058	U	0.0059	U
Carbon tetrachloride	460	79	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Chlorobenzene	760	760	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Dibromochloromethane	770	84	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Chloroethane	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U
Chloroform	320	38	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Chloromethane	1,300	1,300	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	J	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U
1,2-Dibromo-3-chloro-propane	15	1.7	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1100	U	0.0110	U	0.1100	U	0.0120	U	0.1200	U	0.0580	U	0.0120	U
1,2-Dibromoethane	38	4.4	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,2-Dichlorobenzene	380	380	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0580	U	0.0290	U	0.0059	U
1,3-Dichlorobenzene	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0580	U	0.0290	U	0.0059	U
1,4-Dichlorobenzene	2,600	310	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0580	U	0.0290	U	0.0059	U
Dichlorodifluoromethane	850	850	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0011	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U
1,1-Dichloroethane	1,700	420	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,2-Dichloroethane	480	56	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
cis-1,2-Dichloroethene	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0028	U	0.0028	U	0.0028	U	0.0031	U	0.0029	U	0.0029	U	0.0030	U
trans-1,2-Dichloroethene	1,700	1,700	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0028	U	0.0028	U	0.0028	U	0.0031	U	0.0029	U	0.0029	U	0.0030	U
1,1-Dichloroethene	360	1,200	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,2-Dichloropropane	180	120	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
cis-1,3-Dichloropropene	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
trans-1,3-Dichloropropene	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Ethylbenzene	480	480	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
n-Hexane	140	140	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
2-Hexanone	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.23	U	0.0220	U	0.0230	U	0.0010	J,B	0.0230	U	0.0230	U	0.0240	U
Isopropylbenzene	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Methylene chloride	3,300	3,300	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0071	B	0.0092	B	0.0074	B	0.0044	J,B	0.0039	J,B	0.0056	J,B	0.0044	J
4-Methyl-2-pentanone	3,400	3,400	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.23	U	0.022	U	0.023	U	0.025	U	0.023	U	0.023	U	0.0240	U
Methyl tert-butyl ether	8,900	5,700	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.023	U	0.022	U	0.023	U	0.025	U	0.023	U	0.023	U	0.0240	U
Styrene	870	870	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,1,2,2-Tetrachloroethane	670	75	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.058	U	0.029	U	0.0059	U
Tetrachloroethene	170	170	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Toluene	820	820	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,2,4-Trichloro-benzene	400	400	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.00051	J,B	0.058	U	0.029	U	0.0059	U
1,1,1-Trichloroethane	640	640	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
1,1,2-Trichloroethane	1,200	140	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Trichloroethene	17	51	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U
Trichlorofluoromethane	1,200	1,200	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.011	U	0.011	U	0.011	U	0.012	U	0.012	U	0.012	U	0.0120	U
Vinyl chloride	280	50	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0023	U	0.0022	U	0.0023	U	0.0025	U	0.0023	U	0.0023	U	0.0024	U
Xylenes (total)	260	260	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0057	U	0.0056	U	0.0057	U	0.0062	U	0.0058	U	0.0058	U	0.0059	U

Notes:

NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
VOC = volatile organic compound

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-3-1		IA-3-1		IA-3-2		IA-4-1		IA-4-1		IA-4-2		IA-4-2		IA-4-3		IA-4-3		IA-4-3		IA-4-3		IA-4-4		IA-4-5		IA-4-5		IA-4-5		IA-4-6		IA-4-7		IA-4-8		IA-4-8		IA-4-9		IA-4-9	
Sample ID			SB31-UST-2730-0411		SB31-UST-3032-0411		SB32-UST-1720-0411		SB41-OLD-255-0411		SB41-OLD-1215-0411		SB42-OLD-0710-0411		SB42-OLD-1720-0411		SB43-OLD-025-0411		SB43-OLD-1725-0411		SB43A-255-0511		SB43A-0510-0511		SB44-OLD-1720-0411		SB45-OLD-255-0411		SB45-OLD-1012-0411		SB45-OLD-2730-0411		SB46-OLD-1215-0411		SB47-OLD-1720-0411		SB48-255-0511		SB48-510-0511		SB49-05-0511		SB49-510-0511	
Depth (feet)			27.5' - 30'		30' - 32.5'		17.5' - 20'		2.5' - 5'		12.5' - 15'		7.5' - 10'		14.5' - 20'		2.5' - 5'		17.5' - 20'		2.5' - 5'		5' - 10'		17.5' - 20'		2.5' - 5'		10' - 12.5'		27.5' - 30'		12.5' - 15'		17.5' - 20'		2.5' - 5'		5' - 10'		0' - 5'		5' - 10'	
Sample Date			4/12/2011		4/12/2011		4/12/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		5/12/2011		5/12/2011		4/8/2011		4/11/2011		4/11/2011		4/11/2011		4/12/2011		4/12/2011		5/12/2011		5/12/2011		5/12/2011		5/12/2011	
Sample Time			1318		1336		1133		1407		1416		1520		1533		1148		1205		1154		1203		1452		1029		1046		1107		1002		0901		10135		1040		1115		1120	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-3 SUSPECTED FORMER AST/ UST						IA-4 FORMER WASTE WATER TREATMENT PLANT																																			
VOCs - mg/kg																																											
Acetone	110,000	110,000	0.0220	U	0.0087	J,B	0.0200	J,B	0.0640	B	0.0210	J,B	0.1700	B	0.0110	J,B	0.0530	B	0.0290	B	0.0230	U	0.0200	J	0.1200	B	0.0690	B	0.0490	B	0.0160	J,B	0.0210	J,B	0.0120	J,B	0.0570		0.0570		0.0220	U	0.1000	
Benzene	1,200	140	0.0055	U	0.0057	U	0.0006	J	0.0003	J	0.0058	U	0.0071	U	0.0057	U	0.0004	J	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0003	J	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
Bromodichloromethane	300	35	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
Bromoform	130,000	6,200	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0006	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Bromomethane	550	82	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0140	U	0.0110	U	0.0130	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0110	U	0.0110	U	0.0120	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
2-Butanone	28,000	28,000	0.0220	U	0.0230	U	0.0230	U	0.0230	U	0.0230	U	0.0360		0.0230	U	0.0250	U	0.0220	U	0.0230	U	0.0240	U	0.0100	J	0.0082	J	0.0097	J	0.0230	U	0.0230	U	0.0230	U	0.0220	U	0.0230	U	0.0220	U	0.0160	J
Carbon disulfide	740	740	0.0055	U	0.0057	U	0.0017	J	0.0013	J	0.0009	J	0.0071	U	0.0057	U	0.0063	U	0.0026	J	0.0057	U	0.0061	U	0.0058	U	0.0013	J	0.0013	J	0.0058	U	0.0013	J	0.0057	U	0.0076		0.0006	J	0.0055	U	0.0057	U
Carbon tetrachloride	460	79	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
Chlorobenzene	760	760	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Dibromochloromethane	770	84	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Chloroethane	NE	NE	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0140	U	0.0110	U	0.0130	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0110	U	0.0110	U	0.0120	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
Chloroform	320	38	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0007	J	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
Chloromethane	1,300	1,300	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0140	U	0.0110	U	0.0130	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0110	U	0.0110	U	0.0120	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
1,2-Dibromo-3-chloro-propane	15	2	0.0110	U	0.0570	U	0.0056	U	0.5700	U	0.0140	U	0.0570	U	0.0630	U	0.5500	U	0.0110	U	0.0120	U	0.0120	U	0.0570	U	0.0560	U	0.1200	U	0.1100	U	0.5600	U	0.5400	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
1,2-Dibromoethane	38	4	0.0055	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U
1,2-Dichlorobenzene	380	380	0.0055	U	0.0290	U	0.0290	U	0.0280	U	0.2900	U	0.0071	U	0.0290	U	0.0310	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0290	U	0.0280	U	0.0580	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
1,3-Dichlorobenzene	NE	NE	0.0055	U	0.0290	U	0.0290	U	0.0280	U	0.2900	U	0.0071	U	0.0290	U	0.0310	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0290	U	0.0280	U	0.0580	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
1,4-Dichlorobenzene	2,600	310	0.0055	U	0.0290	U	0.0290	U	0.0280	U	0.2900	U	0.0071	U	0.0290	U	0.0310	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0290	U	0.0280	U	0.0580	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Dichlorodifluoromethane	850	850	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0140	U	0.0110	U	0.0130	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0110	U	0.0110	U	0.0120	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
1,1-Dichloroethane	1,700	420	0.0055	U	0.0057	U	0.0057	U	0.0120		0.0240		0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
1,2-Dichloroethane	480	56	0.0055	U	0.0057	U	0.0057	U	0.0007	J	0.0058	U	0.0071	U	0.0057	U	0.0006	J	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
cis-1,2-Dichloroethene	NE	NE	0.0027	U	0.0029	U	0.0029	U	0.0028	U	0.0029	U	0.0035	U	0.0029	U	0.0031	U	0.0028	U	0.0029	U	0.0031	U	0.0029	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U
trans-1,2-Dichloroethene	1,700	1,700	0.0027	U	0.0029	U	0.0029	U	0.0028	U	0.0029	U	0.0035	U	0.0029	U	0.0031	U	0.0028	U	0.0029	U	0.0031	U	0.0029	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U	0.0028	U	0.0029	U
1,1-Dichloroethene	360	1,200	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
1,2-Dichloropropane	180	120	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
cis-1,3-Dichloropropene	NE	NE	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
trans-1,3-Dichloropropene	NE	NE	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Ethylbenzene	480	480	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.0130	J	0.0057	U	0.0055	U	0.0057	U
n-Hexane	140	140	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
2-Hexanone	NE	NE	0.0220	U	0.0230	U	0.1100	U	0.0230	U	1.1000	U	0.0280	U	0.0230	U	0.0250	U	1.1000	U	0.0230	U	0.0240	U	0.0230	U	0.0230	U	0.0220	U	0.0230	U	0.2300	U	1.1000	U	1.1000	U	0.0230	U	0.0220	U	0.0230	U
Isopropylbenzene	NE	NE	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0580	U	0.0560	U	0.2800	U	0.0082	J	0.0057	U	0.0055	U	0.0057	U
Methylene chloride	3,300	3,300	0.0055	B	0.0049	J,B	0.0075	B	0.0093	B	0.0052	J,B	0.0076	B	0.0057	B	0.0110	B	0.0150	B	0.0073	B	0.0052	J,B	0.0049	J,B	0.0082	B	0.0065	B	0.0090	B	0.0066	B	0.0047	J,B	0.0077	B	0.0046	J,B	0.0053	J,B	0.0045	J,B
4-Methyl-2-pentanone	3,400	3,400	0.0220	U	0.0230	U	0.1100	U	0.0230	U	1.1000	U	0.0280	U	0.0230	U	0.0250	U	1.1000	U	0.0230	U	0.0240	U	0.0230	U	0.0059	J,B	0.0220	U	0.0230	U	0.2300	U	1.1000	U	1.1000	U	0.0230	U	0.0220	U	0.0230	U
Methyl tert-butyl ether	8,900	5,700	0.0220	U	0.0230	U	0.0230	U	0.0230	U	0.0230	U	0.0280	U	0.0230	U	0.0250	U	0.0220	U	0.0230	U	0.0240	U	0.0230	U	0.0230	U	0.0220	U	0.0230	U	0.0230	U	0.0230	U	0.0220	U	0.0230	U	0.0220	U	0.0230	U
Styrene	870	870	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	63.0000	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
1,1,2,2-Tetrachloroethane	670	75	0.0055	U	0.0290	U	0.0290	U	0.0280	U	0.2900	U	0.0071	U	0.0290	U	0.0310	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0290	U	0.0280	U	0.0580	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Tetrachloroethene	170	170	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Toluene	820	820	0.0055	U	0.0057	U	0.0290	U	0.0004	J	0.2900	U	0.0071	U	0.0057	U	0.0008	J	0.2800	U	0.0003	J,B	0.0061	U	0.0058	U	0.0007	J	0.0006	J	0.0004	J	0.0560	U	0.0120	J	0.0190	J	0.0004	J,B	0.0004	J,B	0.0004	J,B
1,2,4-Trichloro-benzene	400	400	0.0055	U	0.0290	U	0.0290	U	0.0280	U	0.2900	U	0.0071	U	0.0290	U	0.0310	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0290	U	0.0280	U	0.0580	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
1,1,1-Trichloroethane	640	640	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
1,1,2-Trichloroethane	1,200	140	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.2700	U	0.0057	U	0.0055	U	0.0057	U
Trichloroethene	17	51	0.0055	U	0.0057	U	0.0057	U	0.0056	U	0.0058	U	0.0071	U	0.0057	U	0.0063	U	0.0056	U	0.0057	U	0.0061	U	0.0058	U	0.0057	U	0.0056	U	0.0058	U	0.0056	U	0.0057	U	0.0055	U	0.0057	U	0.0055	U	0.0057	U
Trichlorofluoromethane	1,200	1,200	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0120	U	0.0140	U	0.0110	U	0.0130	U	0.0110	U	0.0110	U	0.0120	U	0.0120	U	0.0110	U	0.0110	U	0.0120	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U	0.0110	U
Vinyl chloride	280	50	0.0022	U	0.0023	U	0.0023	U	0.0023	U	0.0023	U	0.0028	U	0.0023	U	0.0025	U	0.0022	U	0.0023	U	0.0024	U	0.0023	U	0.0023	U	0.0022	U	0.0023	U	0.0023	U	0.0110	U	0.0022	U	0.0023	U	0.0022	U	0.0023	U
Xylenes (total)	260	260	0.0055	U	0.0057	U	0.0290	U	0.0056	U	0.2900	U	0.0071	U	0.0057	U	0.0063	U	0.2800	U	0.0057	U	0.0061	U	0.0058	U	0.0008	J	0.0056	U	0.0058	U	0.0560	U	0.2800	U	0.0160	J	0.0057	U	0.0055	U	0.0057	U

Notes:

U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
VOC = volatile organic compound

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-5-1		IA-5-2		IA-5-3		IA-5-4		-		Landfill		Landfill		-		Composite		IA-6-1		Duplicate		IA-6-2		IA-6-2		IA-6-3		IA-6-3		IA-6-4		Duplicate		1A-6-5		1A-6-5		1A-6-6		1A-6-6		1A-6-7		1A-6-8		1A-6-8		1A-6-9		1A-6-9	
Sample ID			SB51-LAN-25-0411		SB52-LAN-25-0411		SB53-LAN-22-0411		SB54-LAN-5-0411		LANDFILL BORING		LANDFILL-1		LANDFILL-2		LANDFILL-3		LANDFILL-4		SB61-CSA-2225-0411		SBDUP412		SB62-CSA-02-0411		SB62-CSA-04-0411		SB63-CSA-02-0411		SB63-CSA-04-0411		SB64-CSA-04-0411		DUP0413		SB65-CSA-02-0411		SB65-CSA-04-0411		SB66-CSA-02-0411		SB66-CSA-04-0411		SB67-CSA-04-0411		SB68-CSA-02-0411		SB68-CSA-04-0411		SB69-CSA-02-0411		SB69-CSA-04-0411	
Depth (feet)			25'		25'		22'		5'		--		--		--		--		--		22.5' - 25'		22.5' - 25'		0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		2.5' - 5'		0' - 2.5'		2.5 - 5'		0' - 2.5'		2.5 - 5'	
Sample Date			4/6/2011		4/6/2011		4/6/2011		4/6/2011		4/13/2011		5/16/2011		5/16/2011		5/16/2011		5/16/2011		4/12/2011		4/12/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011	
Sample Time			1058		1212		1430		1515		1458		0930		-		-		-		1441		1441		1304		1304		1310		1310		1316		1316		1321		1321		1325		1325		1340		1336		1336		1331		1331	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-5 SOIL PILE/SLOPE FILL AREA																		IA-6 FORMER COAL STORAGE AREA																																			
VOCs - mg/kg																																																						
Acetone	110,000	110,000	0.0230	J,B	0.0230	J,B	0.0230	B	0.0180	J,B	0.0100	J,B	0.0240	U	0.0240	U	0.0230	U	0.0024	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Benzene	1,200	140	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Bromodichloromethane	300	35	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Bromoform	130,000	6,200	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Bromomethane	550	82	0.0120	U	0.0120	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
2-Butanone	28,000	28,000	0.0240	U	0.0240	U	0.0021	J	0.0250	U	0.0230	U	0.0240	U	0.0240	U	0.0230	U	0.0240	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Carbon disulfide	740	740	0.0011	J	0.0059	U	0.0011	J	0.0062	U	0.0009	J	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Carbon tetrachloride	460	79	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chlorobenzene	760	760	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Dibromochloromethane	770	84	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chloroethane	NE	NE	0.0120	U	0.0120	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chloroform	320	38	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Chloromethane	1,300	1,300	0.0120	U	0.0120	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2-Dibromo-3-chloro-propane	15	2	0.6000	U	0.0120	U	0.5700	U	0.0120	U	0.1200	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2-Dibromoethane	38	4	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2-Dichlorobenzene	380	380	0.3000	U	0.0059	U	0.2800	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,3-Dichlorobenzene	NE	NE	0.3000	U	0.0059	U	0.2800	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,4-Dichlorobenzene	2,600	310	0.3000	U	0.0059	U	0.2800	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Dichlorodifluoromethane	850	850	0.0120	U	0.0120	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,1-Dichloroethane	1,700	420	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2-Dichloroethane	480	56	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0011	J	0.0015	J	0.0008	J	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
cis-1,2-Dichloroethene	NE	NE	0.0030	U	0.0030	U	0.0029	U	0.0031	U	0.0029	U	0.0031	U	0.0029	U	0.0029	U	0.0030	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
trans-1,2-Dichloroethene	1,700	1,700	0.0030	U	0.0030	U	0.0029	U	0.0031	U	0.0029	U	0.0031	U	0.0029	U	0.0029	U	0.0030	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,1-Dichloroethene	360	1,200	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2-Dichloropropane	180	120	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
cis-1,3-Dichloropropene	NE	NE	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
trans-1,3-Dichloropropene	NE	NE	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Ethylbenzene	480	480	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
n-Hexane	140	140	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
2-Hexanone	NE	NE	0.0240	U	0.0240	U	0.0230	U	0.0250	U	0.2300	U	0.0240	U	0.0240	U	0.0230	U	0.0240	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Isopropylbenzene	NE	NE	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Methylene chloride	3,300	3,300	0.0055	J,B	0.0058	J,B	0.0046	J,B	0.0095	B	0.0098	B	0.0130	B	0.0290	B	0.0250	B	0.0180	B	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
4-Methyl-2-pentanone	3,400	3,400	0.0240	U	0.0240	U	0.0230	U	0.0250	U	NS		0.0240	U	0.0240	U	0.0230	U	0.0240	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Methyl tert-butyl ether	8,900	5,700	0.0240	U	0.0240	U	0.0230	U	0.0250	U	0.0230	U	0.0240	U	0.0240	U	0.0230	U	0.0240	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Styrene	870	870	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,1,2,2-Tetrachloroethane	670	75	0.3000	U	0.0059	U	0.2800	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Tetrachloroethene	170	170	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Toluene	820	820	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,2,4-Trichloro-benzene	400	400	0.3000	U	0.0059	U	0.2800	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,1,1-Trichloroethane	640	640	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
1,1,2-Trichloroethane	1,200	140	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Trichloroethene	17	51	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0058	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Trichlorofluoromethane	1,200	1,200	0.0120	U	0.0120	U	0.0110	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	0.0120	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Vinyl chloride	280	50	0.0024	U	0.0024	U	0.0023	U	0.0025	U	0.0023	U	0.0024	U	0.0024	U	0.0023	U	0.0024	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	
Xylenes (total)	260	260	0.0060	U	0.0059	U	0.0057	U	0.0062	U	0.0580	U	0.0061	U	0.0059	U	0.0058	U	0.0060	U	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
VOC = volatile organic compound
J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control lirSVOC - semivolatile organic compounds
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-8-1		IA-10-1		IA-10-2		IA-10-3		IA-10-3		IA-10-4		-	-	IA-14-1		IA-14-2		IA-14-3	
Sample ID			SB410-2527-0511		SB101-HAZ-20-0411		SB102-HAZ-30-0411		SB103-HAZ-5-0411		SB103-HAZ-10-0411		SB104-HAZ-15-0411		BACKGROUND-13-0422	BACKGROUND-23-0422	SB91-NEW-2527-0411		SB92-NEW-2530-0411		SB93-NEW-2730-0411	
Depth (feet)			25' - 27.5'		20'		30'		5'		10'		15'		13'	23'	25' - 27.5'		25' - 30'		27.5' - 30'	
Sample Date			5/12/2011		4/5/2011		4/5/2011		4/7/2011		4/7/2011		4/7/2011		4/22/2011	4/22/2011	4/13/2011		4/13/2011		4/13/2011	
Sample Time			1345		1355		1612		931		940		1112		1000	1010	908		1014		1138	
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard--Industrial Soil**	**IA-8 STAINED FLOORING, FLOOR DRAINS, SUMPS***		**IA-10 HAZARDOUS WASTE STORAGE PAD**										**Background Samples**		**IA-14 EASTERN STORAGE YARD**					
VOCs - mg/kg																						
Acetone	110,000	110,000	0.0210	J	0.0092	J,B	0.2	B	0.029	B	0.043	B	0.036	B	NS	NS	0.018	J,B	0.032	B	0.025	B
Benzene	1,200	140	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.00032	J	0.0061	U	NS	NS	0.0057	U	0.00056	J	0.002	J
Bromodichloromethane	300	35	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
Bromoform	130,000	6,200	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Bromomethane	550	82	0.0110	U	0.012	U	0.012	U	0.012	U	0.011	U	0.012	U	NS	NS	0.0028	J	0.011	U	0.011	U
2-Butanone	28,000	28,000	0.0220	U	0.023	U	0.032		0.024	U	0.0033	J	0.0031	J	NS	NS	0.0026	J	0.022	U	0.022	U
Carbon disulfide	740	740	0.0009	J	0.0058	U	0.0058	U	0.006	U	0.0021	J	0.0061	U	NS	NS	0.0023	J	0.0031	J	0.0043	J
Carbon tetrachloride	460	79	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
Chlorobenzene	760	760	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Dibromochloromethane	770	84	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Chloroethane	NE	NE	0.0110	U	0.0018	J	0.012	U	0.012	U	0.011	U	0.012	U	NS	NS	0.011	U	0.011	U	0.011	U
Chloroform	320	38	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
Chloromethane	1,300	1,300	0.0110	U	0.012	U	0.012	U	0.012	U	0.011	U	0.012	U	NS	NS	0.011	U	0.011	U	0.011	U
1,2-Dibromo-3-chloro-propane	15	2	0.0560	U	0.0012	U	0.0012	U	0.012	U	0.11	U	0.012	U	NS	NS	0.11	U	0.11	U	0.11	U
1,2-Dibromoethane	38	4	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
1,2-Dichlorobenzene	380	380	0.0280	U	0.0058	U	0.0058	U	0.006	U	0.056	U	0.0061	U	NS	NS	0.057	U	0.056	U	0.056	U
1,3-Dichlorobenzene	NE	NE	0.0280	U	0.0058	U	0.0058	U	0.006	U	0.056	U	0.0061	U	NS	NS	0.057	U	0.056	U	0.056	U
1,4-Dichlorobenzene	2,600	310	0.0280	U	0.0058	U	0.0058	U	0.006	U	0.056	U	0.0061	U	NS	NS	0.057	U	0.056	U	0.056	U
Dichlorodifluoromethane	850	850	0.0110	U	0.012	U	0.012	U	0.012	U	0.011	U	0.012	U	NS	NS	0.011	U	0.011	U	0.011	U
1,1-Dichloroethane	1,700	420	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
1,2-Dichloroethane	480	56	0.0056	U	0.0058	U	0.00043	J	0.00048	J	0.00067	J	0.00049	J	NS	NS	0.0057	U	0.0056	U	0.0056	U
cis-1,2-Dichloroethene	NE	NE	0.0028	U	0.0029	U	0.0029	U	0.003	U	0.0028	U	0.003	U	NS	NS	0.0029	U	0.0028	U	0.0028	U
trans-1,2-Dichloroethene	1,700	1,700	0.0028	U	0.0029	U	0.0029	U	0.003	U	0.0028	U	0.003	U	NS	NS	0.0029	U	0.0028	U	0.0028	U
1,1-Dichloroethene	360	1,200	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
1,2-Dichloropropane	180	120	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
cis-1,3-Dichloropropene	NE	NE	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
trans-1,3-Dichloropropene	NE	NE	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Ethylbenzene	480	480	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
n-Hexane	140	140	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
2-Hexanone	NE	NE	0.0220	U	0.023	U	0.023	U	0.024	U	0.022	U	0.024	U	NS	NS	0.023	U	0.22	U	0.22	U
Isopropylbenzene	NE	NE	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Methylene chloride	3,300	3,300	0.0055	J,B	0.0055	J,B	0.0065	B	0.0098	B	0.046	B	0.011	B	NS	NS	0.0048	J,B	0.013	B	0.0089	B
4-Methyl-2-pentanone	3,400	3,400	0.0220	U	0.023	U	0.023	U	0.024	U	0.022	U	0.024	U	NS	NS	0.023	U	0.22	U	NS	
Methyl tert-butyl ether	8,900	5,700	0.0220	U	0.023	U	0.023	U	0.024	U	0.022	U	0.024	U	NS	NS	0.023	U	0.022	U	0.022	U
Styrene	870	870	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
1,1,2,2-Tetrachloroethane	670	75	0.0280	U	0.0058	U	0.0058	U	0.006	U	0.056	U	0.0061	U	NS	NS	0.057	U	0.056	U	0.056	U
Tetrachloroethene	170	170	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Toluene	820	820	0.0003	J,B	0.0058	U	0.00037	J	0.006	U	0.00035	J	0.0061	U	NS	NS	0.00045	J	0.056	U	0.056	U
1,2,4-Trichloro-benzene	400	400	0.0280	U	0.0058	U	0.0058	U	0.006	U	0.056	U	0.0061	U	NS	NS	0.057	U	0.056	U	0.056	U
1,1,1-Trichloroethane	640	640	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
1,1,2-Trichloroethane	1,200	140	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U
Trichloroethene	17	51	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.0056	U	0.0056	U
Trichlorofluoromethane	1,200	1,200	0.0110	U	0.012	U	0.012	U	0.012	U	0.011	U	0.012	U	NS	NS	0.011	U	0.011	U	0.011	U
Vinyl chloride	280	50	0.0022	U	0.0023	U	0.0023	U	0.0024	U	0.0022	U	0.0024	U	NS	NS	0.0023	U	0.0022	U	0.0022	U
Xylenes (total)	260	260	0.0056	U	0.0058	U	0.0058	U	0.006	U	0.0056	U	0.0061	U	NS	NS	0.0057	U	0.056	U	0.056	U

Notes:
NS = Not sampled
U = the analyte was not detected above the listed reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)
*IA-8-1 is formerly IA-4-10
VOC = volatile organic compound

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-13-1		IA-13-2		IA-13-3		IA-13-4		IA-13-4		IA-13-5		IA-13-6		IA-13-7		IA-13-8		IA-13-9		IA-13-10		IA-13-11		IA-13-12		IA-13-13	
Sample ID			SB1-4-0613		SB2-4-0613		SB3-4-0613		SB4-3-0613		SB4-8-0613		SB5-3-0613		SB6-4-0613		SB7-4-0613		SB8-4-0613		SB9-6-0613		SB10-4-0613		SB11-3-0613		SB12-3-0613		SB13-4-0613	
Depth (feet)			4'		4'		4'		3'		8'		3'		4'		4'		4'		6'		4'		3'		3'		4'	
Sample Date			6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013		6/13/2013	
Sample Time			1015		1040		1105		1130		1135		1155		1255		1315		1345		1410		1450		1510		1530		1555	
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard-- Industrial Soil**	**IA-13 SOUTH TERRACE**																											
VOCs - mg/kg																														
Acetone	110,000	110,000	0.046		0.098		0.049		0.092		0.062		0.095		0.1		0.048		0.29		0.1		0.78		0.024	U	0.064	U	0.069	
Benzene	1,200	140	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.037		0.0057	U
Bromodichloromethane	300	35	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Bromoform	130,000	6,200	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Bromomethane	550	82	0.0011	U	0.012	U	0.013	U	0.012	U	0.012	U	0.011	U	0.012	U	0.012	U	0.011	U	0.013	U	0.024	U	0.012	U	0.032	U	0.011	U
2-Butanone	28,000	28,000	0.022	U	0.023	U	0.025	U	0.024	U	0.024	U	0.022	U	0.024	U	0.023	U	0.041		0.025	U	0.048	U	0.024	U	0.016	U	0.023	U
Carbon disulfide	740	740	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.064	U	0.0057	U
Carbon tetrachloride	460	79	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Chlorobenzene	760	760	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Dibromochloromethane	770	84	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Chloroethane	NE	NE	0.011	U	0.012	U	0.013	U	0.012	U	0.012	U	0.011	U	0.012	U	0.012	U	0.011	U	0.013	U	0.024	U	0.012	U	0.032	U	0.011	U
Chloroform	320	38	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Chloromethane	1,300	1,300	0.011	U	0.012	U	0.013	U	0.012	U	0.012	U	0.011	U	0.012	U	0.012	U	0.011	U	0.013	U	0.024	U	0.012	U	0.032	U	0.011	U
1,1-Dichloroethane	1,700	420	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
1,2-Dichloroethane	480	56	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
cis-1,2-Dichloroethene	NE	NE	0.0028	U	0.0029	U	0.0031	U	0.0029	U	0.003	U	0.0028	U	0.0031	U	0.0029	U	0.0029	U	0.031	U	0.006	U	0.003	U	0.008	U	0.0028	U
trans-1,2-Dichloroethene	1,700	1,700	0.0028	U	0.0029	U	0.0031	U	0.0029	U	0.003	U	0.0028	U	0.0031	U	0.0029	U	0.0029	U	0.031	U	0.006	U	0.003	U	0.008	U	0.0028	U
1,1-Dichloroethene	360	1,200	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
1,2-Dichloropropane	180	120	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
cis-1,3-Dichloropropene	NE	NE	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
trans-1,3-Dichloropropene	NE	NE	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
2-Hexanone	NE	NE	0.022	U	0.023	U	0.025	U	0.024	U	0.024	U	0.022	U	0.024	U	0.023	U	0.023	U	0.025	U	0.048	U	0.024	U	0.064	U	0.023	U
Methylene chloride	3,300	3,300	0.0055	U	0.011		0.0063	U	0.0072		0.006	U	0.0056	U	0.0089		0.0058	U	0.009		0.0063	U	0.021		0.0059		0.016	U	0.0057	U
4-Methyl-2-pentanone	3,400	3,400	0.022	U	0.023	U	0.025	U	0.024	U	0.024	U	0.022	U	0.024	U	0.023	U	0.023	U	0.025	U	0.048	U	0.024	U	0.064	U	0.023	U
Methyl tert-butyl ether	8,900	5,700	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Styrene	870	870	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
1,1,2,2-Tetrachloroethane	670	75	0.0055	U	0.057	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.062	U	0.0058	U	0.0057	U	0.0063	U	0.061	U	0.0059U		0.016	U	0.0057	U
Tetrachloroethene	170	170	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Toluene	820	820	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
1,1,1-Trichloroethane	640	640	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
1,1,2-Trichloroethane	1,200	140	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Trichloroethene	17	51	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.0059	U	0.016	U	0.0057	U
Vinyl chloride	280	50	0.011	U	0.012	U	0.013	U	0.012	U	0.012	U	0.011	U	0.012	U	0.012	U	0.011	U	0.013	U	0.024	U	0.012	U	0.032	U	0.011	U
Xylenes (total)	260	260	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.01		0.049		0.0057	U
Ethylbenzene	480	480	0.0055	U	0.0058	U	0.0063	U	0.0059	U	0.006	U	0.0056	U	0.0061	U	0.0058	U	0.0057	U	0.0063	U	0.012	U	0.006	U	0.031		0.0057	U

Notes:

U = indicates analyte not detected at indicated reporting limit (RL)

NE = No screening level concentration established

mg/ kg = milligrams per kilogram

All laboratory data provided by Test America Laboratories

Highlight values exceed one or more screening level concentrations

VOC = volatile organic compounds

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits

B - value qualified due to detection of analyte in one or more associated laboratory blanks

SVOC - semivolatile organic compounds

VAP - Ohio Voluntary Action Program

VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)

Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-13-14		IA-13-15		IA-13-16		IA-13-17		IA-13-18		IA-13-19		IA-13-20		IA-13-21		IA-13-22		IA-13-23		IA-13-24		IA-13-25		IA-13-26		IA-13-27						
Sample ID			SB14-3-0613		SB15-4-0613		SB16-3-0613		SB17-3-0613		SB18-4-0613		SB19-5-0613		SB20-2-0613		SB21-3-0613		SB22-3-0613		SB23-4-0613		SB24-4-0613		SB25-3-0613		SB26-3-0613		SB27-1-0613						
Depth (feet)			3'		4'		3'		3'		4'		5'		2'		3'		3'		4'		4'		3'		3'		1'						
Sample Date			6/13/2013		6/13/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013						
Sample Time			1615		1645		735		750		805		820		840		855		910		925		935		955		1030		1040						
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard--Industrial Soil**	**IA-13 SOUTH TERRACE**																																
VOCs - mg/kg																																			
Acetone	110,000	110,000	0.077		0.18		0.027	U	0.028	U	0.026	U	0.024	U	0.025	U	0.026	U	0.037		0.32		0.31		0.026	U	0.029		0.023	U					
Benzene	1,200	140	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Bromodichloromethane	300	35	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Bromoform	130,000	6,200	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Bromomethane	550	82	0.011	U	0.014	U	0.014	U	0.014	U	0.013	U	0.012	U	0.012	U	0.013	U	0	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U					
2-Butanone	28,000	28,000	0.023	U	0.028		0.027	U	0.028	U	0.026	U	0.024	U	0.025	U	0.026	U	0.023	U	0.034		0.051		0.026	U	0.023	U	0.023	U					
Carbon disulfide	740	740	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Carbon tetrachloride	460	79	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Chlorobenzene	760	760	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Dibromochloromethane	770	84	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Chloroethane	NE	NE	0.011	U	0.014	U	0.014	U	0.014	U	0.013	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U					
Chloroform	320	38	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Chloromethane	1,300	1,300	0.011	U	0.014	U	0.014	U	0.014	U	0.013	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U					
1,1-Dichloroethane	1,700	420	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
1,2-Dichloroethane	480	56	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
cis-1,2-Dichloroethene	NE	NE	0.0029	U	0.0034	U	0.0034	U	0.0036	U	0.0032	U	0.003	U	0.0031	U	0.0032	U	0.0028	U	0.0031	U	0.0029	U	0.0032	U	0.0029	U	0.0029	U					
trans-1,2-Dichloroethene	1,700	1,700	0.0029	U	0.0034	U	0.0034	U	0.0036	U	0.0032	U	0.003	U	0.0031	U	0.0032	U	0.0028	U	0.0031	U	0.0029	U	0.0032	U	0.0029	U	0.0029	U					
1,1-Dichloroethene	360	1,200	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
1,2-Dichloropropane	180	120	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
cis-1,3-Dichloropropene	NE	NE	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
trans-1,3-Dichloropropene	NE	NE	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
2-Hexanone	NE	NE	0.023	U	0.027	U	0.027	U	0.028	U	0.026	U	0.024	U	0.025	U	0.026	U	0.023	U	0.025	U	0.023	U	0.026	U	0.023	U	0.023	U					
Methylene chloride	3,300	3,300	0.0057	U	0.0068	U	0.016		0.0089		0.0064	U	0.006	U	0.014		0.012		0.0056	U	0.017		0.018		0.0079		0.0093		0.020						
4-Methyl-2-pentanone	3,400	3,400	0.023	U	0.027	U	0.027	U	0.028	U	0.026	U	0.024	U	0.025	U	0.026	U	0.023	U	0.025	U	0.023	U	0.026	U	0.023	U	0.023	U					
Methyl tert-butyl ether	8,900	5,700	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Styrene	870	870	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
1,1,2,2-Tetrachloroethane	670	75	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Tetrachloroethene	170	170	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Toluene	820	820	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
1,1,1-Trichloroethane	640	640	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
1,1,2-Trichloroethane	1,200	140	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Trichloroethene	17	51	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.0064	U	0.0057	U	0.0058	U					
Vinyl chloride	280	50	0.011	U	0.014	U	0.014	U	0.014	U	0.013	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U	0.012	U	0.013	U	0.011	U	0.012	U					
Xylenes (total)	260	260	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.023		0.006	U	0.0057	U	0.0058	U					
Ethylbenzene	480	480	0.0057	U	0.0068	U	0.0068	U	0.0071	U	0.0064	U	0.006	U	0.0062	U	0.0065	U	0.0056	U	0.0062	U	0.0058	U	0.064	U	0.0057	U	0.0058	U					

Notes:

U = indicates analyte not detected at indicated reporting limit (RL)

NE = No screening level concentration established

mg/ kg = milligrams per kilogram

All laboratory data provided by Test America Laboratories

Highlight values exceed one or more screening level concentrations

VOC = volatile organic compounds

VAP - Ohio Voluntary Action Program

VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)

Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G2 (CONTINUED)
SUMMARY OF VOCS IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-13-28		IA-13-15		IA-13-30		IA-13-30		IA-13-31		IA-13-32	
Sample ID			SB28-3-0613		SB29-3-0613		SB30-3-0613		SB30-9-0613		SB31-4-0613		SB32-1-0613	
Depth (feet)			3'		3'		3'		9'		4'		1'	
Sample Date			6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013		6/14/2013	
Sample Time			1050		1105		1120		1120		1105		1145	
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard-- Industrial Soil**	**IA-13 SOUTH TERRACE**											
VOCs - mg/kg														
Acetone	110,000	110,000	0.023	U	0.073		0.021	U	0.047		0.023	U	0.022	U
Benzene	1,200	140	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Bromodichloromethane	300	35	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Bromoform	130,000	6,200	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Bromomethane	550	82	0.012	U	0.011	U	0.01	U	0.012	U	0.011	U	0.011	U
2-Butanone	28,000	28,000	0.023	U	0.022	U	0.021	U	0.024	U	0.023	U	0.022	U
Carbon disulfide	740	740	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Carbon tetrachloride	460	79	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Chlorobenzene	760	760	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Dibromochloromethane	770	84	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Chloroethane	NE	NE	0.012	U	0.011	U	0.01	U	0.012	U	0.011	U	0.011	U
Chloroform	320	38	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Chloromethane	1,300	1,300	0.012	U	0.011	U	0.01	U	0.012	U	0.011	U	0.011	U
1,1-Dichloroethane	1,700	420	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
1,2-Dichloroethane	480	56	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
cis-1,2-Dichloroethene	NE	NE	0.0029	U	0.0027	U	0.026	U	0.003	U	0.0051		0.0028	U
trans-1,2-Dichloroethene	1,700	1,700	0.0029	U	0.0027	U	0.026	U	0.003	U	0.0028	U	0.0028	U
1,1-Dichloroethene	360	1,200	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
1,2-Dichloropropane	180	120	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
cis-1,3-Dichloropropene	NE	NE	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
trans-1,3-Dichloropropene	NE	NE	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
2-Hexanone	NE	NE	0.023	U	0.022	U	0.021	U	0.024	U	0.023	U	0.022	U
Methylene chloride	3,300	3,300	0.011		0.0055		0.0081		0.0066		0.013		0.01	
4-Methyl-2-pentanone	3,400	3,400	0.023	U	0.022	U	0.021	U	0.024	U	0.023	U	0.022	U
Methyl tert-butyl ether	8,900	5,700	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Styrene	870	870	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
1,1,2,2-Tetrachloroethane	670	75	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Tetrachloroethene	170	170	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Toluene	820	820	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
1,1,1-Trichloroethane	640	640	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
1,1,2-Trichloroethane	1,200	140	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Trichloroethene	17	51	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.1		0.0056	U
Vinyl chloride	280	50	0.012	U	0.011	U	0.01	U	0.012	U	0.011	U	0.011	U
Xylenes (total)	260	260	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U
Ethylbenzene	480	480	0.0058	U	0.0054	U	0.0052	U	0.006	U	0.0057	U	0.0056	U

Notes:
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
Highlight values exceed one or more screening level concentrations
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G3
SUMMARY OF PAHS, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS AND ETHYLENE GYLCOL IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

		Sample Location	IA-1-1		IA-1-1		IA-1-2		IA-1-2		IA-1-3		IA-1-3		IA-1-4		IA-1-4		IA-1-5		IA-1-5		IA-1-6		IA-2-1		IA-2-2		Duplicate		IA-2-2		IA-2-3		IA-2-3			
		Sample ID	SB11-SSA-2-0411		SB11-SSA-4-0411		SB12-SSA-2-0411		SB12-SSA-4-0411		SB13-SSA-2-0411		SB13-SSA-4-0411		SB14-SSA-2-0411		SB14-SSA-4-0411		SB15-SSA-2-0411		SB15-SSA-4-0411		SB16-SSA-15-0411		SB21-FTF-20-0411		SB22-FTF-1520-0411		SBDUP2		SB22-FTF-2022-0411		SB23-FTF-7510-0411		SB23-FTF-1012-0411			
		Depth (feet)	0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5-		0' - 2.5'		2.5' - 5'		15'		20'		15' - 20'		15' - 20'		20' - 22.5'		7.5' - 10'		10' - 12.5'			
		Sample Date	4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/5/2011		4/7/2011		4/8/2011		4/8/2011		4/8/2011		4/8/2011		4/8/2011			
		Sample Time	1015		1015		1040		1040		1140		1140		1105		1105		1127				0900		1558		1000		1000		1012		1105		1115			
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard--Industrial Soil**	**IA-1 SNOW STAGING AREA**																				**IA-2 FORMER TANK FARM**															
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																						
Acenaphthene	780,000	90,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Acenaphthylene	780,000	90,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Anthracene	1,000,000	450,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Benzo(a)anthracene	1,200	58	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Benzo(a)pyrene	120	5.8	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Benzo(b)fluoranthene	1,200	58	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Benzo(ghi)perylene	390,000	45,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0220		0.0078	U	0.0079	U		
Benzo(k)fluoranthene	12,000	580	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Chrysene	120,000	5,800	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0910		0.0083	U	0.0200		0.0110		0.0180			
Dibenz(a,h)anthracene	120	5.8	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Fluoranthene	160,000	60,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0220		0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Fluorene	520,000	60,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
Indeno(1,2,3-cd)pyrene	1,200	58	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0077	U	0.0078	U	0.0079	U		
1-Methylnaphthalene	31,000	1,500	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0650		0.0480		0.0190		0.0160		0.0370		0.0250		0.0220			
2-Methylnaphthalene	5,200	6,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0460		0.0520		0.0160		0.0120		0.0540		0.0220		0.0230			
Naphthalene	560	450	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0075	U	0.0075	U	0.0075	U	0.0083	U	0.0093		0.0078	U	0.0079	U		
Phenanthrene	1,000,000	450,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0670		0.0430		0.0180		0.0110		0.0300		0.0270		0.0250			
Pyrene	390,000	45,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0260		0.0075	U	0.0087		0.0083	U	0.0140		0.0078	U	0.0110			
Polychlorinated Biphenyls (PCB) - mg/kg																																						
Arochlor 1016	260	100	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1221	210	14	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1232	73	14	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1242	440	20	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1248	440	20	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1254	75	20	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
Arochlor 1260	440	20	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.0370	U	NS		NS		NS		NS		NS		NS			
RCRA Metals - mg/kg																																						
Arsenic	690	77	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		11.00		NS		NS		NS		NS		NS		NS			
Lead	400	800	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		8.60		NS		NS		NS		NS		NS		NS			
Barium	NE	NE	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		33.40	B	NS		NS		NS		NS		NS		NS			
Selenium	11,000	20,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.53	U	NS		NS		NS		NS		NS		NS			
Cadmium	1,000	2,600	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.53	U	NS		NS		NS		NS		NS		NS			
Chromium	1,200	210	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		12.60		NS		NS		NS		NS		NS		NS			
Silver	11,000	20,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		1.10	U	NS		NS		NS		NS		NS		NS			
Mercury	3.1	3.1	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.10	U	NS		NS		NS		NS		NS		NS			
Extractable Petroleum Hydrocarbons - mg/kg																																						
C6-C12	5,000*	5,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.1100	U	0.1100	U	0.1100	U	0.1200	U	0.1200	U	0.0550	J	0.1200	U		
C20 - C34	20,000*	20,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		150		210		160		53		110		120		170			
C10 - C20	10,000*	10,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		130		170		100		17	J	79		67		140			
Ethylene glycol - mg/kg	1,000,000	1,000,000	1.15	U	1.14	U	1.1	U	1.1	U	1.11	U	1.18	U	1.14	U	1.14	U	1.16	U	1.08	U	1.0500		NS		NS		NS		NS		NS		NS			

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
RCRA = resource, conservation, and recovery act

* = Ohio BUSTR Tier 1 Action Levels
J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

TABLE G3 (CONTINUED)
SUMMARY OF PAHS, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS AND ETHYLENE GYLCOL IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-3-1		IA-3-1		IA-3-2		IA-4-1		IA-4-1		IA-4-2		IA-4-2		IA-4-3		IA-4-3		IA-4-3A		IA-4-3A		IA-4-4		IA-4-5		IA-4-5		IA-4-5		IA-4-6		IA-4-7		IA-4-8		IA-4-8		IA-4-9		IA-4-9		IA-4-10	
Sample ID			SB31-UST-2730-0411		SB31-UST-3032-0411		SB32-UST-1720-0411		SB41-OLD-255-0411		SB41-OLD-1215-0411		SB42-OLD-0710-0411		SB42-OLD-1720-0411		SB43-OLD-025-0411		SB43-OLD-1725-0411		SB43A-255-0511		SB43A-0510-0511		SB44-OLD-1720-0411		SB45-OLD-255-0411		SB45-OLD-1012-0411		SB45-OLD-2730-0411		SB46-OLD-1215-0411		SB47-OLD-1720-0411		SB48-255-0511		SB48-510-0511		SB49-05-0511		SB49-510-0511		SB410-2527-0511	
Depth (feet)			27.5' - 30'		30' - 32.5'		17.5' - 20'		2.5' - 5'		12.5' - 15'		7.5' - 10'		14.5' - 20'		2.5' - 5'		17.5' - 20'		2.5' - 5'		5' - 10'		17.5' - 20'		2.5' - 5'		10' - 12.5'		27.5' - 30'		12.5' - 15'		17.5' - 20'		2.5' - 5'		5' - 10'		0' - 5'		5' - 10'		25' - 27.5'	
Sample Date			4/12/2011		4/12/2011		4/12/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		4/11/2011		5/12/2011		5/12/2011		4/8/2011		4/11/2011		4/11/2011		4/11/2011		4/12/2011		4/12/2011		5/12/2011		5/12/2011		5/12/2011		5/12/2011		5/12/2011	
Sample Time			1318		1336		1133		1407		1416		1520		1533		1148		1205		1154		1203		1452		1029		1046		1107		1002		0901		10135		1040		1115		1120		1345	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-3 SUSPECTED FORMER AST/UST						IA-4 FORMER WASTE WATER TREATMENT PLANT																																							
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																														
Acenaphthene	780,000	90,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	62.0		0.0190	U	0.1200		0.0082	U	0.0077	U	1.1000		0.0074	U	0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0076	U	0.0074	U
Acenaphthylene	780,000	90,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	4.2	U	0.0190	U	0.0077	U	0.0082	U	0.0077	U	0.1500	U	0.0074	U	0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0076	U	0.0074	U
Anthracene	1,000,000	450,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	120.0		0.0190	U	0.2000		0.0082	U	0.0077	U	2.7000		0.0150		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0076	U	0.0074	U
Benzo(a)anthracene	1,200	58	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	230.0		0.0190	U	0.4300		0.0180		0.0077	U	7.5000		0.0330		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0240		0.0074	U
Benzo(a)pyrene	120	5.8	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	190.0		0.0190	U	0.3600		0.0140		0.0077	U	7.0000		0.0390		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0270		0.0074	U
Benzo(b)fluoranthene	1,200	58	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	210.0		0.0190	U	0.4700		0.0200		0.0077	U	8.2000		0.0490		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0350		0.0074	U
Benzo(ghi)perylene	390,000	45,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0087		98.0		0.0190	U	0.2200		0.0082	U	0.0077	U	4.1000		0.0380		0.0110		0.0230		0.0076	U	0.0290	U	0.0076	U	0.0140		0.0240		0.0170	
Benzo(k)fluoranthene	12,000	580	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	170.0		0.0190	U	0.2400		0.0090		0.0077	U	4.7000		0.0240		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0420	J	0.0073	U	0.0210		0.0074	U
Chrysene	120,000	5,800	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0120		250.0		0.0190	U	0.4400		0.0170		0.0077	U	8.2000		0.0470		0.0300		0.0140		0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0360		0.0074	U
Dibenz(a,h)anthracene	120	5.8	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	34.0		0.0190	U	0.0077	U	0.0082	U	0.0077	U	1.6000		0.0070		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0076	U	0.0074	U
Fluoranthene	160,000	60,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	650.0		0.0190	U	0.1300		0.0410		0.0077	U	18.0		0.0770		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0150		0.0450		0.0074	U
Fluorene	520,000	60,000	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	51.0		0.0190	U	0.9700		0.0082	U	0.0077	U	0.8500		0.0074	U	0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0076	U	0.0074	U
Indeno(1,2,3-cd)pyrene	1,200	58	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	93.0		0.0190	U	0.1800		0.0082	U	0.0077	U	3.3000		0.0210		0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0073	U	0.0170		0.0074	U
1-Methylnaphthalene	31,000	1,500	NS		NS		NS		0.0110		0.0310	U	0.0094	U	0.0076	U	8.5000		0.0630		0.0220		0.0082	U	0.0077	U	0.1500	U	0.0074	U	0.0078	U	0.0088		9.8000		0.0290	U	0.0076	U	0.0080		0.0076	U	0.0170	
2-Methylnaphthalene	5,200	6,000	NS		NS		NS		0.0100		0.0310	U	0.0094	U	0.0076	U	13.0		0.0630		0.0330		0.0082	U	0.0077	U	0.2200		0.0083		0.0078	U	0.0087		0.0130		0.0290	U	0.0076	U	0.0097		0.0076	U	0.0260	
Naphthalene	560	450	NS		NS		NS		0.0075	U	0.0310	U	0.0094	U	0.0076	U	11.0		0.0190	U	0.0530		0.0110		0.0077	U	0.1500	U	0.0074	U	0.0078	U	0.0075	U	0.0076	U	0.0290	U	0.0076	U	0.0110		0.0140		0.0430	
Phenanthrene	1,000,000	450,000	NS		NS		NS		0.0200		0.0490		0.0094	U	0.0076	U	510.0		0.0600		1.1000		0.0300		0.0077	U	8.8000		0.0540		0.0440		0.0170		0.0076	U	0.0290	U	0.0190		0.0190		0.0320		0.0320	
Pyrene	390,000	45,000	NS		NS		NS		0.0110		0.0310	U	0.0094	U	0.0076	U	450.0		0.0220		0.8800		0.0310		0.0077	U	13.0		0.0800		0.0078	U	0.0180		0.0076	U	0.0290	U	0.0076	U	0.0140		0.0380		0.0074	U
Polychlorinated Biphenyls (PCB) - mg/kg																																													
Arochlor 1016	260	100	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1221	210	14	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1232	73	14	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1242	440	20	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1248	440	20	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1254	75	20	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0210	J	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0380	U	0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
Arochlor 1260	440	20	NS		NS		NS		0.0370	U	0.0380	U	0.0470	U	0.0380	U	0.0410	U	0.0370	U	0.0380	U	0.0400	U	0.0380	U	0.0400		0.0037	U	0.0038	U	0.0370	U	0.0380	U	0.0360	U	0.0380	U	0.0360	U	0.0380	U	0.0370	U
RCRA Metals - mg/kg																																													
Arsenic	690	77	NS		NS		NS		13.4		13.0		13.0		11.5		16.0		11.9		15.3		14.3		NS		43.1		18.5		14.6		9.2		17.50		15.60		15.70		14.00		14.50		11.80	
Lead	400	800	NS		NS		NS		12.5		12.5		23.2		11.6		57.2		11.3		13.4		12.4		NS		33.9		18.4		11.7		14.3		22.10		12.70		13.90		12.10		14.90		13.70	
Barium	NE	NE	NS		NS		NS		56.4	B	27.6	B	139.0	B	39.7	B	60.4	B	37.0	B	50.5	B	42.8	J	NS		60.5	B	56.9	B	50.5	B	30.0	B	72.80	B	102.00	B	59.10	B	52.60	B	49.70	B	80.10	B
Selenium	11,000	20,000	NS		NS		NS		0.6	U	0.6	U	0.7	U	0.6	U	0.1	U	0.6	U	0.6	U	0.5	U	NS		0.6	U	0.6	U	0.6	U	0.8		0.52	U	0.56		0.56	U	0.47	U	0.57		0.60	
Cadmium	1,000	2,600	NS		NS		NS		0.4	J	0.2	J	0.7	U	0.3	J	0.6		0.4	J	0.3	J	0.5		NS		0.2	J	0.4	J	0.2	J	0.1	U	0.52	U	0.33	J	0.22	J	0.50		0.49	U	0.70	
Chromium	1,200	210	NS		NS		NS		11.2		10.7		13.2		10.3		15.9		9.7		12.3		8.9		NS		13.3		11.8		10.7		11.7	B	8.40	B	12.20		14.00		10.20		12.60		9.50	
Silver	11,000	20,000	NS		NS		NS		1.1000	U	1.2000	U	1.4000	U	1.1000	U	1.3000	U	1.1000	U	1.1000	U	0.8900	U	NS		1.1000	U	1.1000	U	1.2000	U	1.1000	U	1.00	U	1.00	U	1.10	U	0.94	U	0.97	U	1.00	U
Mercury	3.1	3.1	NS		NS		NS		0.0840	U	0.1000	U	0.0440	J	0.1100	U	0.0590	J	0.1000	U	0.0220	J	0.1200	U	NS		0.0240	J	0.0800	U	0.1100	U	0.0190	J	0.0990	U	0.0180	J	0.0250	J	0.0680	U	0.0440	J	0.1000	U
Extractable Petroleum Hydrocarbons - mg/kg																																													
C6-C12	5,000*	5,000*	NS		NS		NS		0.1100	U	0.1200	U	0.1400	U	0.1100	U	0.1300	U	0.1100	U	0.1100	U	0.1200	U	0.1200	U	0.1100	U	0.1100	U	0.1200	U	0.1100	U	0.1100	U	0.1100	U	0.1100	U	0.1100	U	0.1100	U	0.1100	U
C20 - C34	20,000*	20,000*	22		19		70		120		150		40		61		19,000		180		54	B	24	B	21		1,200		130		110		120		94		57	B	24	B	140	B	19	U	150	B
C10 - C20	10,000*	10,000*	10	J	19	U	45		94		98		24	U	39		4,400		150		21		20	U	19	U	120	J	93	U	58		90		70		42		19	U	63		19	U	120	
Ethylene glycol - mg/kg	1,000,000	1,000,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
Highlight values exceed one or more screening level concentrations

* = Ohio BUSTR Tier 1 Action Levels
J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)
RCRA = resource, conservation, and recovery act

TABLE G3 (CONTINUED)
SUMMARY OF PAHS, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS AND ETHYLENE GYLCOL IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-5-1		IA-5-2		IA-5-3		IA-5-4		-		LF-1		LF-2		LF-3		LF-4		IA-6-1		Duplicate		IA-6-2		IA-6-2		IA-6-3		IA-6-3		IA-6-4		Duplicate		IA-6-5		IA-6-5		IA-6-6		IA-6-6		IA-6-7		IA-6-8		IA-6-8		IA-6-9		IA-6-9	
Sample ID			SB51-LAN-25-0411		SB52-LAN-25-0411		SB53-LAN-22-0411		SB54-LAN-5-0411		LANDFILL BORING		LANDFILL-1		LANDFILL-2		LANDFILL-3		LANDFILL-4		SB61-CSA-2225-0411		SBDUP412		SB62-CSA-02-0411		SB62-CSA-04-0411		SB63-CSA-02-0411		SB63-CSA-04-0411		SB64-CSA-04-0411		DUP0413		SB65-CSA-02-0411		SB65-CSA-04-0411		SB66-CSA-02-0411		SB66-CSA-04-0411		SB67-CSA-04-0411		SB68-CSA-02-0411		SB68-CSA-04-0411		SB69-CSA-02-0411		SB69-CSA-04-0411	
Depth (feet)			25'		25'		22'		5'		--		--		--		--		--		22.5' - 25'		22.5' - 25'		0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		2.5' - 5'		0' - 2.5'		2.5' - 5'		0' - 2.5'		2.5' - 5'	
Sample Date			4/6/2011		4/6/2011		4/6/2011		4/6/2011		4/13/2011		5/16/2011		5/16/2011		5/16/2011		5/16/2011		4/12/2011		4/12/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011		4/13/2011	
Sample Time			1058		1212		1430		1515		1458		0930		934		938		943		1441		1441		1304		1304		1310		1310		1316		1316		1321		1321		1325		1325		1340		1336		1336		1331		1331	
	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	IA-5 SOIL PILE/SLOPE FILL AREA																		IA-6 FORMER COAL STORAGE AREA																																					
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																																																								
Acenaphthene	780,000	90,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0078	U	0.0060	J	0.0078	U	0.0077	U	0.0059	J	0.0075	U	0.0075	U	0.0310	U	0.0560		0.0360		0.0400	U	0.0077	U	0.0081	U	0.0250		0.0080	U	0.0410	U	0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Acenaphthylene	780,000	90,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0078	U	0.0081	U	0.0078	U	0.0077	U	0.0081	U	0.0075	U	0.0075	U	0.0310	U	0.0390	U	0.0310	U	0.0400	U	0.0077	U	0.0081	U	0.0200	U	0.0080	U	0.0410	U	0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Anthracene	1,000,000	450,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0100		0.0089		0.0078	U	0.0077	U	0.0099		0.0075	U	0.0075	U	0.0420		0.1600		0.0840		0.1100		0.0077	U	0.0081	U	0.0550		0.0080	U	0.5700		0.0081	U	0.0390	U	0.0079	U	0.2100		0.0080	U
Benzo(a)anthracene	1,200	58	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0370		0.0310		0.0091		0.0059	J	0.0360		0.0075	U	0.0075	U	0.0870		0.2400		0.1200		0.1500		0.0077	U	0.0081	U	0.0860		0.0080	U	0.0720		0.0081	U	0.0400		0.0079	U	0.0079		0.1700		0.0076	J
Benzo(a)pyrene	120	5.8	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0280		0.0240		0.0072	J	0.0044	J	0.0300		0.0075	U	0.0075	U	0.0720		0.1900		0.0820		0.1100		0.0077	U	0.0081	U	0.0740		0.0080	U	0.0500		0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.1300		0.0080	U
Benzo(b)fluoranthene	1,200	58	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0450		0.0310		0.0120		0.0058	J	0.0430		0.0075	U	0.0075	U	0.0400		0.2600		0.1100		0.1400		0.0077	U	0.0081	U	0.0750		0.0080	U	0.0450		0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.1000		0.0120	
Benzo(ghi)perylene	390,000	45,000	0.0080	U	0.0079	U	0.0190		0.0083	U	0.0240		0.0160		0.0071	J	0.0052	J	0.0210		0.0075	U	0.0075	U	0.0590		0.1500		0.0700		0.0880		0.0077	U	0.0081	U	0.0610		0.0080	U	0.0820		0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Benzo(k)fluoranthene	12,000	580	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0200		0.0190		0.0049	J	0.0077	U	0.0210		0.0075	U	0.0075	U	0.0660		0.1100		0.0550		0.0690		0.0077	U	0.0081	U	0.0470		0.0080	U	0.0410	U	0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Chrysene	120,000	5,800	0.0080	U	0.0079	U	0.0130		0.0083	U	0.0450		0.0330		0.0130		0.0075	J	0.0400		0.0075	U	0.0075	U	0.1100		0.2800		0.1400		0.1800		0.0077	U	0.0081	U	0.0940		0.0080	U	0.0920		0.0081	U	0.0390		0.0096		0.0110		0.1800		0.0110	
Dibenz(a,h)anthracene	120	5.8	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0078	U	0.0081	U	0.0078	U	0.0077	U	0.0081	U	0.0075	U	0.0075	U	0.0310	U	0.0390	U	0.0310	U	0.0400	U	0.0077	U	0.0081	U	0.0200	U	0.0080	U	0.0410	U	0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Fluoranthene	160,000	60,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0890		0.0720		0.0210		0.0110		0.0970		0.0075	U	0.0075	U	0.1300		0.5200		0.2300		0.2900		0.0077	U	0.0081	U	0.1300		0.0080	U	0.0910		0.0081	U	0.0520		0.0079	U	0.0110		0.0190		0.0160	
Fluorene	520,000	60,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0078	U	0.0040	J	0.0078	U	0.0077	U	0.0081	U	0.0075	U	0.0075	U	0.0310	U	0.0660		0.0400		0.0410		0.0077	U	0.0081	U	0.0270		0.0080	U	0.0530		0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
Indeno(1,2,3-cd)pyrene	1,200	58	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0160		0.0130		0.0046	J	0.0077	U	0.0180		0.0075	U	0.0075	U	0.0320		0.0950		0.0440		0.0590		0.0077	U	0.0081	U	0.0320		0.0080	U	0.0410	U	0.0081	U	0.0390	U	0.0079	U	0.0077	U	0.0800	U	0.0080	U
1-Methylnaphthalene	31,000	1,500	0.0280		0.0079	U	0.0610		0.0083	U	0.0078	U	0.0051	J	0.0062	J	0.0065	J	0.0081	U	0.0110		0.0240		0.9700		0.7700		1.0000		0.9000		0.0190		0.0380		0.7400		0.0690		1.8000		0.0650		0.5500		0.0400		0.1200		2.4000		0.0540	
2-Methylnaphthalene	5,200	6,000	0.0310		0.0079	U	0.0740		0.0083	U	0.0078	U	0.0059	J	0.0120		0.0078	U	0.0041	J	0.0075	U	0.0360		1.5000		1.2000		1.5000		1.5000		0.0260		0.0630		1.2000		0.1100		2.6000		0.1000		0.7900		0.0600		0.0077	U	3.8000		0.0081	
Naphthalene	560	450	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0078	U	0.0081	U	0.0078	U	0.0077	U	0.0081	U	0.0075	U	0.0075	U	0.8200		0.6200		0.7900		0.9200		0.0160		0.0380		0.6300		0.0690		1.4000		0.0630		0.4300		0.0350		0.1200		2.2000		0.0520	
Phenanthrene	1,000,000	450,000	0.0350		0.0079	U	0.0450		0.0083	U	0.0530		0.0480		0.0190		0.0140		0.0640		0.0110		0.0170		0.4100		0.6900		0.4800		0.4900		0.0079		0.0160		0.3400		0.0280		0.5800		0.0300		0.1900		0.0220		0.0470		0.9600		0.0260	
Pyrene	390,000	45,000	0.0080	U	0.0079	U	0.0076	U	0.0083	U	0.0650		0.0540		0.0160		0.0095		0.0660		0.0075	U	0.0880		0.1400		0.4100		0.2000		0.2700		0.0077	U	0.0081	U	0.1300		0.0082		0.1300		0.0081	U	0.0770		0.0079	U	0.0140		0.2000		0.0140	
Polychlorinated Biphenyls (PCB) - mg/kg																																																						
Arochlor 1016	260	100	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0400	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1221	210	14	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1232	73	14	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1242	440	20	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1248	440	20	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1254	75	20	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
Arochlor 1260	440	20	0.0400	U	0.0390	U	0.0380	U	0.0410	U	0.0380	U	0.0400	U	0.0390	U	0.0380	U	0.4000	U	0.0370	U	0.0370	U	0.0390	U	0.0390	U	0.0390	U	0.0390	U	0.0380	U	0.0400	U	0.0380	U	0.0400	U	0.0390	U	0.0390	U	0.0400	U	0.0390	U	0.0380	U	0.0400	U	0.0390	U
RCRA Metals - mg/kg																																																						
Arsenic	690	77	13.2		11.2		17.7		12.6		15.1		14.0		15.0		12.0		14.0		11.9		13.5		15.9		16.9		19.2		27.6		15.8		18.4		16.9		24.7		9.6		14.9		21.3		11.1		12		16.6		7.8	
Lead	400	800	10.5		7.6		11.2		11.4		14.9		12.0		13.0		11.0		11.0		12.8		10.9		13.7		18.4		16.6		25.7		12.6		20.8		21.6		19.5		17.4		15		18.3		15.2		22.5		15.6		15.7	
Barium	NE	NE	55.7	B	23.9	B	47.8	B	64.6	B	60	B	47.0	B	53.0	B	46.0	B	57.0	B	39.4	J	38.5	J	67.5	J	64.9	B	90.8	B	122	B	72	B	68	B	69	B	82	B	69.3	B	65	B	58	B	70.1	B	75.6	B	55.3	B	59.5	B
Selenium	11,000	20,000	0.57	U	0.58	U	0.46	U	0.61	U	0.55		0.5	U	0.5	U	0.4	U	0.5	U	0.45	U	0.55	U	0.59	U	0.55	U	0.055	U	0.54	U	0.67		0.56	U	0.41	U	0.59		0.49	U	0.52	U	0.56	U	0.48	U	0.58	U	0.53	U	0.41	U
Cadmium	1,000	2,600	0.57	U	0.58	U	0.35	J	0.61	U	0.29	J	0.5	U	0.5	U	0.4	U	0.5	U	0.35	B	0.55	U	0.14	B	0.18	J	0.31	J	0.27	J	0.45	U	0.56	U	0.30	J	0.56	U	0.49	U	0.52	U	0.56	U	0.48	U	0.58	U	0.53	U	0.41	U
Chromium	1,200	210	10.8		4.7		9.8		10.5		13.6		11.0		11.0		9.9		10.0		8.7	J	9.8	J	12		12.1		12.7		10.5		15.90		15.7		10.8		15.8		12.3		14.1		14.7		11.9		11.5		12.7		11.3	
Silver	11,000	20,000	1.1	U	1.2	U	0.92	U	1.2	U	1	U	1.0	U	1.1	U	0.9	U	1.0	U	0.9	U	1.1	U	1.2	U	1.1	U	1.1	U	1.10	U	0.90	U	1.10	U	0.83	U	1.10	U	0.97	U	1.00	U	1.10	U	0.96	U	1.2	U	1.1	U	0.81	U
Mercury	3.1	3.1	0.069	U	0.11	U	0.11	U	0.03	J	0.095	U	0.016	J	0.018	J	0.016	J	0.021	J	0.082	U	0.11	U	0.04	B	0.03	J	0.022	J	0.25	J	0.06	J	0.04	J	0.04	J	0.04	J	0.04	J	0.097	U	0.04	J	0.033	J	0.041	J	0.022	J	0.028	J
Extractable Petroleum Hydrocarbons - mg/kg																																																						
C6-C12	5,000*	5,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		0.11	U	0.11	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U	0.12	U
C20 - C34	20,000*	20,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		44		51		170		140		170		130		19	U	20	U	130		240		55		20	U	170		29		35		70		56	
C10 - C20	10,000*	10,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		28		33		150		72		90		59		19	U	20	U	68		130		21		20	U	78		20	U	14	J	37		19	J
Ethylene glycol - mg/kg	1,000,000	1,000,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
* = Ohio BUSTR Tier 1 Action Levels
RCRA = resource, conservation, and recovery act

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)
* = Landfill sample LF-1, LF-2, LF-3, and LF-4 are composites of varied depths within each boring.

TABLE G3 (CONTINUED)
SUMMARY OF PAHS, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS AND ETHYLENE GYLCOL IN SOIL (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample Location			IA-10-1		IA-10-2		IA-10-3		IA-10-3		IA-10-4		IA-14-1		IA-14-2		IA-14-3		-		-	
Sample ID			SB101-HAZ-20-0411		SB102-HAZ-30-0411		SB103-HAZ-5-0411		SB103-HAZ-10-0411		SB104-HAZ-15-0411		SB91-NEW-2527-0411		SB92-NEW-2530-0411		SB93-NEW-2730-0411		BACKGROUND-13-0422		BACKGROUND-23-0422	
Depth (feet)			20'		30'		5'		10'		15'		25' - 27.5'		25' - 30'		27.5' - 30'		13'		23'	
Sample Date			4/5/2011		4/5/2011		4/7/2011		4/7/2011		4/7/2011		4/13/2011		4/13/2011		4/13/2011		4/22/2011		4/22/2011	
Sample Time			1355		1612		931		940		1112		908		1014		1138		1000		1010	
	Ohio VAP DC Construction/ Excavation	**Ohio VAP Generic DC Standard-- Industrial Soil**	**IA-10 HAZARDOUS WASTE STORAGE PAD**										**IA-14 EASTERN STORAGE YARD**						**Background Samples**			
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																						
Acenaphthene	780,000	90,000	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Acenaphthylene	780,000	90,000	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Anthracene	1,000,000	450,000	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Benzo(a)anthracene	1,200	58	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Benzo(a)pyrene	120	5.8	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076		0.0099		0.019	U	NS		NS	
Benzo(b)fluoranthene	1,200	58	0.0077	U	0.0077	U	0.0360		0.0074	U	0.0081	U	0.0099		0.0150		0.019	U	NS		NS	
Benzo(ghi)perylene	390,000	45,000	0.0077	U	0.0077	U	0.0080	U	0.0180		0.0081	U	0.0340		0.0390		0.019	U	NS		NS	
Benzo(k)fluoranthene	12,000	580	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Chrysene	120,000	5,800	0.0077	U	0.0077	U	0.0130		0.0160		0.0081	U	0.0120		0.0160		0.019	U	NS		NS	
Dibenz(a,h)anthracene	120	5.8	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.019	U	NS		NS	
Fluoranthene	160,000	60,000	0.0077	U	0.0077	U	0.0180		0.0074	U	0.0081	U	0.0100		0.0130		0.0190	U	NS		NS	
Fluorene	520,000	60,000	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0096		0.0074	U	0.0190	U	NS		NS	
Indeno(1,2,3-cd)pyrene	1,200	58	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.0190	U	NS		NS	
1-Methylnaphthalene	31,000	1,500	0.0077	U	0.0077	U	0.0080	U	0.0410		0.0081	U	0.0270		0.0130		0.0500		NS		NS	
2-Methylnaphthalene	5,200	6,000	0.0077	U	0.0077	U	0.0080	U	0.0390		0.0081	U	0.0230		0.0200		0.0770		NS		NS	
Naphthalene	560	450	0.0077	U	0.0077	U	0.0080	U	0.0074	U	0.0081	U	0.0076	U	0.0074	U	0.0260		NS		NS	
Phenanthrene	1,000,000	450,000	0.0077	U	0.0077	U	0.0080	U	0.0360		0.0081	U	0.0300		0.0190		0.0430		NS		NS	
Pyrene	390,000	45,000	0.0077	U	0.0077	U	0.0150		0.0074	U	0.0081	U	0.0180		0.0200		0.0190	U	NS		NS	
Polychlorinated Biphenyls (PCB) - mg/kg																						
Arochlor 1016	260	100	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1221	210	14	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1232	73	14	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1242	440	20	0.0380	U	0.0380	U	0.0240	J	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1248	440	20	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1254	75	20	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
Arochlor 1260	440	20	0.0380	U	0.0380	U	0.0400	U	0.0370	U	0.0400	U	0.0380	U	0.0370	U	0.0370	U	NS		NS	
RCRA Metals - mg/kg																						
Arsenic	690	77	19.1		16.6		17.6		15.4		17.6		13.0		12.0		12.4		14.0		13.8	
Lead	400	800	15.0		14.7		15.5		11.3		15.5		11.3		9.9		9.8		12.8		12.4	
Barium	NE	NE	40.1	J	47.5	J	54.8	J	46.8	J	68.8	J	42.1	B	33.7	B	56.9	B	28.8	B	63.1	B
Selenium	11,000	20,000	0.81		0.76		0.50	U	0.53	B	0.58	U	0.48	U	0.51	U	0.42	U	0.49	U	0.47	U
Cadmium	1,000	2,600	0.46	U	0.55	U	0.05	U	0.55	U	0.58	U	0.48	U	0.51	U	0.25	J	0.30	J	0.41	J
Chromium	1,200	210	12.9		12.7		10.9		10.1		13.6		12.9		16.7		10.2		11.6		10.3	
Silver	11,000	20,000	0.91	U	1.10	U	0.99	U	1.10	U	1.20	U	0.96	U	1.00	U	0.84	U	0.99	U	0.93	U
Mercury	3.1	3.1	0.022	B	0.030	B	0.120	U	0.024	B	0.110	U	0.110	U	0.095	U	0.085	U	0.019	J	0.096	U
Extractable Petroleum Hydrocarbons - mg/kg																						
C6-C12	5,000*	5,000*	NS		NS		NS		NS		NS		0.11	U	0.11	U	0.11	U	NS		NS	
C20 - C34	20,000*	20,000*	NS		NS		NS		NS		NS		34.0		41.0		82.0		NS		NS	
C10 - C20	10,000*	10,000*	NS		NS		NS		NS		NS		27.0		28.0		79.0		NS		NS	
Ethylene glycol - mg/kg	1,000,000	1,000,000	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS	

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
* = Ohio BUSTR Tier 1 Action Levels
RCRA = resource, conservation, and recovery act

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

ANALYTICAL TABLE E-4
SUMMARY OF VOCS IN MONITORING WELL GROUND WATER SAMPLES (mg/L)
FORMER MANSFIELD STAMPING PLANT

Sample ID		MW2-1		MW2-1	MW2-2		DUPLICATE		MW2-2	MW4-7		MW4-7		MW5-1		MW5-1	MW5-2S		MW5-2S		MW5-2D		MW5-2D	MW5-4		MW5-4	MW10-2		MW10-2		MW14-1		DUPLICATE	
Sample Date		4/27/2011		6/2/2011	4/29/2011		4/29/2011		6/2/2011	4/28/2011		6/2/2011		4/27/2011		6/2/2011	4/28/2011		6/2/2011		4/28/2011		6/2/2011	4/28/2011		6/2/2011	4/27/2011		6/2/2011		4/28/2011		6/2/2011	
Sample Time		1742		1506	1100		1100		1600	0917		1715		1955		1326	1215		0825		1332		0952	1550		1125	1541		1350		1330		1350	
	Ohio VAP Generic Unrestricted Potable Use Standards																																	
VOCs - mg/L																																		
Acetone	12.0000	0.010	U	NS	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	NS	0.010	U	0.010	U	0.010	U	0.010	U
Benzene	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Bromodichloromethane	0.0800	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Bromoform	0.0800	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Bromomethane	0.0070	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
2-Butanone	4.9000	0.010	U	NS	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	NS	0.010	U	0.010	U	0.010	U	0.010	U
Carbon disulfide	0.7200	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.00028	J	0.005	U	0.001	U	0.005	U
Carbon tetrachloride	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Chlorobenzene	0.1000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Dibromochloromethane	0.0800	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Chloroethane	21.0000	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
Chloroform	0.0800	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Chloromethane	0.1900	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
1,2-Dibromo-3-chloro-propane	0.0002	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.005	U	0.002	U	NS	0.002	U	0.005	U	0.002	U	NS	0.002	U	NS	0.002	U	0.005	U	0.002	U	0.005	U
1,2-Dibromoethane	0.00005	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,2-Dichlorobenzene	0.6000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,3-Dichlorobenzene	NE	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,4-Dichlorobenzene	0.0750	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Dichlorodifluoromethane	2.8000	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
1,1-Dichloroethane	0.2400	0.001	U	NS	0.001	U	0.001	U	NS	0.012		0.022		0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,2-Dichloroethane	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
cis-1,2-Dichloroethene	0.0700	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.007		0.004	J	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
trans-1,2-Dichloroethene	0.1000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001		0.001	J	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,1-Dichloroethene	0.0070	0.001	U	NS	0.001	U	0.001	U	NS	0.002		0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,2-Dichloropropane	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
cis-1,3-Dichloropropene	NE	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
trans-1,3-Dichloropropene	NE	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Ethylbenzene	0.7000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
n-Hexane	0.2500	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
2-Hexanone	NE	0.010	U	NS	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	NS	0.010	U	0.010	U	0.010	U	0.010	U
Isopropylbenzene	NE	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Methylene chloride	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
4-Methyl-2-pentanone	1.0000	0.010	U	NS	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	0.010	U	0.010	U	NS	0.010	U	NS	0.010	U	0.010	U	0.010	U	0.010	U
Methyl tert-butyl ether	0.1200	0.005	U	NS	0.005	U	0.005	U	NS	0.005	U	NS		0.005	U	NS	0.005	U	NS		0.005	U	NS	0.005	U	NS	0.005	U	NS		0.005	U	NS	
Styrene	0.1000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,1,2,2-Tetrachloroethane	0.00066	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Tetrachloroethene	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	J	0.001	J	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Toluene	1.0000	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,2,4-Trichloro-benzene	0.0700	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,1,1-Trichloroethane	0.2000	0.001	U	NS	0.001	U	0.001	U	NS	0.034		0.057		0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
1,1,2-Trichloroethane	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Trichloroethene	0.0050	0.001	U	NS	0.001	U	0.001	U	NS	0.001	U	0.005	U	0.001	U	NS	0.011		0.00766		0.001	U	NS	0.001	U	NS	0.001	U	0.005	U	0.001	U	0.005	U
Trichlorofluoromethane	1.1000	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
Vinyl chloride	0.0020	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.010	U	0.002	U	NS	0.002	J	0.001	J	0.002	U	NS	0.002	U	NS	0.002	U	0.010	U	0.002	U	0.010	U
Xylenes (total)	10.0000	0.002	U	NS	0.002	U	0.002	U	NS	0.002	U	0.005	U	0.002	U	NS	0.002	U	0.005	U	0.002	U	NS	0.002	U	NS	0.002	U	0.005	U	0.002	U	0.005	U

Notes:

NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
Highlighted values exceed one or more screening level concentrations
mg/L = milligrams per liter
All laboratory data provided by Test America Laboratories
NE = No screening level standard established

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VOC = volatile organic compound
Standards from OAC 3745-300-08 updated August, 2014

ANALYTICAL TABLE E-5
SUMMARY OF PAH, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS, GASOLINE ORGANICS AND ETHYLENE GYLCOL IN MONIOTORING WELL GROUND WATER SAMPLES (mg/L)
FORMER MANSFIELD STAMPING PLANT

Sample ID	Ohio VAP Generic Unrestricted Potable Use Standards	MW2-1		MW2-1		MW2-2		DUPLICATE		MW2-2		MW4-7		MW4-7		MW5-1		MW5-1		MW5-2S		MW5-2S		MW5-2D		MW5-2D		MW5-4		MW5-4		MW10-1		MW10-2		MW14-1		DUPLICATE	
Sample Type (Grab/Composite)		4/27/2011		6/2/2011		4/29/2011		4/29/2011		6/2/2011		4/28/2011		6/2/2011		4/27/2011		6/2/2011		4/28/2011		6/2/2011		4/28/2011		6/2/2011		4/28/2011		6/2/2011		4/27/2011		6/2/2011		4/28/2011		6/2/2011	
Sample Time		1742		1506		1100		1100		1600		0917		1715		1955		1326		1215		0825		1332		0952		1550		1125		1541		1350		1330		1350	
Polynuclear Aromatic Hydrocarbons (PAH) - mg/L																																							
Acenaphthene	0.40	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Acenaphthylene	0.40	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Anthracene	1.30	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Benzo(a)anthracene	0.00092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Benzo(a)pyrene	0.00020	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Benzo(b)fluoranthene	0.00092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002		NS	
Benzo(ghi)perylene	0.087	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Benzo(k)fluoranthene	0.0092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Chrysene	0.092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0003		NS	
Dibenz(a,h)anthracene	0.000092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Fluoranthene	0.63	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0005		NS	
Fluorene	0.22	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Indeno(1,2,3-cd)pyrene	0.00092	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
1-Methylnaphthalene	0.01	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
2-Methylnaphthalene	0.027	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Naphthalene	0.001	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS	
Phenanthrene	1.30	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0003		NS	
Pyrene	0.087	0.0002	U	NS		0.0002	U	NS		NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0004		NS	
RCRA Metals - mg/L																																							
Arsenic	0.01	0.0333		0.0383		0.0079	J	0.0127		0.0294		0.0100	U	0.0091	J	0.0160		0.0207		0.0100	U	0.0112		0.0145		0.0188		0.0387		0.0465		0.0100	U	0.0100	U	0.0100	U	0.0058	
Lead	0.015	0.0030	U	NS		0.0030	U	0.0030	U	NS		0.0030	U	NS		0.0030	U	NS		0.0030	U	NS		0.0030	U	NS		0.0030	U	NS		0.0024	J	0.0148		0.0029	J	0.0135	
Barium	NE	0.4520	J	NS		0.1420	J,B	0.1380	J,B	NS		0.0798	J,B	NS		0.0362	J,B	NS		0.0270	J,B	NS		0.1410	J,B	NS		0.0482	J,B	NS		0.1760	J,B	0.0629		0.0282	J,B	0.0692	
Selenium	0.050	0.0050	U	NS		0.0050	U	0.0050	U	NS		0.0050	U	NS		0.0050	U	NS		0.0050	U	NS		0.0050	U	NS		0.0050	U	NS		0.0050	U	0.1050		0.0050	U	0.0909	
Cadmium	0.005	0.0040	U	NS		0.0040	U	0.0040	U	NS		0.0040	U	NS		0.0040	U	NS		0.0040	U	NS		0.0040	U	NS		0.0040	U	NS		0.0040	U	0.0040	U	0.0040	U	0.0040	U
Chromium	0.10	0.0100	U	NS		0.0100	U	0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0210	U	0.0210	U	0.0043	J	0.0210	U
Silver	0.079	0.0100	U	NS		0.0100	U	0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	NS		0.0100	U	0.0064		0.0100	U	0.0060	
Mercury	0.002	0.0002	U	NS		0.0002	U	0.0002	J	NS		0.0020	U	NS		0.0020	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	NS		0.0002	U	0.0002	U	0.0002	U	0.0002	U
Extractable Petroleum Hydrocarbons - mg/L																																							
C20 - C34	--	0.5000	U	NS		0.5000		NS		NS		0.2500	J	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.6500		NS	
C10 - C20	--	0.5000	U	NS		0.2600	J	NS		NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS		0.5000	U	NS	
Volatile organics - mg/L																																							
Gasoline Range Organics (C6 - C12)	--	0.0260	J	NS		0.0250	J	0.0260	J	NS		0.0430	J	N		0.0290	J	NS		0.0360	J	NS		0.1000	U	NS		0.1000	U	NS		0.1000	U	NS		0.1000	U	NS	

Notes:

NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ l = milligrams per liter
All laboratory data provided by Test America Laboratories
Highlighted values exceed one or more screening level concentrations

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
Standards from OAC 3745-300-08 updated August, 2014
RCRA = Resource, conservation, and recovery act

ANALYTICAL TABLE G-6
SUMMARY OF VOCS IN SEDIMENT (mg/kg)
FORMER MANFIELD STAMPING PLANT

Sample ID	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard--Industrial Soil	SD01-SSA-0411		SD02-SSA-0411		SDDUPO1		SD03-SSA-0411		SD04-SSA-0411		SD05-SSA-0411		SD06-LAN-0411		SD07-LAN-0411		SD08-LAN-0411		SD11-LAN-0411		SD12-LAN-0411		SD13-CSA-0411
Sample Type (Grab/Composite)			Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab		Grab
Sample Date			4/7/2011		4/7/2011		4/7/2011		4/7/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011
Sample Time			1403		1420		1420		1438		1040		1428		1230		1210		1100		1150		1415		1535
VOCs - mg/kg																									
Acetone	110,000	110,000	0.025	J,B	0.063	B	0.029	J,B	0.019	J,B	0.014	J,B	0.027	J,B	0.021	J,B	0.028	U	0.011	J,B	0.012	J,B	0.017	J,B	NS
Benzene	1,200	140	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Bromodichloromethane	300	35	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Bromoform	130,000	6,200	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Bromomethane	550	82	0.019	U	0.015	U	0.016	U	0.014	U	0.013	U	0.0046	J	0.015	U	0.014	U	0.013	U	0.018	U	0.014	U	NS
2-Butanone	28,000	28,000	0.004	J	0.01	J	0.0057	J	0.0033	J	0.0043	J	0.0059	J	0.0051	J	0.028	U	0.026	U	0.035	U	0.003	J,B	NS
Carbon disulfide	740	740	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.00086	J	0.01	U	0.00087	J	0.0069	U	0.0066	U	0.0088	U	0.007	U	NS
Carbon tetrachloride	460	79.0	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.007	U	NS
Chlorobenzene	760	760	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.007	U	NS
Dibromochloromethane	770	84	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.007	U	NS
Chloroethane	NE	NE	0.019	U	0.015	U	0.016	U	0.014	U	0.013	U	0.021	U	0.015	U	0.014	U	0.013	U	0.018	U	0.014	U	NS
Chloroform	320	38	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.007	U	NS
Chloromethane	1,300	1,300	0.019	U	0.015	U	0.016	U	0.014	U	0.013	U	0.021	U	0.015	U	0.014	U	0.013	U	0.018	U	0.014	U	NS
1,2-Dibromo-3-chloro-propane	15	1.7	0.019	U	0.015	U	0.016	U	0.014	U	0.13	U	0.1	U	0.015	U	0.14	U	0.013	U	0.088	U	0.014	U	NS
1,2-Dibromoethane	38	4.4	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,2-Dichlorobenzene	380	380	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.052	U	0.0073	U	0.069	U	0.0066	U	0.044	U	0.0069	U	NS
1,3-Dichlorobenzene	NE	NE	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.052	U	0.0073	U	0.069	U	0.0066	U	0.044	U	0.0069	U	NS
1,4-Dichlorobenzene	2,600	310	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.052	U	0.0073	U	0.069	U	0.0066	U	0.044	U	0.0069	U	NS
Dichlorodifluoromethane	850	850	0.019	U	0.015	U	0.016	U	0.014	U	0.013	U	0.021	U	0.015	U	0.014	U	0.013	U	0.018	U	0.014	U	NS
1,1-Dichloroethane	1,700	420	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,2-Dichloroethane	480	56	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0076	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
cis-1,2-Dichloroethene	NE	NE	0.0048	U	0.0038	U	0.004	U	0.0036	U	0.0033	U	0.0052	U	0.0037	U	0.0035	U	0.0033	U	0.0044	U	0.0035	U	NS
trans-1,2-Dichloroethene	1,700	1,700	0.0048	U	0.00038	U	0.004	U	0.0036	U	0.0033	U	0.0052	U	0.0037	U	0.0035	U	0.0033	U	0.0044	U	0.0035	U	NS
1,1-Dichloroethene	360	1,200	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,2-Dichloropropane	180	120	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
cis-1,3-Dichloropropene	NE	NE	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
trans-1,3-Dichloropropene	NE	NE	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Ethylbenzene	480	480	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
n-Hexane	140	140	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
2-Hexanone	NE	NE	0.039	U	0.031	U	0.032	U	0.029	U	0.27	U	0.042	U	0.029	U	0.028	U	0.026	U	0.035	U	0.028	U	NS
Isopropylbenzene	NE	NE	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Methylene chloride	3,300	3,300	0.0086	J,B	0.0052	J,B	0.0067	J,B	0.0072	B	0.0055	J,B	0.0061	J,B	0.0045	J,B	0.0022	J,B	0.0032	J,B	0.0023	J,B	0.0023	J,B	NS
4-Methyl-2-pentanone	3,400	3,400	0.039	U	0.031	U	0.032	U	0.029	U	NS	NS	0.042	U	0.029	U	0.028	U	0.026	U	0.035	U	0.028	U	NS
Methyl tert-butyl ether	8,900	5,700	0.0097	U	0.031	U	0.032	U	0.029	U	0.027	U	0.042	U	0.029	U	0.028	U	0.026	U	0.035	U	0.028	U	NS
Styrene	870	870	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,1,2,2-Tetrachloroethane	670	75	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.052	U	0.0073	U	0.069	U	0.0066	U	0.044	U	0.0069	U	NS
Tetrachloroethene	170	170	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Toluene	820	820	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,2,4-Trichloro-benzene	400	400	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.052	U	0.0073	U	0.069	U	0.0066	U	0.044	U	0.0069	U	NS
1,1,1-Trichloroethane	640	640	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
1,1,2-Trichloroethane	1,200	140	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Trichloroethene	17	51	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.0067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS
Trichlorofluoromethane	1,200	1,200	0.019	U	0.015	U	0.016	U	0.014	U	0.013	U	0.021	U	0.015	U	0.014	U	0.013	U	0.018	U	0.014	U	NS
Vinyl chloride	280	50	0.0039	U	0.0031	U	0.0032	U	0.0029	U	0.0027	U	0.0042	U	0.0029	U	0.0028	U	0.0026	U	0.0035	U	0.0028	U	NS
Xylenes (total)	260	260	0.0097	U	0.0077	U	0.0079	U	0.0072	U	0.067	U	0.01	U	0.0073	U	0.0069	U	0.0066	U	0.0088	U	0.0069	U	NS

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
NE = No screening level concentration established
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
VOC = volatile organic compounds

J - value qualified due to concentration being below quantitation limit, or due to ÇSVOC - semivolatile organic compounds
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

ANALYTICAL TABLE G-7
SUMMARY OF PAHS, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS AND ETHYLENE GYLCOL IN SEDIMENT (mg/kg)
FORMER MANSFIELD STAMPING PLANT

Sample ID	Ohio VAP DC Construction/ Excavation	Ohio VAP Generic DC Standard-- Industrial Soil	SD01-SSA-0411		SD02-SSA-0411		SDDUPO1		SD03-SSA-0411		SD04-SSA-0411		SD05-SSA-0411		SD06-LAN-0411		SD07-LAN-0411		SD08-LAN-0411		SD11-LAN-0411		SD12-LAN-0411		SD13-CSA-0411	
Sample Location			SD-1		SD-2		SD-2		SD-3		SD-4		SD-5		SD-6		SD-7		SD-8		SD-11		SD-12		SD-13	
Sample Date			4/7/2011		4/7/2011		4/7/2011		4/7/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011		4/14/2011	
Sample Time			1403		1420		1420		1438		1040		1428		1230		1210		1100		1150		1415		1535	
Polynuclear Aromatic Hydrocarbons (PAH) - mg/kg																										
Acenaphthene	780,000	90,000	0.01	U	1.20		0.33		0.20		2.80		0.04	U	0.034		0.0092	U	0.17		0.065		0.015		0.026	
Acenaphthylene	780,000	90,000	0.01	U	0.20	U	0.21	U	0.04	U	0.45	U	0.04	U	0.02	U	0.0092	U	0.04	U	0.02	U	0.01	U	0.01	U
Anthracene	1,000,000	450,000	0.035		2.70		0.86		0.30		7.00		0.18		0.11		0.0092	U	0.36		0.18		0.047		0.062	
Benzo(a)anthracene	1,200	58	0.29		10.00		6.40		1.40		18.00		1.30		0.72		0.0092	U	0.97		0.84		0.18		0.37	
Benzo(a)pyrene	120	5.8	0.40		10.00		8.20		1.50		17.00		1.70		0.95		0.0092	U	0.95		0.90		0.17		0.38	
Benzo(b)fluoranthene	1,200	58	0.89		15.00		12.00		2.50		21.00		2.70		1.40		0.0092	U	1.30		1.20		0.29		0.54	
Benzo(ghi)perylene	390,000	45,000	0.55		7.50		7.30		1.10		11.00		1.30		0.85		0.0092	U	0.64		0.62		0.12		0.28	
Benzo(k)fluoranthene	12,000	580	0.31		7.90		5.40		0.96		12.00		1.40		0.68		0.0092	U	0.64		0.66		0.15		0.22	
Chrysene	120,000	5,800	0.52		12.00		9.40		1.80		24.00		1.90		1.10		0.0092	U	1.10		1.00		0.25		0.42	
Dibenz(a,h)anthracene	120	5.8	0.01	U	0.20	U	0.21	U	0.04	U	2.70		0.04	U	0.02	U	0.0092	U	0.04	U	0.02	U	0.01	U	0.01	U
Fluoranthene	160,000	60,000	0.72		28.00		18.00		3.90		61.00		3.00		2.20		0.0092	U	2.60		2.10		0.59		0.81	
Fluorene	520,000	60,000	0.01	U	1.20		0.30		0.18		2.70		0.04		0.037		0.0092	U	0.16		0.063		0.017		0.023	
Indeno(1,2,3-cd)pyrene	1,200	58	0.46		6.40		6.20		0.95		9.80		1.10		0.72		0.0092	U	0.54		0.54		0.11		0.23	
1-Methylnaphthalene	31,000	1,500	0.01	U	0.20	U	0.21	U	0.04	U	0.45	U	0.04	U	0.02	U	0.0092	U	0.04	U	0.02	U	0.01	U	0.016	
2-Methylnaphthalene	5,200	6,000	0.014		0.22		0.21	U	0.04	U	0.67		0.04	U	0.02	U	0.0092	U	0.054		0.02	U	0.01	U	0.022	
Naphthalene	560	450	0.01	U	0.26		0.21	U	0.054		1.20		0.04	U	0.02	U	0.0092	U	0.055		0.02	U	0.01	U	0.015	
Phenanthrene	1,000,000	450,000	0.18		16.00		6.00		1.70		35.00		0.80		0.74		0.0092	U	1.80		0.93		0.20		0.34	
Pyrene	390,000	45,000	0.54		20.00		13.00		2.80		40.00		2.70		1.70		0.0092	U	1.90		1.60		0.44		0.64	
Polychlorinated Biphenyls (PCB) - mg/kg																										
Arochlor 1016	260	100	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1221	210	14	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1232	73	14	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1242	440	20	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1248	440	20	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1254	75	20	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
Arochlor 1260	440	20	NS		NS		NS		NS		NS		NS		NS		0.046	U	0.043	U	NS		NS		0.043	U
RCRA Metals - mg/kg																										
Arsenic	690	77	NS		NS		NS		NS		NS		NS		NS		10.80		22.20		16.30		9.30		19.10	
Lead	400	800	NS		NS		NS		NS		NS		NS		NS		13.20		24.40		26.60		17.30		19.20	
Barium	-	-	NS		NS		NS		NS		NS		NS		NS		66.20	B	51.00	J	74.50	B	89.70	B	67.30	B
Selenium	11,000	20,000	NS		NS		NS		NS		NS		NS		NS		0.69	U	0.63	U	0.73	U	0.67		0.64	
Cadmium	1,000	2,600	NS		NS		NS		NS		NS		NS		NS		0.14	J	0.03	J	0.26	J	0.11	J	0.18	J
Chromium	1,200	210	NS		NS		NS		NS		NS		NS		NS		15.50		11.80		15.60		13.70		11.80	
Silver	11,000	20,000	NS		NS		NS		NS		NS		NS		NS		1.40	U	1.30	U	1.50	U	1.30	U	0.91	U
Mercury	3.1	3.1	NS		NS		NS		NS		NS		NS		NS		0.1	U	0.02	J	0.029	J	0.029	J	0.031	J
Extractable Petroleum Hydrocarbons - mg/kg																										
C6-C12	5,000*	5,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		0.13	U
C20 - C34	20,000*	20,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		72	
C10 - C20	10,000*	10,000*	NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		NS		17	J
Ethylene glycol - mg/kg	1,000,000	1,000,000	1.79	U	1.48	U	1.17	U	1.19	U	1.63		1.57	U	1.71	U	NS		NS		1.89	U	1.23	U	NS	

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
Highlighted values exceed one or more screening level concentrations
mg/ kg = milligrams per kilogram
All laboratory data provided by Test America Laboratories
* = Ohio BUSTR Tier 1 Action Levels
RCRA = Resource, conservation, and recovery act

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits SVOC - semivolatile organic compounds
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VAP Construction - Ohio VAP generic risk based standard for direct contact exposure by a construction worker specified in OAC 3745-300-08-D (August, 2014)
Direct Contact Ind. - Ohio VAP generic risk based standard for direct contact exposure via an industrial use scenario specified in OAC 3745-300-08-C (August, 2014)

ANALYTICAL TABLE G-8
SUMMARY OF SVOCS IN SURFACE WATER AND BORING GROUND WATER SAMPLES (mg/L)
FORMER MANSFIELD STAMPING PLANT

Sample Location		-		-		-		-		-		IA-2-2		IA-4-3		IA-4-7		IA-5-1		IA-5-2		IA-5-3		IA-5-4		IA-6-1		IA-I0-1		Blank		Blank		Blank		Blank		Blank		Blank	
Sample ID		SW01-LAN-0411		SWDUP0414		SW02-LAN-0411		SW01-SWH-0411		SWDUP1		GW22-FTF-0411		GW43-OLD-0411		GW47-OLD-0411		GW51-LAN-0411		GW52-LAN-0411		GW53-LAN-0411		GW54-LAN-0411		GW61-CSA-0411		GW103-HAZ-0411		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
Sample Date		4/14/2011		4/14/2011		4/14/2011		4/6/2011		4/6/2011		4/8/2011		4/11/2011		4/12/2011		4/6/2011		4/6/2011		4/6/2011		4/6/2011		4/13/2011		4/7/2011		4/6/2011		4/7/2011		4/8/2011		4/11/2011		4/12/2011		4/14/2011		4/28/2011	
Sample Time		1135		1135		1400		933		933		1418		1350		1103		1328		1407		1513		1635		1250		1257		1747		1721		1453		1810		-		1716		-	
	Ohio VAP Generic Unrestricted Potable Use Standards																																								
VOC - mg/L																																									
Acetone	12.000	0.01000	U	0.01000	U	0.01000	U	NS		NS		0.00180	J	0.00720	J	0.00150	J,B	0.01000	U	0.01000	U	0.01000	U	0.01000	U	NS		0.01000	U	0.01000	U	0.01000	U	0.00190	J	0.01300		0.01200	B	0.00960	J	0.00310	J
Benzene	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Bromodichloromethane	0.080	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00017	J	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00310		0.00290		2.70000		0.00100	U	0.00100	U	0.00100	U	0.00100	U
Bromoform	0.080	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Bromomethane	0.007	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
2-Butanone	4.900	0.01000	U	0.01000	U	0.01000	U	NS		NS		0.01000	U	0.00100	J	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	NS		0.01000	U	0.01000	U	0.01000	U	0.00058	J	0.01000	U	0.01000	U	0.01000	U	0.01000	U
Carbon disulfide	0.720	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00043	J	0.01000	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Carbon tetrachloride	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.01000	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Chlorobenzene	0.100	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.01000	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Dibromochloromethane	0.080	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.01000	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00063	J	0.00058	J	0.00056	J	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Chloroethane	21.000	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00037	J	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Chloroform	0.080	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00050	J	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00830		0.00810		0.00860		0.00025	J	0.00021	J	0.00023	J	0.00100	U
Chloromethane	0.190	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
1,2-Dibromo-3-chloro-propane	0.0002	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
1,2-Dibromoethane	0.00005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,2-Dichlorobenzene	0.600	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,3-Dichlorobenzene	NE	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,4-Dichlorobenzene	0.075	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Dichlorodifluoromethane	2.800	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
1,1-Dichloroethane	0.240	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.01400		0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,2-Dichloroethane	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
cis-1,2-Dichloroethene	NE	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
trans-1,2-Dichloroethene	0.100	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00028	J	0.00024	J	0.00100	U
1,1-Dichloroethene	0.007	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00089	J	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,2-Dichloropropane	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
cis-1,3-Dichloropropene	NE	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
trans-1,3-Dichloropropene	NE	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00036	J	0.00100	U	0.00100	U
Ethylbenzene	0.700	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
n-Hexane	0.250	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
2-Hexanone	NE	0.01000	U	0.01000	U	0.01000	U	NS		NS		0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	NS		0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U
Isopropylbenzene	NE	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Methylene chloride	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00950		0.00830		0.00880		0.00100	U
4-Methyl-2-pentanone	1.000	0.01000	U	0.01000	U	0.01000	U	NS		NS		0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	NS		0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U	0.01000	U
Methyl tert-butyl ether	0.120	0.00500	U	0.00500	U	0.00500	U	NS		NS		0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	NS		0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U	0.00500	U
Styrene	0.100	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,1,2,2-Tetrachloroethane	0.00066	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Tetrachloroethene	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Toluene	1.000	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00032	J	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00083	J	0.00092	J	0.00100		0.00052	J	0.00061	J	0.00047	J	0.00100	U
1,2,4-Trichloro-benzene	0.070	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00023	J,B
1,1,1-Trichloroethane	0.200	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.01400		0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
1,1,2-Trichloroethane	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Trichloroethene	0.005	0.00100	U	0.00100	U	0.00100	U	NS		NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	NS		0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U	0.00100	U
Trichlorofluoromethane	1.100	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Vinyl chloride	0.002	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U
Xylenes (total)	10.000	0.00200	U	0.00200	U	0.00200	U	NS		NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	NS		0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U	0.00200	U

Notes:
NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
mg/L = milligrams per liter
All laboratory data provided by Test America Laboratories
Highlighted values exceed one or more screening level concentrations
Standards from OAC 3745-300-08 updated August, 2014

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
VOC = volatile organic compound

ANALYTICAL TABLE G-9
SUMMARY OF PAH, PCBS, RCRA METALS, EXTRACTABLE PETROLEUM HYDROCARBONS, GASOLINE ORGANICS AND ETHYLENE GYLCOL IN SURFACE WATER AND BORING GROUND WATER SAMPLES(mg/L)
FORMER MANSFIELD STAMPING PLANT

Sample Locations		-		-		-		-		-		IA-2-2	IA-4-3		IA-4-7		IA-5-1		IA-5-2		IA-5-3		IA-5-4		IA-6-1		IA-I0-1		-		-		-		-		-		-		-	
Sample ID		SW01-LAN-0411		SWDUP0414		SW02-LAN-0411		SW01-SWH-0411		SWDUP1		GW22-FTF-0411	GW43-OLD-0411		GW47-OLD-0411		GW51-LAN-0411		GW52-LAN-0411		GW53-LAN-0411		GW54-LAN-0411		GW61-CSA-0411		GW103-HAZ-0411		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK		TRIP BLANK	
Sample Date		4/14/2011		4/14/2011		4/14/2011		4/6/2011		4/6/2011		4/8/2011	4/11/2011		4/12/2011		4/6/2011		4/6/2011		4/6/2011		4/6/2011		4/13/2011		4/7/2011		4/6/2011		4/7/2011		4/8/2011		4/11/2011		4/12/2011		4/14/2011		4/28/2011	
Sample Time		1135		1135		1400		933		933		1418	1350		1103		1328		1407		1513		1635		1250		1257		1747		1721		1453		1810		-		1716		-	
	Ohio VAP Generic Unrestricted Potable Use Standards																																								
Polynuclear Aromatic Hydrocarbons (PAH) - mg/L																																									
Acenaphthene	0.40000	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.012		0.00081		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Acenaphthylene	0.40000	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Anthracene	1.30000	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0002	U	0.0011		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Benzo(a)anthracene	0.00092	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.028		0.0016		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Benzo(a)pyrene	0.00020	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.022		0.0012		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Benzo(b)fluoranthene	0.00092	0.0002	U	0.0002	U	0.00067		NS		NS		NS	0.029		0.0017		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Benzo(ghi)perylene	0.08700	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.012		0.00077		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Benzo(k)fluoranthene	0.00920	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.012		0.00074		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Chrysene	0.09200	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.029		0.0018		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Dibenz(a,h)anthracene	0.000092	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0036		0.00022		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Fluoranthene	0.63000	0.0002	U	0.0002	U	0.00024		NS		NS		NS	0.074	E	0.0061		0.0002	U	0.0002		0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Fluorene	0.22000	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0093		0.00063		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Indeno(1,2,3-cd)pyrene	0.00092	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.012		0.00067		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
1-Methylnaphthalene	0.00970	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.023		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
2-Methylnaphthalene	0.02700	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0033		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Naphthalene	0.00140	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.0033		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Phenanthrene	1.30000	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.066	E	0.0056		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Pyrene	0.08700	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	0.06	E	0.0044		0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U	NS	NS	NS	NS	NS	NS	NS					
Polychlorinated Biphenyls (PCB) - mg/L																																									
Arochlor 1016	0.0011	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1221	0.000041	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1232	0.000041	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1242	0.00034	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1248	0.00034	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0011		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0001	J	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1254	0.00031	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
Arochlor 1260	0.00034	NS		NS		NS		0.0005	U	0.0005	U	NS	NS		0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U	NS	NS	NS	NS	NS	NS	NS					
RCRA Metals - mg/L																																									
Arsenic	0.010	0.0100	U	0.0100	U	0.01000	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Lead	0.015	0.0030	U	0.0030	U	0.00300	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Barium	NE	0.0474	J,B	0.0460	J,B	0.04690	J,B	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Selenium	0.050	0.0050	U	0.0050	U	0.00500	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Cadmium	0.005	0.0040	U	0.0040	U	0.00400	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Chromium	0.100	0.0100	U	0.0100	U	0.01000	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Silver	0.071	0.0100	U	0.0100	U	0.01000	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Mercury	0.002	0.0002	U	0.0002	U	0.00020	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					
Gasoline Range Organics- mg/L		NS		NS		NS		NS		NS		NS	NS		0.048	J	NS		NS		NS		NS		0.0500	J	NS		NS	NS	NS	NS	NS	NS	NS					
Extractable Petroleum Hydrocarbons - mg/L																																									
C20 - C34	NE	NS		NS		NS		NS		NS		NS	2.1		NS		NS		NS		NS		NS		0.3700	J	NS		NS	NS	NS	NS	NS	NS	NS					
C10 - C20	NE	NS		NS		NS		NS		NS		NS	0.65		NS		NS		NS		NS		NS		0.5000	U	NS		NS	NS	NS	NS	NS	NS	NS					
Ethylene glycol - mg/L	31	0.2710	U	0.2710	U	0.27100	U	NS		NS		NS	NS		NS		NS		NS		NS		NS		NS		NS		NS	NS	NS	NS	NS	NS	NS					

Notes:

NS = Not sampled
U = indicates analyte not detected at indicated reporting limit (RL)
Highlighted values exceed one or more screening level concentrations
mg/L = milligrams per liter
All laboratory data provided by Test America Laboratories
* = Ohio BUSTR Tier 1 Action Levels
NE = no screening level standard has been established

J - value qualified due to concentration being below quantitation limit, or due to QA/QC data outside of control limits
B - value qualified due to detection of analyte in one or more associated laboratory blanks
VAP - Ohio Voluntary Action Program
RCRA - Resource, conservation, and recovery act
Standards from OAC 3745-300-08 updated August, 2014

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-25766-1
Client Project/Site: OVAP Mansfield Stamping Plant / Racer

For:
Tetra Tech EM Inc.
250 W Court Street
Suite 200 W
Cincinnati, Ohio 45202

Attn: Ms. Vicky Farmer

Authorized for release by:
6/30/2013 12:56:37 PM

John McFadden, Project Manager I
john.mcfadden@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
*	LCS or LCSD exceeds the control limits
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-25766-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Tetra Tech EM Inc.

Project: OVAP Mansfield Stamping Plant / Racer

Report Number: 240-25766-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable.

A summary of QC data for these analyses is included at the back of the report.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 06/15/2013; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 0.9 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SB1-4-0613 (240-25766-1), SB2-4-0613 (240-25766-2), SB3-4-0613 (240-25766-3), SB4-3-0613 (240-25766-4), SB4-8-0613 (240-25766-5), SB5-3-0613 (240-25766-6), SB6-4-0613 (240-25766-7), SB7-4-0613 (240-25766-8), SB8-4-0613 (240-25766-9), SB9-6-0613 (240-25766-10), SB10-4-0613 (240-25766-11), SB11-3-0613 (240-25766-12), SB12-3-0613 (240-25766-13), SB13-4-0613 (240-25766-14), SB14-3-0613 (240-25766-15), SB15-4-0613 (240-25766-16), SB16-3-0613 (240-25766-17), SB17-3-0613 (240-25766-18), SB18-4-0613 (240-25766-19), SB19-5-0613 (240-25766-20), SB20-2-0613 (240-25766-21), SB21-3-0613 (240-25766-22), SB22-3-0613 (240-25766-23), SB23-4-0613 (240-25766-24), SB24-4-0613 (240-25766-25), SB25-3-0613 (240-25766-26), SB26-2-0613 (240-25766-27), SB27-1-0613 (240-25766-28), SB28-3-0613 (240-25766-29), SB29-3-0613 (240-25766-30), SB30-3-0613 (240-25766-31), SB30-9-0613 (240-25766-32), SB31-4-0613 (240-25766-33) and SB32-1-0613 (240-25766-34) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260A. The samples were analyzed on 06/21/2013, 06/24/2013 and 06/26/2013.

Job ID: 240-25766-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Internal standard responses were outside of acceptance limits for the following samples: SB2-4-0613 (240-25766-2), SB6-4-0613 (240-25766-7). The samples shows evidence of matrix interference.

The laboratory control sample (LCS) for batch 90776 recovered outside control limits for the following analytes: Carbon Tetrachloride. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Samples SB2-4-0613 (240-25766-2), SB6-4-0613 (240-25766-7)were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

Sample SB10-4-0613 (240-25766-11) was reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

No other difficulties were encountered during the VOCs analysis. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SB1-4-0613 (240-25766-1), SB2-4-0613 (240-25766-2), SB3-4-0613 (240-25766-3), SB4-3-0613 (240-25766-4), SB4-8-0613 (240-25766-5), SB5-3-0613 (240-25766-6), SB6-4-0613 (240-25766-7), SB7-4-0613 (240-25766-8), SB8-4-0613 (240-25766-9), SB9-6-0613 (240-25766-10), SB10-4-0613 (240-25766-11), SB11-3-0613 (240-25766-12), SB12-3-0613 (240-25766-13), SB13-4-0613 (240-25766-14), SB14-3-0613 (240-25766-15), SB15-4-0613 (240-25766-16), SB16-3-0613 (240-25766-17), SB17-3-0613 (240-25766-18), SB18-4-0613 (240-25766-19), SB19-5-0613 (240-25766-20), SB20-2-0613 (240-25766-21), SB21-3-0613 (240-25766-22), SB22-3-0613 (240-25766-23), SB23-4-0613 (240-25766-24), SB24-4-0613 (240-25766-25), SB25-3-0613 (240-25766-26), SB26-2-0613 (240-25766-27), SB27-1-0613 (240-25766-28), SB28-3-0613 (240-25766-29), SB29-3-0613 (240-25766-30), SB30-3-0613 (240-25766-31), SB30-9-0613 (240-25766-32), SB31-4-0613 (240-25766-33) and SB32-1-0613 (240-25766-34) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 06/19/2013.

Percent Moisture exceeded the RPD limit for the duplicate of sample SB10-4-0613DU (240-25766-11). Percent Moisture exceeded the RPD limit for the duplicate of sample SB30-3-0613DU (240-25766-31).

No other difficulties were encountered during the % solids analysis. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Method	Method Description	Protocol	Laboratory
8260A	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
Moisture	Percent Moisture	EPA	TAL CAN

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-25766-1	SB1-4-0613	Solid	06/13/13 10:15	06/15/13 12:40
240-25766-2	SB2-4-0613	Solid	06/13/13 10:40	06/15/13 12:40
240-25766-3	SB3-4-0613	Solid	06/13/13 11:05	06/15/13 12:40
240-25766-4	SB4-3-0613	Solid	06/13/13 11:30	06/15/13 12:40
240-25766-5	SB4-8-0613	Solid	06/13/13 11:35	06/15/13 12:40
240-25766-6	SB5-3-0613	Solid	06/13/13 11:55	06/15/13 12:40
240-25766-7	SB6-4-0613	Solid	06/13/13 12:55	06/15/13 12:40
240-25766-8	SB7-4-0613	Solid	06/13/13 13:15	06/15/13 12:40
240-25766-9	SB8-4-0613	Solid	06/13/13 13:45	06/15/13 12:40
240-25766-10	SB9-6-0613	Solid	06/13/13 14:10	06/15/13 12:40
240-25766-11	SB10-4-0613	Solid	06/13/13 14:50	06/15/13 12:40
240-25766-12	SB11-3-0613	Solid	06/13/13 15:10	06/15/13 12:40
240-25766-13	SB12-3-0613	Solid	06/13/13 15:30	06/15/13 12:40
240-25766-14	SB13-4-0613	Solid	06/13/13 15:55	06/15/13 12:40
240-25766-15	SB14-3-0613	Solid	06/13/13 16:15	06/15/13 12:40
240-25766-16	SB15-4-0613	Solid	06/13/13 16:45	06/15/13 12:40
240-25766-17	SB16-3-0613	Solid	06/14/13 07:35	06/15/13 12:40
240-25766-18	SB17-3-0613	Solid	06/14/13 07:50	06/15/13 12:40
240-25766-19	SB18-4-0613	Solid	06/14/13 08:05	06/15/13 12:40
240-25766-20	SB19-5-0613	Solid	06/14/13 08:20	06/15/13 12:40
240-25766-21	SB20-2-0613	Solid	06/14/13 08:40	06/15/13 12:40
240-25766-22	SB21-3-0613	Solid	06/14/13 08:55	06/15/13 12:40
240-25766-23	SB22-3-0613	Solid	06/14/13 09:10	06/15/13 12:40
240-25766-24	SB23-4-0613	Solid	06/14/13 09:25	06/15/13 12:40
240-25766-25	SB24-4-0613	Solid	06/14/13 09:35	06/15/13 12:40
240-25766-26	SB25-3-0613	Solid	06/14/13 09:55	06/15/13 12:40
240-25766-27	SB26-2-0613	Solid	06/14/13 10:30	06/15/13 12:40
240-25766-28	SB27-1-0613	Solid	06/14/13 10:40	06/15/13 12:40
240-25766-29	SB28-3-0613	Solid	06/14/13 10:50	06/15/13 12:40
240-25766-30	SB29-3-0613	Solid	06/14/13 11:05	06/15/13 12:40
240-25766-31	SB30-3-0613	Solid	06/14/13 11:20	06/15/13 12:40
240-25766-32	SB30-9-0613	Solid	06/14/13 11:20	06/15/13 12:40
240-25766-33	SB31-4-0613	Solid	06/14/13 11:30	06/15/13 12:40
240-25766-34	SB32-1-0613	Solid	06/14/13 11:45	06/15/13 12:40

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB1-4-0613 — Lab Sample ID: 240-25766-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	46		22		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB2-4-0613 — Lab Sample ID: 240-25766-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	98		23		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	11		5.8		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB3-4-0613 — Lab Sample ID: 240-25766-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	49		25		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB4-3-0613 — Lab Sample ID: 240-25766-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	92		24		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	7.2		5.9		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB4-8-0613 — Lab Sample ID: 240-25766-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	62		24		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB5-3-0613 — Lab Sample ID: 240-25766-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	95		22		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB6-4-0613 — Lab Sample ID: 240-25766-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		24		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	8.9		6.1		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB7-4-0613 — Lab Sample ID: 240-25766-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	48		23		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB8-4-0613 — Lab Sample ID: 240-25766-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	290		23		ug/Kg	1	☼	8260A	Total/NA
2-Butanone (MEK)	41		23		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	9.0		5.7		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB9-6-0613 — Lab Sample ID: 240-25766-10

This Detection Summary does not include radiochemical test results.

Client Sample ID: SB9-6-0613 (Continued) — Lab Sample ID: 240-25766-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	100		25		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB10-4-0613 — Lab Sample ID: 240-25766-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	780		48		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	21		12		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB11-3-0613 — Lab Sample ID: 240-25766-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	5.9		5.9		ug/Kg	1	☼	8260A	Total/NA
Xylenes, Total	10		5.9		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB12-3-0613 — Lab Sample ID: 240-25766-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	37		16		ug/Kg	1	☼	8260A	Total/NA
Xylenes, Total	49		16		ug/Kg	1	☼	8260A	Total/NA
Ethylbenzene	31		16		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB13-4-0613 — Lab Sample ID: 240-25766-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	69		23		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB14-3-0613 — Lab Sample ID: 240-25766-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	77		23		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB15-4-0613 — Lab Sample ID: 240-25766-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	180		27		ug/Kg	1	☼	8260A	Total/NA
2-Butanone (MEK)	28		27		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB16-3-0613 — Lab Sample ID: 240-25766-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	16		6.8		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB17-3-0613 — Lab Sample ID: 240-25766-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	8.9		7.1		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB18-4-0613 — Lab Sample ID: 240-25766-19

No Detections.

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB19-5-0613 — Lab Sample ID: 240-25766-20

No Detections.

Client Sample ID: SB20-2-0613 — Lab Sample ID: 240-25766-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	14		6.2		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB21-3-0613 — Lab Sample ID: 240-25766-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	12		6.5		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB22-3-0613 — Lab Sample ID: 240-25766-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	37		23		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB23-4-0613 — Lab Sample ID: 240-25766-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	320		25		ug/Kg	1	☼	8260A	Total/NA
2-Butanone (MEK)	34		25		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	17		6.2		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB24-4-0613 — Lab Sample ID: 240-25766-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	310		23		ug/Kg	1	☼	8260A	Total/NA
2-Butanone (MEK)	51		23		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	18		5.8		ug/Kg	1	☼	8260A	Total/NA
Xylenes, Total	23		5.8		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB25-3-0613 — Lab Sample ID: 240-25766-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	7.9		6.4		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB26-2-0613 — Lab Sample ID: 240-25766-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	29		23		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	9.3		5.7		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB27-1-0613 — Lab Sample ID: 240-25766-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	20		5.8		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB28-3-0613 — Lab Sample ID: 240-25766-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	11		5.8		ug/Kg	1	☼	8260A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB29-3-0613 — Lab Sample ID: 240-25766-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	73		22		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	5.5		5.4		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB30-3-0613 — Lab Sample ID: 240-25766-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	8.1		5.2		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB30-9-0613 — Lab Sample ID: 240-25766-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	47		24		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	6.6		6.0		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB31-4-0613 — Lab Sample ID: 240-25766-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.1		2.8		ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	13		5.7		ug/Kg	1	☼	8260A	Total/NA
Trichloroethene	100		5.7		ug/Kg	1	☼	8260A	Total/NA

Client Sample ID: SB32-1-0613 — Lab Sample ID: 240-25766-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	10		5.6		ug/Kg	1	☼	8260A	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB1-4-0613
Date Collected: 06/13/13 10:15
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	46		22		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Benzene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Bromodichloromethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Bromoform	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Bromomethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Carbon disulfide	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Carbon tetrachloride	5.5	U *	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Chlorobenzene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Dibromochloromethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Chloroethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Chloroform	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Chloromethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,1-Dichloroethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,2-Dichloroethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,1-Dichloroethene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,2-Dichloropropane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
cis-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
trans-1,3-Dichloropropene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
2-Hexanone	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Methylene Chloride	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Methyl tert-butyl ether	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Styrene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,1,2,2-Tetrachloroethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Tetrachloroethene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Toluene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,1,1-Trichloroethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
1,1,2-Trichloroethane	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Trichloroethene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Xylenes, Total	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1
Ethylbenzene	5.5	U	5.5		ug/Kg	☼	06/21/13 09:01	06/21/13 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*118*		*39 - 128*	*06/21/13 09:01*	*06/21/13 10:28*	*1*
Toluene-d8 (Surr)	*102*		*33 - 134*	*06/21/13 09:01*	*06/21/13 10:28*	*1*
4-Bromofluorobenzene (Surr)	*104*		*26 - 141*	*06/21/13 09:01*	*06/21/13 10:28*	*1*
Dibromofluoromethane (Surr)	*109*		*37 - 122*	*06/21/13 09:01*	*06/21/13 10:28*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB2-4-0613
Date Collected: 06/13/13 10:40
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-2
Matrix: Solid
Percent Solids: 83.0

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**98**		23		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Benzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Bromodichloromethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Bromoform	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Carbon tetrachloride	5.8	U *	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Dibromochloromethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Chloroform	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
2-Hexanone	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Methylene Chloride	**11**		5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Methyl tert-butyl ether	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Styrene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,1,2,2-Tetrachloroethane	57	U	57		ug/Kg	☼	06/24/13 12:45	06/24/13 20:34	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Toluene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 10:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*39 - 128*	*06/21/13 09:01*	*06/21/13 10:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*39 - 128*	*06/24/13 12:45*	*06/24/13 20:34*	*1*
Toluene-d8 (Surr)	*123*		*33 - 134*	*06/21/13 09:01*	*06/21/13 10:52*	*1*
Toluene-d8 (Surr)	*105*		*33 - 134*	*06/24/13 12:45*	*06/24/13 20:34*	*1*
4-Bromofluorobenzene (Surr)	*125*		*26 - 141*	*06/21/13 09:01*	*06/21/13 10:52*	*1*
4-Bromofluorobenzene (Surr)	*114*		*26 - 141*	*06/24/13 12:45*	*06/24/13 20:34*	*1*
Dibromofluoromethane (Surr)	*106*		*37 - 122*	*06/21/13 09:01*	*06/21/13 10:52*	*1*
Dibromofluoromethane (Surr)	*96*		*37 - 122*	*06/24/13 12:45*	*06/24/13 20:34*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB3-4-0613
Date Collected: 06/13/13 11:05
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-3
Matrix: Solid
Percent Solids: 79.2

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	49		25		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Benzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Bromodichloromethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Bromoform	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Bromomethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
2-Butanone (MEK)	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Carbon disulfide	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Carbon tetrachloride	6.3	U *	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Chlorobenzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Dibromochloromethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Chloroethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Chloroform	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Chloromethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,1-Dichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,2-Dichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,1-Dichloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,2-Dichloropropane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
cis-1,3-Dichloropropene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
trans-1,3-Dichloropropene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
2-Hexanone	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Methylene Chloride	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Methyl tert-butyl ether	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Styrene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,1,2,2-Tetrachloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Tetrachloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Toluene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,1,1-Trichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
1,1,2-Trichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Trichloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Vinyl chloride	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Xylenes, Total	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1
Ethylbenzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 11:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*	*06/21/13 09:01*	*06/21/13 11:15*	*1*
Toluene-d8 (Surr)	*104*		*33 - 134*	*06/21/13 09:01*	*06/21/13 11:15*	*1*
4-Bromofluorobenzene (Surr)	*102*		*26 - 141*	*06/21/13 09:01*	*06/21/13 11:15*	*1*
Dibromofluoromethane (Surr)	*103*		*37 - 122*	*06/21/13 09:01*	*06/21/13 11:15*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB4-3-0613
Date Collected: 06/13/13 11:30
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-4
Matrix: Solid
Percent Solids: 81.6

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**92**		24		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Benzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Bromodichloromethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Bromoform	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Carbon tetrachloride	5.9	U *	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Dibromochloromethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Chloroform	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
2-Hexanone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Methylene Chloride	**7.2**		5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Methyl tert-butyl ether	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Styrene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Toluene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Xylenes, Total	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*39 - 128*	*06/21/13 09:01*	*06/21/13 11:39*	*1*
Toluene-d8 (Surr)	*98*		*33 - 134*	*06/21/13 09:01*	*06/21/13 11:39*	*1*
4-Bromofluorobenzene (Surr)	*101*		*26 - 141*	*06/21/13 09:01*	*06/21/13 11:39*	*1*
Dibromofluoromethane (Surr)	*104*		*37 - 122*	*06/21/13 09:01*	*06/21/13 11:39*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB4-8-0613
Date Collected: 06/13/13 11:35
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-5
Matrix: Solid
Percent Solids: 81.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	62		24		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Benzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Bromodichloromethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Bromoform	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Carbon disulfide	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Carbon tetrachloride	6.0	U *	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Chlorobenzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Dibromochloromethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Chloroform	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,1-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,2-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,1-Dichloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
cis-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
trans-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
2-Hexanone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Methylene Chloride	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Methyl tert-butyl ether	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Styrene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Tetrachloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Toluene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,1,1-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
1,1,2-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Trichloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Xylenes, Total	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1
Ethylbenzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 12:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*39 - 128*	*06/21/13 09:01*	*06/21/13 12:50*	*1*
Toluene-d8 (Surr)	*101*		*33 - 134*	*06/21/13 09:01*	*06/21/13 12:50*	*1*
4-Bromofluorobenzene (Surr)	*100*		*26 - 141*	*06/21/13 09:01*	*06/21/13 12:50*	*1*
Dibromofluoromethane (Surr)	*99*		*37 - 122*	*06/21/13 09:01*	*06/21/13 12:50*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB5-3-0613
Date Collected: 06/13/13 11:55
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-6
Matrix: Solid
Percent Solids: 85.5

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	95		22		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Benzene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Bromodichloromethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Bromoform	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Bromomethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Carbon disulfide	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Carbon tetrachloride	5.6	U *	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Chlorobenzene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Dibromochloromethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Chloroethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Chloroform	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Chloromethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,1-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,2-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,1-Dichloroethene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
cis-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
trans-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
2-Hexanone	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Methylene Chloride	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Methyl tert-butyl ether	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Styrene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,1,2,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Tetrachloroethene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Toluene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,1,1-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
1,1,2-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Trichloroethene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Xylenes, Total	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1
Ethylbenzene	5.6	U	5.6		ug/Kg	☼	06/21/13 09:01	06/21/13 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*39 - 128*	*06/21/13 09:01*	*06/21/13 13:14*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/21/13 09:01*	*06/21/13 13:14*	*1*
4-Bromofluorobenzene (Surr)	*116*		*26 - 141*	*06/21/13 09:01*	*06/21/13 13:14*	*1*
Dibromofluoromethane (Surr)	*100*		*37 - 122*	*06/21/13 09:01*	*06/21/13 13:14*	*1*

Client Sample ID: SB6-4-0613
Date Collected: 06/13/13 12:55
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-7
Matrix: Solid
Percent Solids: 78.0

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**100**		24		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Benzene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Bromodichloromethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Bromoform	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Carbon disulfide	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Carbon tetrachloride	6.1	U *	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Chlorobenzene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Dibromochloromethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Chloroform	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,1-Dichloroethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,2-Dichloroethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,1-Dichloroethene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,2-Dichloropropane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
cis-1,3-Dichloropropene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
trans-1,3-Dichloropropene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
2-Hexanone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Methylene Chloride	**8.9**		6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Methyl tert-butyl ether	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Styrene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,1,2,2-Tetrachloroethane	62	U	62		ug/Kg	☼	06/24/13 12:45	06/24/13 22:33	1
Tetrachloroethene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Toluene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,1,1-Trichloroethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
1,1,2-Trichloroethane	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Trichloroethene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Xylenes, Total	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1
Ethylbenzene	6.1	U	6.1		ug/Kg	☼	06/21/13 09:01	06/21/13 13:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*114*		*39 - 128*	*06/21/13 09:01*	*06/21/13 13:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*39 - 128*	*06/24/13 12:45*	*06/24/13 22:33*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/21/13 09:01*	*06/21/13 13:37*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/24/13 12:45*	*06/24/13 22:33*	*1*
4-Bromofluorobenzene (Surr)	*126*		*26 - 141*	*06/21/13 09:01*	*06/21/13 13:37*	*1*
4-Bromofluorobenzene (Surr)	*114*		*26 - 141*	*06/24/13 12:45*	*06/24/13 22:33*	*1*
Dibromofluoromethane (Surr)	*103*		*37 - 122*	*06/21/13 09:01*	*06/21/13 13:37*	*1*
Dibromofluoromethane (Surr)	*106*		*37 - 122*	*06/24/13 12:45*	*06/24/13 22:33*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB7-4-0613
Date Collected: 06/13/13 13:15
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-8
Matrix: Solid
Percent Solids: 80.0

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	48		23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Benzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Bromodichloromethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Bromoform	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Carbon tetrachloride	5.8	U *	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Dibromochloromethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Chloroform	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
2-Hexanone	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Methylene Chloride	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Methyl tert-butyl ether	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Styrene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Toluene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	06/21/13 09:01	06/21/13 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*	*06/21/13 09:01*	*06/21/13 14:01*	*1*
Toluene-d8 (Surr)	*99*		*33 - 134*	*06/21/13 09:01*	*06/21/13 14:01*	*1*
4-Bromofluorobenzene (Surr)	*103*		*26 - 141*	*06/21/13 09:01*	*06/21/13 14:01*	*1*
Dibromofluoromethane (Surr)	*102*		*37 - 122*	*06/21/13 09:01*	*06/21/13 14:01*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB8-4-0613
Date Collected: 06/13/13 13:45
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-9
Matrix: Solid
Percent Solids: 83.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**290**		23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Benzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Bromodichloromethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Bromoform	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Bromomethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
2-Butanone (MEK)	**41**		23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Carbon tetrachloride	5.7	U *	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Dibromochloromethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Chloroethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Chloroform	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Chloromethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
2-Hexanone	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Methylene Chloride	**9.0**		5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Methyl tert-butyl ether	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Styrene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Toluene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Trichloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*110*		*39 - 128*	*06/21/13 09:01*	*06/21/13 14:25*	*1*
Toluene-d8 (Surr)	*103*		*33 - 134*	*06/21/13 09:01*	*06/21/13 14:25*	*1*
4-Bromofluorobenzene (Surr)	*115*		*26 - 141*	*06/21/13 09:01*	*06/21/13 14:25*	*1*
Dibromofluoromethane (Surr)	*105*		*37 - 122*	*06/21/13 09:01*	*06/21/13 14:25*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB9-6-0613
Date Collected: 06/13/13 14:10
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-10
Matrix: Solid
Percent Solids: 79.2

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	100		25		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Benzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Bromodichloromethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Bromoform	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Bromomethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
2-Butanone (MEK)	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Carbon disulfide	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Carbon tetrachloride	6.3	U *	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Chlorobenzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Dibromochloromethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Chloroethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Chloroform	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Chloromethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,1-Dichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,2-Dichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,1-Dichloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,2-Dichloropropane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
cis-1,3-Dichloropropene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
trans-1,3-Dichloropropene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
2-Hexanone	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Methylene Chloride	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Methyl tert-butyl ether	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Styrene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,1,2,2-Tetrachloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Tetrachloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Toluene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,1,1-Trichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
1,1,2-Trichloroethane	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Trichloroethene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Vinyl chloride	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Xylenes, Total	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1
Ethylbenzene	6.3	U	6.3		ug/Kg	☼	06/21/13 09:01	06/21/13 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*39 - 128*	*06/21/13 09:01*	*06/21/13 14:49*	*1*
Toluene-d8 (Surr)	*100*		*33 - 134*	*06/21/13 09:01*	*06/21/13 14:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*26 - 141*	*06/21/13 09:01*	*06/21/13 14:49*	*1*
Dibromofluoromethane (Surr)	*103*		*37 - 122*	*06/21/13 09:01*	*06/21/13 14:49*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB10-4-0613
Date Collected: 06/13/13 14:50
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-11
Matrix: Solid
Percent Solids: 82.3

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**780**		48		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Benzene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Bromodichloromethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Bromoform	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Bromomethane	24	U	24		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
2-Butanone (MEK)	48	U	48		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Carbon disulfide	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Carbon tetrachloride	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Chlorobenzene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Dibromochloromethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Chloroethane	24	U	24		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Chloroform	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Chloromethane	24	U	24		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,1-Dichloroethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,2-Dichloroethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
cis-1,2-Dichloroethene	6.0	U	6.0		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
trans-1,2-Dichloroethene	6.0	U	6.0		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,1-Dichloroethene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,2-Dichloropropane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
cis-1,3-Dichloropropene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
trans-1,3-Dichloropropene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
2-Hexanone	48	U	48		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Methylene Chloride	**21**		12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
4-Methyl-2-pentanone (MIBK)	48	U	48		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Methyl tert-butyl ether	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Styrene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,1,2,2-Tetrachloroethane	61	U	61		ug/Kg	☼	06/26/13 04:59	06/26/13 11:43	1
Tetrachloroethene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Toluene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,1,1-Trichloroethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
1,1,2-Trichloroethane	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Trichloroethene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Vinyl chloride	24	U	24		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Xylenes, Total	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1
Ethylbenzene	12	U	12		ug/Kg	☼	06/26/13 02:31	06/26/13 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*84*		*39 - 128*	*06/26/13 02:31*	*06/26/13 03:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*39 - 128*	*06/26/13 04:59*	*06/26/13 11:43*	*1*
Toluene-d8 (Surr)	*108*		*33 - 134*	*06/26/13 02:31*	*06/26/13 03:34*	*1*
Toluene-d8 (Surr)	*92*		*33 - 134*	*06/26/13 04:59*	*06/26/13 11:43*	*1*
4-Bromofluorobenzene (Surr)	*74*		*26 - 141*	*06/26/13 02:31*	*06/26/13 03:34*	*1*
4-Bromofluorobenzene (Surr)	*90*		*26 - 141*	*06/26/13 04:59*	*06/26/13 11:43*	*1*
Dibromofluoromethane (Surr)	*89*		*37 - 122*	*06/26/13 02:31*	*06/26/13 03:34*	*1*
Dibromofluoromethane (Surr)	*91*		*37 - 122*	*06/26/13 04:59*	*06/26/13 11:43*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB11-3-0613
Date Collected: 06/13/13 15:10
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-12
Matrix: Solid
Percent Solids: 83.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Benzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Bromodichloromethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Bromoform	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Carbon disulfide	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Carbon tetrachloride	5.9	U *	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Chlorobenzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Dibromochloromethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Chloroform	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,1-Dichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,2-Dichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,1-Dichloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,2-Dichloropropane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
cis-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
trans-1,3-Dichloropropene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
2-Hexanone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Methylene Chloride	**5.9**		5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Methyl tert-butyl ether	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Styrene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Tetrachloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Toluene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,1,1-Trichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
1,1,2-Trichloroethane	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Trichloroethene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Xylenes, Total	**10**		5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1
Ethylbenzene	5.9	U	5.9		ug/Kg	☼	06/21/13 09:01	06/21/13 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*39 - 128*	*06/21/13 09:01*	*06/21/13 15:36*	*1*
Toluene-d8 (Surr)	*114*		*33 - 134*	*06/21/13 09:01*	*06/21/13 15:36*	*1*
4-Bromofluorobenzene (Surr)	*114*		*26 - 141*	*06/21/13 09:01*	*06/21/13 15:36*	*1*
Dibromofluoromethane (Surr)	*96*		*37 - 122*	*06/21/13 09:01*	*06/21/13 15:36*	*1*

Client Sample ID: SB12-3-0613
Date Collected: 06/13/13 15:30
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-13
Matrix: Solid
Percent Solids: 78.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	64	U	64		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Benzene	**37**		16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Bromodichloromethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Bromoform	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Bromomethane	32	U	32		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
2-Butanone (MEK)	64	U	64		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Carbon disulfide	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Carbon tetrachloride	16	U *	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Chlorobenzene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Dibromochloromethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Chloroethane	32	U	32		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Chloroform	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Chloromethane	32	U	32		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,1-Dichloroethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,2-Dichloroethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
cis-1,2-Dichloroethene	8.0	U	8.0		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
trans-1,2-Dichloroethene	8.0	U	8.0		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,1-Dichloroethene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,2-Dichloropropane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
cis-1,3-Dichloropropene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
trans-1,3-Dichloropropene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
2-Hexanone	64	U	64		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Methylene Chloride	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
4-Methyl-2-pentanone (MIBK)	64	U	64		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Methyl tert-butyl ether	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Styrene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,1,2,2-Tetrachloroethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Tetrachloroethene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Toluene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,1,1-Trichloroethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
1,1,2-Trichloroethane	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Trichloroethene	16	U	16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Vinyl chloride	32	U	32		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Xylenes, Total	**49**		16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1
Ethylbenzene	**31**		16		ug/Kg	☼	06/21/13 09:01	06/21/13 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*39 - 128*	*06/21/13 09:01*	*06/21/13 15:59*	*1*
Toluene-d8 (Surr)	*116*		*33 - 134*	*06/21/13 09:01*	*06/21/13 15:59*	*1*
4-Bromofluorobenzene (Surr)	*125*		*26 - 141*	*06/21/13 09:01*	*06/21/13 15:59*	*1*
Dibromofluoromethane (Surr)	*101*		*37 - 122*	*06/21/13 09:01*	*06/21/13 15:59*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB13-4-0613
Date Collected: 06/13/13 15:55
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-14
Matrix: Solid
Percent Solids: 84.9

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	69		23		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Benzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Bromodichloromethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Bromoform	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Bromomethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Carbon tetrachloride	5.7	U *	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Dibromochloromethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Chloroethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Chloroform	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Chloromethane	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
2-Hexanone	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Methylene Chloride	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Methyl tert-butyl ether	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Styrene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Toluene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Trichloroethene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	06/21/13 09:01	06/21/13 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*39 - 128*	*06/21/13 09:01*	*06/21/13 16:23*	*1*
Toluene-d8 (Surr)	*111*		*33 - 134*	*06/21/13 09:01*	*06/21/13 16:23*	*1*
4-Bromofluorobenzene (Surr)	*127*		*26 - 141*	*06/21/13 09:01*	*06/21/13 16:23*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/21/13 09:01*	*06/21/13 16:23*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB14-3-0613
Date Collected: 06/13/13 16:15
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-15
Matrix: Solid
Percent Solids: 86.2

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	77		23		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Benzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Bromodichloromethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Bromoform	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Bromomethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Carbon tetrachloride	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Dibromochloromethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Chloroethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Chloroform	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Chloromethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
2-Hexanone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Methylene Chloride	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Methyl tert-butyl ether	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Styrene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Toluene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Trichloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 21:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*115*		*39 - 128*	*06/24/13 12:45*	*06/24/13 21:45*	*1*
Toluene-d8 (Surr)	*106*		*33 - 134*	*06/24/13 12:45*	*06/24/13 21:45*	*1*
4-Bromofluorobenzene (Surr)	*103*		*26 - 141*	*06/24/13 12:45*	*06/24/13 21:45*	*1*
Dibromofluoromethane (Surr)	*101*		*37 - 122*	*06/24/13 12:45*	*06/24/13 21:45*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB15-4-0613
Date Collected: 06/13/13 16:45
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-16
Matrix: Solid
Percent Solids: 72.9

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**180**		27		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Benzene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Bromodichloromethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Bromoform	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Bromomethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
2-Butanone (MEK)	**28**		27		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Carbon disulfide	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Carbon tetrachloride	6.8	U *	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Chlorobenzene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Dibromochloromethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Chloroethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Chloroform	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Chloromethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,1-Dichloroethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,2-Dichloroethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
cis-1,2-Dichloroethene	3.4	U	3.4		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
trans-1,2-Dichloroethene	3.4	U	3.4		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,1-Dichloroethene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,2-Dichloropropane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
cis-1,3-Dichloropropene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
trans-1,3-Dichloropropene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
2-Hexanone	27	U	27		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Methylene Chloride	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
4-Methyl-2-pentanone (MIBK)	27	U	27		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Methyl tert-butyl ether	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Styrene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,1,2,2-Tetrachloroethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Tetrachloroethene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Toluene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,1,1-Trichloroethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
1,1,2-Trichloroethane	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Trichloroethene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Vinyl chloride	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Xylenes, Total	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1
Ethylbenzene	6.8	U	6.8		ug/Kg	☼	06/21/13 09:01	06/21/13 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*39 - 128*	*06/21/13 09:01*	*06/21/13 17:10*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/21/13 09:01*	*06/21/13 17:10*	*1*
4-Bromofluorobenzene (Surr)	*115*		*26 - 141*	*06/21/13 09:01*	*06/21/13 17:10*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/21/13 09:01*	*06/21/13 17:10*	*1*

Client Sample ID: SB16-3-0613
Date Collected: 06/14/13 07:35
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-17
Matrix: Solid
Percent Solids: 71.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	27	U	27		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Benzene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Bromodichloromethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Bromoform	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Bromomethane	14	U	14		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
2-Butanone (MEK)	27	U	27		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Carbon disulfide	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Carbon tetrachloride	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Chlorobenzene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Dibromochloromethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Chloroethane	14	U	14		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Chloroform	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Chloromethane	14	U	14		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,1-Dichloroethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,2-Dichloroethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
cis-1,2-Dichloroethene	3.4	U	3.4		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
trans-1,2-Dichloroethene	3.4	U	3.4		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,1-Dichloroethene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,2-Dichloropropane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
cis-1,3-Dichloropropene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
trans-1,3-Dichloropropene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
2-Hexanone	27	U	27		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Methylene Chloride	**16**		6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
4-Methyl-2-pentanone (MIBK)	27	U	27		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Methyl tert-butyl ether	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Styrene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,1,2,2-Tetrachloroethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Tetrachloroethene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Toluene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,1,1-Trichloroethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
1,1,2-Trichloroethane	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Trichloroethene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Vinyl chloride	14	U	14		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Xylenes, Total	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1
Ethylbenzene	6.8	U	6.8		ug/Kg	☼	06/24/13 12:45	06/24/13 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*39 - 128*	*06/24/13 12:45*	*06/24/13 22:09*	*1*
Toluene-d8 (Surr)	*122*		*33 - 134*	*06/24/13 12:45*	*06/24/13 22:09*	*1*
4-Bromofluorobenzene (Surr)	*107*		*26 - 141*	*06/24/13 12:45*	*06/24/13 22:09*	*1*
Dibromofluoromethane (Surr)	*99*		*37 - 122*	*06/24/13 12:45*	*06/24/13 22:09*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB17-3-0613
Date Collected: 06/14/13 07:50
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-18
Matrix: Solid
Percent Solids: 70.3

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	28	U	28		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Benzene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Bromodichloromethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Bromoform	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Bromomethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
2-Butanone (MEK)	28	U	28		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Carbon disulfide	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Carbon tetrachloride	7.1	U *	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Chlorobenzene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Dibromochloromethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Chloroethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Chloroform	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Chloromethane	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,1-Dichloroethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,2-Dichloroethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
cis-1,2-Dichloroethene	3.6	U	3.6		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
trans-1,2-Dichloroethene	3.6	U	3.6		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,1-Dichloroethene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,2-Dichloropropane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
cis-1,3-Dichloropropene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
trans-1,3-Dichloropropene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
2-Hexanone	28	U	28		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Methylene Chloride	**8.9**		7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
4-Methyl-2-pentanone (MIBK)	28	U	28		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Methyl tert-butyl ether	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Styrene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,1,2,2-Tetrachloroethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Tetrachloroethene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Toluene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,1,1-Trichloroethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
1,1,2-Trichloroethane	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Trichloroethene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Vinyl chloride	14	U	14		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Xylenes, Total	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1
Ethylbenzene	7.1	U	7.1		ug/Kg	☼	06/21/13 09:01	06/21/13 17:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*39 - 128*	*06/21/13 09:01*	*06/21/13 17:58*	*1*
Toluene-d8 (Surr)	*108*		*33 - 134*	*06/21/13 09:01*	*06/21/13 17:58*	*1*
4-Bromofluorobenzene (Surr)	*101*		*26 - 141*	*06/21/13 09:01*	*06/21/13 17:58*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/21/13 09:01*	*06/21/13 17:58*	*1*

Client Sample ID: SB18-4-0613
Date Collected: 06/14/13 08:05
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-19
Matrix: Solid
Percent Solids: 75.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26	U	26		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Benzene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Bromodichloromethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Bromoform	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Bromomethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Carbon disulfide	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Carbon tetrachloride	6.4	U *	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Chlorobenzene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Dibromochloromethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Chloroethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Chloroform	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Chloromethane	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,1-Dichloroethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,2-Dichloroethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,1-Dichloroethene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,2-Dichloropropane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
cis-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
trans-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
2-Hexanone	26	U	26		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Methylene Chloride	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Methyl tert-butyl ether	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Styrene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,1,2,2-Tetrachloroethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Tetrachloroethene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Toluene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,1,1-Trichloroethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
1,1,2-Trichloroethane	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Trichloroethene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Vinyl chloride	13	U	13		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Xylenes, Total	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1
Ethylbenzene	6.4	U	6.4		ug/Kg	☼	06/21/13 09:01	06/21/13 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*39 - 128*	*06/21/13 09:01*	*06/21/13 18:21*	*1*
Toluene-d8 (Surr)	*108*		*33 - 134*	*06/21/13 09:01*	*06/21/13 18:21*	*1*
4-Bromofluorobenzene (Surr)	*99*		*26 - 141*	*06/21/13 09:01*	*06/21/13 18:21*	*1*
Dibromofluoromethane (Surr)	*102*		*37 - 122*	*06/21/13 09:01*	*06/21/13 18:21*	*1*

Client Sample ID: SB19-5-0613
Date Collected: 06/14/13 08:20
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-20
Matrix: Solid
Percent Solids: 81.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Benzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Bromodichloromethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Bromoform	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Bromomethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Carbon disulfide	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Carbon tetrachloride	6.0	U *	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Chlorobenzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Dibromochloromethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Chloroethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Chloroform	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Chloromethane	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,1-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,2-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,1-Dichloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
cis-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
trans-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
2-Hexanone	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Methylene Chloride	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Methyl tert-butyl ether	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Styrene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Tetrachloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Toluene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,1,1-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
1,1,2-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Trichloroethene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Xylenes, Total	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1
Ethylbenzene	6.0	U	6.0		ug/Kg	☼	06/21/13 09:01	06/21/13 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*39 - 128*	*06/21/13 09:01*	*06/21/13 18:45*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/21/13 09:01*	*06/21/13 18:45*	*1*
4-Bromofluorobenzene (Surr)	*99*		*26 - 141*	*06/21/13 09:01*	*06/21/13 18:45*	*1*
Dibromofluoromethane (Surr)	*100*		*37 - 122*	*06/21/13 09:01*	*06/21/13 18:45*	*1*

Client Sample ID: SB20-2-0613
Date Collected: 06/14/13 08:40
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-21
Matrix: Solid
Percent Solids: 80.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Benzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Bromodichloromethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Bromoform	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Bromomethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
2-Butanone (MEK)	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Carbon disulfide	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Carbon tetrachloride	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Chlorobenzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Dibromochloromethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Chloroethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Chloroform	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Chloromethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,1-Dichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,2-Dichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,1-Dichloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
cis-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
trans-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
2-Hexanone	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Methylene Chloride	**14**		6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Methyl tert-butyl ether	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Styrene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,1,2,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Tetrachloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Toluene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,1,1-Trichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
1,1,2-Trichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Trichloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Xylenes, Total	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1
Ethylbenzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*	*06/24/13 12:45*	*06/24/13 14:16*	*1*
Toluene-d8 (Surr)	*115*		*33 - 134*	*06/24/13 12:45*	*06/24/13 14:16*	*1*
4-Bromofluorobenzene (Surr)	*119*		*26 - 141*	*06/24/13 12:45*	*06/24/13 14:16*	*1*
Dibromofluoromethane (Surr)	*99*		*37 - 122*	*06/24/13 12:45*	*06/24/13 14:16*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB21-3-0613
Date Collected: 06/14/13 08:55
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-22
Matrix: Solid
Percent Solids: 76.5

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Benzene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Bromodichloromethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Bromoform	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Bromomethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Carbon disulfide	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Carbon tetrachloride	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Chlorobenzene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Dibromochloromethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Chloroethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Chloroform	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Chloromethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,1-Dichloroethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,2-Dichloroethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,1-Dichloroethene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,2-Dichloropropane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
cis-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
trans-1,3-Dichloropropene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
2-Hexanone	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Methylene Chloride	**12**		6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Methyl tert-butyl ether	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Styrene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,1,2,2-Tetrachloroethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Tetrachloroethene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Toluene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,1,1-Trichloroethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
1,1,2-Trichloroethane	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Trichloroethene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Vinyl chloride	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Xylenes, Total	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1
Ethylbenzene	6.5	U	6.5		ug/Kg	☼	06/24/13 12:45	06/24/13 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*112*		*39 - 128*	*06/24/13 12:45*	*06/24/13 14:39*	*1*
Toluene-d8 (Surr)	*106*		*33 - 134*	*06/24/13 12:45*	*06/24/13 14:39*	*1*
4-Bromofluorobenzene (Surr)	*96*		*26 - 141*	*06/24/13 12:45*	*06/24/13 14:39*	*1*
Dibromofluoromethane (Surr)	*106*		*37 - 122*	*06/24/13 12:45*	*06/24/13 14:39*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB22-3-0613
Date Collected: 06/14/13 09:10
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-23
Matrix: Solid
Percent Solids: 80.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	37		23		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Benzene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Bromodichloromethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Bromoform	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Bromomethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Carbon disulfide	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Carbon tetrachloride	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Chlorobenzene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Dibromochloromethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Chloroethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Chloroform	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Chloromethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,1-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,2-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,1-Dichloroethene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
cis-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
trans-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
2-Hexanone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Methylene Chloride	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Methyl tert-butyl ether	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Styrene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,1,2,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Tetrachloroethene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Toluene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,1,1-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
1,1,2-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Trichloroethene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Xylenes, Total	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1
Ethylbenzene	5.6	U	5.6		ug/Kg	☼	06/24/13 12:45	06/24/13 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*111*		*39 - 128*	*06/24/13 12:45*	*06/24/13 15:51*	*1*
Toluene-d8 (Surr)	*105*		*33 - 134*	*06/24/13 12:45*	*06/24/13 15:51*	*1*
4-Bromofluorobenzene (Surr)	*96*		*26 - 141*	*06/24/13 12:45*	*06/24/13 15:51*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/24/13 12:45*	*06/24/13 15:51*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB23-4-0613
Date Collected: 06/14/13 09:25
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-24
Matrix: Solid
Percent Solids: 74.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**320**		25		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Benzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Bromodichloromethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Bromoform	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Bromomethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
2-Butanone (MEK)	**34**		25		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Carbon disulfide	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Carbon tetrachloride	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Chlorobenzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Dibromochloromethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Chloroethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Chloroform	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Chloromethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,1-Dichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,2-Dichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
cis-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
trans-1,2-Dichloroethene	3.1	U	3.1		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,1-Dichloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,2-Dichloropropane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
cis-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
trans-1,3-Dichloropropene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
2-Hexanone	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Methylene Chloride	**17**		6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
4-Methyl-2-pentanone (MIBK)	25	U	25		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Methyl tert-butyl ether	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Styrene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,1,2,2-Tetrachloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Tetrachloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Toluene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,1,1-Trichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
1,1,2-Trichloroethane	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Trichloroethene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Xylenes, Total	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1
Ethylbenzene	6.2	U	6.2		ug/Kg	☼	06/24/13 12:45	06/24/13 16:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*39 - 128*	*06/24/13 12:45*	*06/24/13 16:14*	*1*
Toluene-d8 (Surr)	*108*		*33 - 134*	*06/24/13 12:45*	*06/24/13 16:14*	*1*
4-Bromofluorobenzene (Surr)	*120*		*26 - 141*	*06/24/13 12:45*	*06/24/13 16:14*	*1*
Dibromofluoromethane (Surr)	*109*		*37 - 122*	*06/24/13 12:45*	*06/24/13 16:14*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB24-4-0613
Date Collected: 06/14/13 09:35
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-25
Matrix: Solid
Percent Solids: 85.4

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**310**		23		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Benzene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Bromodichloromethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Bromoform	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Bromomethane	12	U	12		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
2-Butanone (MEK)	**51**		23		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Dibromochloromethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Chloroethane	12	U	12		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Chloroform	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Chloromethane	12	U	12		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
2-Hexanone	23	U	23		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Methylene Chloride	**18**		5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Methyl tert-butyl ether	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Styrene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Toluene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Xylenes, Total	**23**		5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	06/26/13 04:59	06/26/13 12:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*89*		*39 - 128*	*06/26/13 04:59*	*06/26/13 12:25*	*1*
Toluene-d8 (Surr)	*100*		*33 - 134*	*06/26/13 04:59*	*06/26/13 12:25*	*1*
4-Bromofluorobenzene (Surr)	*101*		*26 - 141*	*06/26/13 04:59*	*06/26/13 12:25*	*1*
Dibromofluoromethane (Surr)	*88*		*37 - 122*	*06/26/13 04:59*	*06/26/13 12:25*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB25-3-0613
Date Collected: 06/14/13 09:55
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-26
Matrix: Solid
Percent Solids: 75.3

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Benzene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Bromodichloromethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Bromoform	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Bromomethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
2-Butanone (MEK)	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Carbon disulfide	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Carbon tetrachloride	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Chlorobenzene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Dibromochloromethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Chloroethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Chloroform	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Chloromethane	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,1-Dichloroethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,2-Dichloroethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
cis-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
trans-1,2-Dichloroethene	3.2	U	3.2		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,1-Dichloroethene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,2-Dichloropropane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
cis-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
trans-1,3-Dichloropropene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
2-Hexanone	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Methylene Chloride	**7.9**		6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
4-Methyl-2-pentanone (MIBK)	26	U	26		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Methyl tert-butyl ether	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Styrene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,1,2,2-Tetrachloroethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Tetrachloroethene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Toluene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,1,1-Trichloroethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
1,1,2-Trichloroethane	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Trichloroethene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Vinyl chloride	13	U	13		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Xylenes, Total	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1
Ethylbenzene	6.4	U	6.4		ug/Kg	☼	06/24/13 12:45	06/24/13 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*108*		*39 - 128*	*06/24/13 12:45*	*06/24/13 17:01*	*1*
Toluene-d8 (Surr)	*103*		*33 - 134*	*06/24/13 12:45*	*06/24/13 17:01*	*1*
4-Bromofluorobenzene (Surr)	*97*		*26 - 141*	*06/24/13 12:45*	*06/24/13 17:01*	*1*
Dibromofluoromethane (Surr)	*96*		*37 - 122*	*06/24/13 12:45*	*06/24/13 17:01*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB26-2-0613
Date Collected: 06/14/13 10:30
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-27
Matrix: Solid
Percent Solids: 82.0

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**29**		23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Benzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Bromodichloromethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Bromoform	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Bromomethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Carbon tetrachloride	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Dibromochloromethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Chloroethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Chloroform	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Chloromethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
2-Hexanone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Methylene Chloride	**9.3**		5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Methyl tert-butyl ether	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Styrene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Toluene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Trichloroethene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	06/24/13 12:45	06/24/13 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*	*06/24/13 12:45*	*06/24/13 17:25*	*1*
Toluene-d8 (Surr)	*109*		*33 - 134*	*06/24/13 12:45*	*06/24/13 17:25*	*1*
4-Bromofluorobenzene (Surr)	*102*		*26 - 141*	*06/24/13 12:45*	*06/24/13 17:25*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/24/13 12:45*	*06/24/13 17:25*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB27-1-0613
Date Collected: 06/14/13 10:40
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-28
Matrix: Solid
Percent Solids: 84.9

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Benzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Bromodichloromethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Bromoform	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Bromomethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Dibromochloromethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Chloroethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Chloroform	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Chloromethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
2-Hexanone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Methylene Chloride	**20**		5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Methyl tert-butyl ether	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Styrene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Toluene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 17:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*39 - 128*	*06/24/13 12:45*	*06/24/13 17:49*	*1*
Toluene-d8 (Surr)	*118*		*33 - 134*	*06/24/13 12:45*	*06/24/13 17:49*	*1*
4-Bromofluorobenzene (Surr)	*131*		*26 - 141*	*06/24/13 12:45*	*06/24/13 17:49*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/24/13 12:45*	*06/24/13 17:49*	*1*

Client Sample ID: SB28-3-0613
Date Collected: 06/14/13 10:50
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-29
Matrix: Solid
Percent Solids: 83.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Benzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Bromodichloromethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Bromoform	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Bromomethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Carbon disulfide	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Carbon tetrachloride	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Chlorobenzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Dibromochloromethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Chloroethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Chloroform	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Chloromethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,1-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,2-Dichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
cis-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
trans-1,2-Dichloroethene	2.9	U	2.9		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,1-Dichloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,2-Dichloropropane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
cis-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
trans-1,3-Dichloropropene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
2-Hexanone	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Methylene Chloride	**11**		5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Methyl tert-butyl ether	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Styrene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,1,2,2-Tetrachloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Tetrachloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Toluene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,1,1-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
1,1,2-Trichloroethane	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Trichloroethene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Xylenes, Total	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1
Ethylbenzene	5.8	U	5.8		ug/Kg	☼	06/24/13 12:45	06/24/13 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*39 - 128*	*06/24/13 12:45*	*06/24/13 18:12*	*1*
Toluene-d8 (Surr)	*116*		*33 - 134*	*06/24/13 12:45*	*06/24/13 18:12*	*1*
4-Bromofluorobenzene (Surr)	*123*		*26 - 141*	*06/24/13 12:45*	*06/24/13 18:12*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/24/13 12:45*	*06/24/13 18:12*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB29-3-0613
Date Collected: 06/14/13 11:05
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-30
Matrix: Solid
Percent Solids: 87.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**73**		22		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Benzene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Bromodichloromethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Bromoform	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Bromomethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Carbon disulfide	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Carbon tetrachloride	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Chlorobenzene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Dibromochloromethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Chloroethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Chloroform	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Chloromethane	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,1-Dichloroethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,2-Dichloroethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
cis-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
trans-1,2-Dichloroethene	2.7	U	2.7		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,1-Dichloroethene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,2-Dichloropropane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
cis-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
trans-1,3-Dichloropropene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
2-Hexanone	22	U	22		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Methylene Chloride	**5.5**		5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Methyl tert-butyl ether	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Styrene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,1,2,2-Tetrachloroethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Tetrachloroethene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Toluene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,1,1-Trichloroethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
1,1,2-Trichloroethane	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Trichloroethene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Xylenes, Total	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1
Ethylbenzene	5.4	U	5.4		ug/Kg	☼	06/24/13 12:45	06/24/13 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*39 - 128*	*06/24/13 12:45*	*06/24/13 18:36*	*1*
Toluene-d8 (Surr)	*103*		*33 - 134*	*06/24/13 12:45*	*06/24/13 18:36*	*1*
4-Bromofluorobenzene (Surr)	*104*		*26 - 141*	*06/24/13 12:45*	*06/24/13 18:36*	*1*
Dibromofluoromethane (Surr)	*94*		*37 - 122*	*06/24/13 12:45*	*06/24/13 18:36*	*1*

Client Sample ID: SB30-3-0613
Date Collected: 06/14/13 11:20
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-31
Matrix: Solid
Percent Solids: 89.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	21	U	21		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Benzene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Bromodichloromethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Bromoform	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Bromomethane	10	U	10		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
2-Butanone (MEK)	21	U	21		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Carbon disulfide	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Carbon tetrachloride	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Chlorobenzene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Dibromochloromethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Chloroethane	10	U	10		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Chloroform	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Chloromethane	10	U	10		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,1-Dichloroethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,2-Dichloroethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
cis-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
trans-1,2-Dichloroethene	2.6	U	2.6		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,1-Dichloroethene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,2-Dichloropropane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
cis-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
trans-1,3-Dichloropropene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
2-Hexanone	21	U	21		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Methylene Chloride	**8.1**		5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
4-Methyl-2-pentanone (MIBK)	21	U	21		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Methyl tert-butyl ether	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Styrene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,1,2,2-Tetrachloroethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Tetrachloroethene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Toluene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,1,1-Trichloroethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
1,1,2-Trichloroethane	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Trichloroethene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Vinyl chloride	10	U	10		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Xylenes, Total	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1
Ethylbenzene	5.2	U	5.2		ug/Kg	☼	06/24/13 12:45	06/24/13 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*39 - 128*	*06/24/13 12:45*	*06/24/13 19:00*	*1*
Toluene-d8 (Surr)	*103*		*33 - 134*	*06/24/13 12:45*	*06/24/13 19:00*	*1*
4-Bromofluorobenzene (Surr)	*96*		*26 - 141*	*06/24/13 12:45*	*06/24/13 19:00*	*1*
Dibromofluoromethane (Surr)	*98*		*37 - 122*	*06/24/13 12:45*	*06/24/13 19:00*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB30-9-0613
Date Collected: 06/14/13 11:20
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-32
Matrix: Solid
Percent Solids: 81.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**47**		24		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Benzene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Bromodichloromethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Bromoform	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Bromomethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
2-Butanone (MEK)	24	U	24		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Carbon disulfide	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Carbon tetrachloride	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Chlorobenzene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Dibromochloromethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Chloroethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Chloroform	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Chloromethane	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,1-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,2-Dichloroethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
cis-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
trans-1,2-Dichloroethene	3.0	U	3.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,1-Dichloroethene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,2-Dichloropropane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
cis-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
trans-1,3-Dichloropropene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
2-Hexanone	24	U	24		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Methylene Chloride	**6.6**		6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
4-Methyl-2-pentanone (MIBK)	24	U	24		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Methyl tert-butyl ether	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Styrene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Tetrachloroethene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Toluene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,1,1-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
1,1,2-Trichloroethane	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Trichloroethene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Vinyl chloride	12	U	12		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Xylenes, Total	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1
Ethylbenzene	6.0	U	6.0		ug/Kg	☼	06/24/13 12:45	06/24/13 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*	*06/24/13 12:45*	*06/24/13 19:23*	*1*
Toluene-d8 (Surr)	*103*		*33 - 134*	*06/24/13 12:45*	*06/24/13 19:23*	*1*
4-Bromofluorobenzene (Surr)	*95*		*26 - 141*	*06/24/13 12:45*	*06/24/13 19:23*	*1*
Dibromofluoromethane (Surr)	*101*		*37 - 122*	*06/24/13 12:45*	*06/24/13 19:23*	*1*

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB31-4-0613
Date Collected: 06/14/13 11:30
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-33
Matrix: Solid
Percent Solids: 86.8

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23	U	23		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Benzene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Bromodichloromethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Bromoform	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Bromomethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
2-Butanone (MEK)	23	U	23		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Carbon disulfide	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Carbon tetrachloride	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Chlorobenzene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Dibromochloromethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Chloroethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Chloroform	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Chloromethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,1-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,2-Dichloroethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
cis-1,2-Dichloroethene	**5.1**		2.8		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,1-Dichloroethene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,2-Dichloropropane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
cis-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
trans-1,3-Dichloropropene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
2-Hexanone	23	U	23		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Methylene Chloride	**13**		5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
4-Methyl-2-pentanone (MIBK)	23	U	23		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Methyl tert-butyl ether	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Styrene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,1,2,2-Tetrachloroethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Tetrachloroethene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Toluene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,1,1-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
1,1,2-Trichloroethane	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Trichloroethene	**100**		5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Xylenes, Total	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1
Ethylbenzene	5.7	U	5.7		ug/Kg	☼	06/26/13 02:31	06/26/13 02:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*39 - 128*	*06/26/13 02:31*	*06/26/13 02:52*	*1*
Toluene-d8 (Surr)	*100*		*33 - 134*	*06/26/13 02:31*	*06/26/13 02:52*	*1*
4-Bromofluorobenzene (Surr)	*76*		*26 - 141*	*06/26/13 02:31*	*06/26/13 02:52*	*1*
Dibromofluoromethane (Surr)	*91*		*37 - 122*	*06/26/13 02:31*	*06/26/13 02:52*	*1*

Client Sample ID: SB32-1-0613
Date Collected: 06/14/13 11:45
Date Received: 06/15/13 12:40

Lab Sample ID: 240-25766-34
Matrix: Solid
Percent Solids: 86.1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	22	U	22		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Benzene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Bromodichloromethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Bromoform	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Bromomethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
2-Butanone (MEK)	22	U	22		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Carbon disulfide	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Carbon tetrachloride	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Chlorobenzene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Dibromochloromethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Chloroethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Chloroform	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Chloromethane	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,1-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,2-Dichloroethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
cis-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
trans-1,2-Dichloroethene	2.8	U	2.8		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,1-Dichloroethene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,2-Dichloropropane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
cis-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
trans-1,3-Dichloropropene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
2-Hexanone	22	U	22		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Methylene Chloride	**10**		5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
4-Methyl-2-pentanone (MIBK)	22	U	22		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Methyl tert-butyl ether	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Styrene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,1,2,2-Tetrachloroethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Tetrachloroethene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Toluene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,1,1-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
1,1,2-Trichloroethane	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Trichloroethene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Vinyl chloride	11	U	11		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Xylenes, Total	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1
Ethylbenzene	5.6	U	5.6		ug/Kg	☼	06/26/13 02:31	06/26/13 03:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*39 - 128*	*06/26/13 02:31*	*06/26/13 03:13*	*1*
Toluene-d8 (Surr)	*92*		*33 - 134*	*06/26/13 02:31*	*06/26/13 03:13*	*1*
4-Bromofluorobenzene (Surr)	*83*		*26 - 141*	*06/26/13 02:31*	*06/26/13 03:13*	*1*
Dibromofluoromethane (Surr)	*90*		*37 - 122*	*06/26/13 02:31*	*06/26/13 03:13*	*1*

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	TOL	BFB	DBFM
Lab Sample ID	Client Sample ID	(39-128)	(33-134)	(26-141)	(37-122)
240-25766-1	SB1-4-0613	118	102	104	109
240-25766-2	SB2-4-0613	108	123	125	106
240-25766-2	SB2-4-0613	105	105	114	96
240-25766-3	SB3-4-0613	109	104	102	103
240-25766-4	SB4-3-0613	110	98	101	104
240-25766-4 MS	SB4-3-0613	101	104	103	99
240-25766-4 MSD	SB4-3-0613	101	113	118	100
240-25766-5	SB4-8-0613	99	101	100	99
240-25766-6	SB5-3-0613	108	109	116	100
240-25766-7	SB6-4-0613	114	109	126	103
240-25766-7	SB6-4-0613	112	109	114	106
240-25766-8	SB7-4-0613	109	99	103	102
240-25766-9	SB8-4-0613	110	103	115	105
240-25766-10	SB9-6-0613	106	100	95	103
240-25766-11	SB10-4-0613	87	92	90	91
240-25766-11	SB10-4-0613	84	108	74	89
240-25766-12	SB11-3-0613	100	114	114	96
240-25766-13	SB12-3-0613	106	116	125	101
240-25766-14	SB13-4-0613	105	111	127	98
240-25766-15	SB14-3-0613	115	106	103	101
240-25766-16	SB15-4-0613	105	109	115	98
240-25766-17	SB16-3-0613	111	122	107	99
240-25766-18	SB17-3-0613	103	108	101	98
240-25766-19	SB18-4-0613	112	108	99	102
240-25766-20	SB19-5-0613	108	109	99	100
240-25766-21	SB20-2-0613	109	115	119	99
240-25766-22	SB21-3-0613	112	106	96	106
240-25766-22 MS	SB21-3-0613	105	105	100	103
240-25766-22 MSD	SB21-3-0613	101	112	110	101
240-25766-23	SB22-3-0613	111	105	96	98
240-25766-24	SB23-4-0613	119	108	120	109
240-25766-25	SB24-4-0613	89	100	101	88
240-25766-26	SB25-3-0613	108	103	97	96
240-25766-27	SB26-2-0613	109	109	102	98
240-25766-28	SB27-1-0613	104	118	131	98
240-25766-29	SB28-3-0613	104	116	123	98
240-25766-30	SB29-3-0613	103	103	104	94
240-25766-31	SB30-3-0613	107	103	96	98
240-25766-32	SB30-9-0613	109	103	95	101
240-25766-33	SB31-4-0613	92	100	76	91
240-25766-34	SB32-1-0613	94	92	83	90
240-25766-34 MS	SB32-1-0613	83	110	71	89
240-25766-34 MSD	SB32-1-0613	89	103	86	94
LCS 240-90776/5	Lab Control Sample	99	105	99	100
LCS 240-91080/5	Lab Control Sample	102	102	96	103
LCS 240-91400/5	Lab Control Sample	83	94	89	86
MB 240-90776/6	Method Blank	107	100	95	99
MB 240-91080/6	Method Blank	99	101	95	97
MB 240-91400/6	Method Blank	92	93	87	92

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260A - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-90776/6
Matrix: Solid
Analysis Batch: 90776

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20		ug/Kg			06/21/13 09:41	1
Benzene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Bromodichloromethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Bromoform	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Bromomethane	10	U	10		ug/Kg			06/21/13 09:41	1
2-Butanone (MEK)	20	U	20		ug/Kg			06/21/13 09:41	1
Carbon disulfide	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Chlorobenzene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Dibromochloromethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Chloroethane	10	U	10		ug/Kg			06/21/13 09:41	1
Chloroform	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Chloromethane	10	U	10		ug/Kg			06/21/13 09:41	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/21/13 09:41	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/21/13 09:41	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
2-Hexanone	20	U	20		ug/Kg			06/21/13 09:41	1
Methylene Chloride	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg			06/21/13 09:41	1
Methyl tert-butyl ether	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Styrene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Tetrachloroethene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Toluene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Trichloroethene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Vinyl chloride	10	U	10		ug/Kg			06/21/13 09:41	1
Xylenes, Total	5.0	U	5.0		ug/Kg			06/21/13 09:41	1
Ethylbenzene	5.0	U	5.0		ug/Kg			06/21/13 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*39 - 128*		*06/21/13 09:41*	*1*
Toluene-d8 (Surr)	*100*		*33 - 134*		*06/21/13 09:41*	*1*
4-Bromofluorobenzene (Surr)	*95*		*26 - 141*		*06/21/13 09:41*	*1*
Dibromofluoromethane (Surr)	*99*		*37 - 122*		*06/21/13 09:41*	*1*

Lab Sample ID: LCS 240-90776/5
Matrix: Solid
Analysis Batch: 90776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			150	156		ug/Kg		104	16 - 156		

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-90776/5
Matrix: Solid
Analysis Batch: 90776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	75.0	79.8		ug/Kg		106	70 - 117
Bromodichloromethane	75.0	72.1		ug/Kg		96	28 - 123
Bromoform	75.0	67.9		ug/Kg		91	10 - 117
Bromomethane	75.0	76.5		ug/Kg		102	10 - 114
2-Butanone (MEK)	150	136		ug/Kg		91	10 - 199
Carbon disulfide	75.0	81.4		ug/Kg		108	10 - 132
Carbon tetrachloride	75.0	89.0	*	ug/Kg		119	29 - 118
Chlorobenzene	75.0	76.6		ug/Kg		102	71 - 116
Dibromochloromethane	75.0	70.5		ug/Kg		94	22 - 113
Chloroethane	75.0	75.5		ug/Kg		101	10 - 120
Chloroform	75.0	77.3		ug/Kg		103	63 - 116
Chloromethane	75.0	65.9		ug/Kg		88	25 - 110
1,1-Dichloroethane	75.0	78.8		ug/Kg		105	63 - 117
1,2-Dichloroethane	75.0	74.8		ug/Kg		100	68 - 119
cis-1,2-Dichloroethene	75.0	77.9		ug/Kg		104	60 - 125
trans-1,2-Dichloroethene	75.0	82.2		ug/Kg		110	58 - 121
1,1-Dichloroethene	75.0	79.7		ug/Kg		106	44 - 143
1,2-Dichloropropane	75.0	74.3		ug/Kg		99	73 - 113
cis-1,3-Dichloropropene	75.0	61.3		ug/Kg		82	25 - 120
trans-1,3-Dichloropropene	75.0	80.9		ug/Kg		108	22 - 122
2-Hexanone	150	141		ug/Kg		94	43 - 130
Methylene Chloride	75.0	83.2		ug/Kg		111	27 - 172
4-Methyl-2-pentanone (MIBK)	150	159		ug/Kg		106	49 - 121
Methyl tert-butyl ether	75.0	79.1		ug/Kg		106	34 - 157
Styrene	75.0	81.0		ug/Kg		108	60 - 120
1,1,2,2-Tetrachloroethane	75.0	76.6		ug/Kg		102	54 - 121
Tetrachloroethene	75.0	82.3		ug/Kg		110	58 - 131
Toluene	75.0	79.8		ug/Kg		106	66 - 123
1,1,1-Trichloroethane	75.0	84.4		ug/Kg		113	38 - 122
1,1,2-Trichloroethane	75.0	76.3		ug/Kg		102	74 - 114
Trichloroethene	75.0	78.4		ug/Kg		105	59 - 124
Vinyl chloride	75.0	74.5		ug/Kg		99	33 - 110
m-Xylene & p-Xylene	75.0	81.8		ug/Kg		109	67 - 118
o-Xylene	75.0	84.1		ug/Kg		112	68 - 120
Xylenes, Total	150	166		ug/Kg		111	68 - 119
Ethylbenzene	75.0	83.1		ug/Kg		111	66 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*39 - 128*
Toluene-d8 (Surr)	*105*		*33 - 134*
4-Bromofluorobenzene (Surr)	*99*		*26 - 141*
Dibromofluoromethane (Surr)	*100*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-4 MS
Matrix: Solid
Analysis Batch: 90776

Client Sample ID: SB4-3-0613
Prep Type: Total/NA
Prep Batch: 90815

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	92		175	250		ug/Kg	☼	91	10 - 142
Benzene	5.9	U	87.3	87.4		ug/Kg	☼	100	10 - 199
Bromodichloromethane	5.9	U	87.3	84.8		ug/Kg	☼	97	18 - 133
Bromoform	5.9	U	87.3	76.2		ug/Kg	☼	87	10 - 147
Bromomethane	12	U	87.3	81.8		ug/Kg	☼	94	10 - 151
2-Butanone (MEK)	24	U	175	154		ug/Kg	☼	83	10 - 172
Carbon disulfide	5.9	U	87.3	89.8		ug/Kg	☼	102	10 - 155
Carbon tetrachloride	5.9	U *	87.3	99.7		ug/Kg	☼	114	12 - 135
Chlorobenzene	5.9	U	87.3	87.4		ug/Kg	☼	100	47 - 118
Dibromochloromethane	5.9	U	87.3	81.1		ug/Kg	☼	93	10 - 128
Chloroethane	12	U	87.3	83.4		ug/Kg	☼	96	10 - 168
Chloroform	5.9	U	87.3	92.3		ug/Kg	☼	106	51 - 120
Chloromethane	12	U	87.3	75.3		ug/Kg	☼	86	16 - 115
1,1-Dichloroethane	5.9	U	87.3	92.6		ug/Kg	☼	106	18 - 160
1,2-Dichloroethane	5.9	U	87.3	88.4		ug/Kg	☼	101	25 - 150
cis-1,2-Dichloroethene	2.9	U	87.3	88.3		ug/Kg	☼	101	34 - 137
trans-1,2-Dichloroethene	2.9	U	87.3	92.4		ug/Kg	☼	106	40 - 126
1,1-Dichloroethene	5.9	U	87.3	89.7		ug/Kg	☼	103	10 - 179
1,2-Dichloropropane	5.9	U	87.3	85.9		ug/Kg	☼	98	58 - 118
cis-1,3-Dichloropropene	5.9	U	87.3	69.9		ug/Kg	☼	80	19 - 121
trans-1,3-Dichloropropene	5.9	U	87.3	85.5		ug/Kg	☼	98	10 - 136
2-Hexanone	24	U	175	163		ug/Kg	☼	94	21 - 141
Methylene Chloride	7.2		87.3	99.5		ug/Kg	☼	106	10 - 148
4-Methyl-2-pentanone (MIBK)	24	U	175	182		ug/Kg	☼	104	19 - 151
Methyl tert-butyl ether	5.9	U	87.3	87.3		ug/Kg	☼	100	26 - 159
Styrene	5.9	U	87.3	92.3		ug/Kg	☼	106	31 - 137
1,1,2,2-Tetrachloroethane	5.9	U	87.3	99.2		ug/Kg	☼	114	16 - 158
Tetrachloroethene	5.9	U	87.3	93.5		ug/Kg	☼	107	19 - 153
Toluene	5.9	U	87.3	92.5		ug/Kg	☼	106	10 - 168
1,1,1-Trichloroethane	5.9	U	87.3	94.8		ug/Kg	☼	109	10 - 159
1,1,2-Trichloroethane	5.9	U	87.3	88.0		ug/Kg	☼	101	34 - 152
Trichloroethene	5.9	U	87.3	90.4		ug/Kg	☼	104	10 - 193
Vinyl chloride	12	U	87.3	79.4		ug/Kg	☼	91	15 - 123
m-Xylene & p-Xylene	5.9		87.3	92.1		ug/Kg	☼	105	14 - 151
o-Xylene	2.9		87.3	95.4		ug/Kg	☼	109	18 - 151
Xylenes, Total	5.9	U	175	188		ug/Kg	☼	107	16 - 150
Ethylbenzene	5.9	U	87.3	91.3		ug/Kg	☼	105	27 - 143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*39 - 128*
Toluene-d8 (Surr)	*104*		*33 - 134*
4-Bromofluorobenzene (Surr)	*103*		*26 - 141*
Dibromofluoromethane (Surr)	*99*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-4 MSD
Matrix: Solid
Analysis Batch: 90776

Client Sample ID: SB4-3-0613
Prep Type: Total/NA
Prep Batch: 90815

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	92		171	313		ug/Kg	☼	129	10 - 142	22	30
Benzene	5.9	U	85.7	88.5		ug/Kg	☼	103	10 - 199	1	30
Bromodichloromethane	5.9	U	85.7	85.5		ug/Kg	☼	100	18 - 133	1	30
Bromoform	5.9	U	85.7	82.7		ug/Kg	☼	97	10 - 147	8	30
Bromomethane	12	U	85.7	78.3		ug/Kg	☼	91	10 - 151	4	30
2-Butanone (MEK)	24	U	171	173		ug/Kg	☼	95	10 - 172	12	30
Carbon disulfide	5.9	U	85.7	83.4		ug/Kg	☼	97	10 - 155	7	30
Carbon tetrachloride	5.9	U *	85.7	96.8		ug/Kg	☼	113	12 - 135	3	30
Chlorobenzene	5.9	U	85.7	89.8		ug/Kg	☼	105	47 - 118	3	30
Dibromochloromethane	5.9	U	85.7	94.3		ug/Kg	☼	110	10 - 128	15	30
Chloroethane	12	U	85.7	84.1		ug/Kg	☼	98	10 - 168	1	30
Chloroform	5.9	U	85.7	88.6		ug/Kg	☼	103	51 - 120	4	30
Chloromethane	12	U	85.7	75.6		ug/Kg	☼	88	16 - 115	0	30
1,1-Dichloroethane	5.9	U	85.7	94.1		ug/Kg	☼	110	18 - 160	2	30
1,2-Dichloroethane	5.9	U	85.7	88.8		ug/Kg	☼	104	25 - 150	0	30
cis-1,2-Dichloroethene	2.9	U	85.7	84.8		ug/Kg	☼	99	34 - 137	4	30
trans-1,2-Dichloroethene	2.9	U	85.7	89.8		ug/Kg	☼	105	40 - 126	3	30
1,1-Dichloroethene	5.9	U	85.7	90.2		ug/Kg	☼	105	10 - 179	1	30
1,2-Dichloropropane	5.9	U	85.7	87.1		ug/Kg	☼	102	58 - 118	1	30
cis-1,3-Dichloropropene	5.9	U	85.7	69.2		ug/Kg	☼	81	19 - 121	1	30
trans-1,3-Dichloropropene	5.9	U	85.7	93.8		ug/Kg	☼	110	10 - 136	9	30
2-Hexanone	24	U	171	197		ug/Kg	☼	115	21 - 141	19	30
Methylene Chloride	7.2		85.7	101		ug/Kg	☼	109	10 - 148	1	30
4-Methyl-2-pentanone (MIBK)	24	U	171	222		ug/Kg	☼	129	19 - 151	19	30
Methyl tert-butyl ether	5.9	U	85.7	92.5		ug/Kg	☼	108	26 - 159	6	30
Styrene	5.9	U	85.7	85.9		ug/Kg	☼	100	31 - 137	7	30
1,1,2,2-Tetrachloroethane	5.9	U	85.7	144	F	ug/Kg	☼	168	16 - 158	37	30
Tetrachloroethene	5.9	U	85.7	91.6		ug/Kg	☼	107	19 - 153	2	30
Toluene	5.9	U	85.7	96.9		ug/Kg	☼	113	10 - 168	5	30
1,1,1-Trichloroethane	5.9	U	85.7	94.5		ug/Kg	☼	110	10 - 159	0	30
1,1,2-Trichloroethane	5.9	U	85.7	107		ug/Kg	☼	125	34 - 152	20	30
Trichloroethene	5.9	U	85.7	86.3		ug/Kg	☼	101	10 - 193	5	30
Vinyl chloride	12	U	85.7	78.0		ug/Kg	☼	91	15 - 123	2	30
m-Xylene & p-Xylene	5.9		85.7	89.5		ug/Kg	☼	104	14 - 151	3	30
o-Xylene	2.9		85.7	92.5		ug/Kg	☼	108	18 - 151	3	30
Xylenes, Total	5.9	U	171	182		ug/Kg	☼	106	16 - 150	3	30
Ethylbenzene	5.9	U	85.7	93.1		ug/Kg	☼	109	27 - 143	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*39 - 128*
Toluene-d8 (Surr)	*113*		*33 - 134*
4-Bromofluorobenzene (Surr)	*118*		*26 - 141*
Dibromofluoromethane (Surr)	*100*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-91080/6
Matrix: Solid
Analysis Batch: 91080

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20		ug/Kg			06/24/13 13:05	1
Benzene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Bromodichloromethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Bromoform	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Bromomethane	10	U	10		ug/Kg			06/24/13 13:05	1
2-Butanone (MEK)	20	U	20		ug/Kg			06/24/13 13:05	1
Carbon disulfide	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Chlorobenzene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Dibromochloromethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Chloroethane	10	U	10		ug/Kg			06/24/13 13:05	1
Chloroform	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Chloromethane	10	U	10		ug/Kg			06/24/13 13:05	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/24/13 13:05	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/24/13 13:05	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
2-Hexanone	20	U	20		ug/Kg			06/24/13 13:05	1
Methylene Chloride	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg			06/24/13 13:05	1
Methyl tert-butyl ether	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Styrene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Tetrachloroethene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Toluene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Trichloroethene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Vinyl chloride	10	U	10		ug/Kg			06/24/13 13:05	1
Xylenes, Total	5.0	U	5.0		ug/Kg			06/24/13 13:05	1
Ethylbenzene	5.0	U	5.0		ug/Kg			06/24/13 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*39 - 128*		*06/24/13 13:05*	*1*
Toluene-d8 (Surr)	*101*		*33 - 134*		*06/24/13 13:05*	*1*
4-Bromofluorobenzene (Surr)	*95*		*26 - 141*		*06/24/13 13:05*	*1*
Dibromofluoromethane (Surr)	*97*		*37 - 122*		*06/24/13 13:05*	*1*

Lab Sample ID: LCS 240-91080/5
Matrix: Solid
Analysis Batch: 91080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	150	181		ug/Kg		121	16 - 156

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-91080/5
Matrix: Solid
Analysis Batch: 91080

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	75.0	76.9		ug/Kg		103	70 - 117
Bromodichloromethane	75.0	77.3		ug/Kg		103	28 - 123
Bromoform	75.0	79.6		ug/Kg		106	10 - 117
Bromomethane	75.0	69.8		ug/Kg		93	10 - 114
2-Butanone (MEK)	150	151		ug/Kg		101	10 - 199
Carbon disulfide	75.0	72.6		ug/Kg		97	10 - 132
Carbon tetrachloride	75.0	87.3		ug/Kg		116	29 - 118
Chlorobenzene	75.0	75.7		ug/Kg		101	71 - 116
Dibromochloromethane	75.0	81.1		ug/Kg		108	22 - 113
Chloroethane	75.0	72.2		ug/Kg		96	10 - 120
Chloroform	75.0	77.7		ug/Kg		104	63 - 116
Chloromethane	75.0	65.8		ug/Kg		88	25 - 110
1,1-Dichloroethane	75.0	75.0		ug/Kg		100	63 - 117
1,2-Dichloroethane	75.0	80.9		ug/Kg		108	68 - 119
cis-1,2-Dichloroethene	75.0	77.8		ug/Kg		104	60 - 125
trans-1,2-Dichloroethene	75.0	82.2		ug/Kg		110	58 - 121
1,1-Dichloroethene	75.0	77.3		ug/Kg		103	44 - 143
1,2-Dichloropropane	75.0	73.7		ug/Kg		98	73 - 113
cis-1,3-Dichloropropene	75.0	64.1		ug/Kg		86	25 - 120
trans-1,3-Dichloropropene	75.0	78.7		ug/Kg		105	22 - 122
2-Hexanone	150	145		ug/Kg		97	43 - 130
Methylene Chloride	75.0	84.6		ug/Kg		113	27 - 172
4-Methyl-2-pentanone (MIBK)	150	153		ug/Kg		102	49 - 121
Methyl tert-butyl ether	75.0	78.1		ug/Kg		104	34 - 157
Styrene	75.0	76.8		ug/Kg		102	60 - 120
1,1,2,2-Tetrachloroethane	75.0	77.2		ug/Kg		103	54 - 121
Tetrachloroethene	75.0	80.7		ug/Kg		108	58 - 131
Toluene	75.0	76.8		ug/Kg		102	66 - 123
1,1,1-Trichloroethane	75.0	80.4		ug/Kg		107	38 - 122
1,1,2-Trichloroethane	75.0	78.0		ug/Kg		104	74 - 114
Trichloroethene	75.0	78.2		ug/Kg		104	59 - 124
Vinyl chloride	75.0	68.4		ug/Kg		91	33 - 110
m-Xylene & p-Xylene	150	150		ug/Kg		100	67 - 118
o-Xylene	75.0	81.2		ug/Kg		108	68 - 120
Xylenes, Total	225	231		ug/Kg		103	68 - 119
Ethylbenzene	75.0	75.7		ug/Kg		101	66 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*102*		*39 - 128*
Toluene-d8 (Surr)	*102*		*33 - 134*
4-Bromofluorobenzene (Surr)	*96*		*26 - 141*
Dibromofluoromethane (Surr)	*103*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-22 MS
Matrix: Solid
Analysis Batch: 91080

Client Sample ID: SB21-3-0613
Prep Type: Total/NA
Prep Batch: 91117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	26	U	192	247		ug/Kg	☼	123	10 - 142
Benzene	6.5	U	95.8	88.1		ug/Kg	☼	92	10 - 199
Bromodichloromethane	6.5	U	95.8	87.1		ug/Kg	☼	91	18 - 133
Bromoform	6.5	U	95.8	89.0		ug/Kg	☼	93	10 - 147
Bromomethane	13	U	95.8	82.5		ug/Kg	☼	86	10 - 151
2-Butanone (MEK)	26	U	192	192		ug/Kg	☼	100	10 - 172
Carbon disulfide	6.5	U	95.8	72.4		ug/Kg	☼	76	10 - 155
Carbon tetrachloride	6.5	U	95.8	98.2		ug/Kg	☼	103	12 - 135
Chlorobenzene	6.5	U	95.8	91.1		ug/Kg	☼	95	47 - 118
Dibromochloromethane	6.5	U	95.8	97.7		ug/Kg	☼	102	10 - 128
Chloroethane	13	U	95.8	82.5		ug/Kg	☼	86	10 - 168
Chloroform	6.5	U	95.8	90.4		ug/Kg	☼	94	51 - 120
Chloromethane	13	U	95.8	76.3		ug/Kg	☼	80	16 - 115
1,1-Dichloroethane	6.5	U	95.8	91.1		ug/Kg	☼	95	18 - 160
1,2-Dichloroethane	6.5	U	95.8	97.5		ug/Kg	☼	102	25 - 150
cis-1,2-Dichloroethene	3.2	U	95.8	91.7		ug/Kg	☼	96	34 - 137
trans-1,2-Dichloroethene	3.2	U	95.8	90.8		ug/Kg	☼	95	40 - 126
1,1-Dichloroethene	6.5	U	95.8	85.9		ug/Kg	☼	90	10 - 179
1,2-Dichloropropane	6.5	U	95.8	85.7		ug/Kg	☼	90	58 - 118
cis-1,3-Dichloropropene	6.5	U	95.8	68.8		ug/Kg	☼	72	19 - 121
trans-1,3-Dichloropropene	6.5	U	95.8	91.9		ug/Kg	☼	96	10 - 136
2-Hexanone	26	U	192	199		ug/Kg	☼	104	21 - 141
Methylene Chloride	12		95.8	111		ug/Kg	☼	103	10 - 148
4-Methyl-2-pentanone (MIBK)	26	U	192	214		ug/Kg	☼	111	19 - 151
Methyl tert-butyl ether	6.5	U	95.8	93.0		ug/Kg	☼	97	26 - 159
Styrene	6.5	U	95.8	84.7		ug/Kg	☼	88	31 - 137
1,1,2,2-Tetrachloroethane	6.5	U	95.8	110		ug/Kg	☼	115	16 - 158
Tetrachloroethene	6.5	U	95.8	98.9		ug/Kg	☼	103	19 - 153
Toluene	6.5	U	95.8	98.4		ug/Kg	☼	103	10 - 168
1,1,1-Trichloroethane	6.5	U	95.8	93.4		ug/Kg	☼	98	10 - 159
1,1,2-Trichloroethane	6.5	U	95.8	104		ug/Kg	☼	108	34 - 152
Trichloroethene	6.5	U	95.8	88.9		ug/Kg	☼	93	10 - 193
Vinyl chloride	13	U	95.8	78.9		ug/Kg	☼	82	15 - 123
m-Xylene & p-Xylene	6.5		192	179		ug/Kg	☼	94	14 - 151
o-Xylene	3.2		95.8	96.2		ug/Kg	☼	100	18 - 151
Xylenes, Total	6.5	U	287	275		ug/Kg	☼	96	16 - 150
Ethylbenzene	6.5	U	95.8	91.3		ug/Kg	☼	95	27 - 143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*105*		*39 - 128*
Toluene-d8 (Surr)	*105*		*33 - 134*
4-Bromofluorobenzene (Surr)	*100*		*26 - 141*
Dibromofluoromethane (Surr)	*103*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-22 MSD
Matrix: Solid
Analysis Batch: 91080

Client Sample ID: SB21-3-0613
Prep Type: Total/NA
Prep Batch: 91117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	26	U	186	204		ug/Kg	☼	104	10 - 142	19	30
Benzene	6.5	U	93.2	88.8		ug/Kg	☼	95	10 - 199	1	30
Bromodichloromethane	6.5	U	93.2	86.4		ug/Kg	☼	93	18 - 133	1	30
Bromoform	6.5	U	93.2	80.2		ug/Kg	☼	86	10 - 147	10	30
Bromomethane	13	U	93.2	86.1		ug/Kg	☼	92	10 - 151	4	30
2-Butanone (MEK)	26	U	186	186		ug/Kg	☼	100	10 - 172	3	30
Carbon disulfide	6.5	U	93.2	70.1		ug/Kg	☼	75	10 - 155	3	30
Carbon tetrachloride	6.5	U	93.2	100		ug/Kg	☼	108	12 - 135	2	30
Chlorobenzene	6.5	U	93.2	90.1		ug/Kg	☼	97	47 - 118	1	30
Dibromochloromethane	6.5	U	93.2	93.1		ug/Kg	☼	100	10 - 128	5	30
Chloroethane	13	U	93.2	87.4		ug/Kg	☼	94	10 - 168	6	30
Chloroform	6.5	U	93.2	90.8		ug/Kg	☼	97	51 - 120	0	30
Chloromethane	13	U	93.2	78.5		ug/Kg	☼	84	16 - 115	3	30
1,1-Dichloroethane	6.5	U	93.2	89.7		ug/Kg	☼	96	18 - 160	2	30
1,2-Dichloroethane	6.5	U	93.2	89.7		ug/Kg	☼	96	25 - 150	8	30
cis-1,2-Dichloroethene	3.2	U	93.2	87.9		ug/Kg	☼	94	34 - 137	4	30
trans-1,2-Dichloroethene	3.2	U	93.2	85.2		ug/Kg	☼	91	40 - 126	6	30
1,1-Dichloroethene	6.5	U	93.2	86.5		ug/Kg	☼	93	10 - 179	1	30
1,2-Dichloropropane	6.5	U	93.2	88.2		ug/Kg	☼	95	58 - 118	3	30
cis-1,3-Dichloropropene	6.5	U	93.2	68.6		ug/Kg	☼	74	19 - 121	0	30
trans-1,3-Dichloropropene	6.5	U	93.2	87.6		ug/Kg	☼	94	10 - 136	5	30
2-Hexanone	26	U	186	184		ug/Kg	☼	98	21 - 141	8	30
Methylene Chloride	12		93.2	109		ug/Kg	☼	104	10 - 148	1	30
4-Methyl-2-pentanone (MIBK)	26	U	186	198		ug/Kg	☼	106	19 - 151	8	30
Methyl tert-butyl ether	6.5	U	93.2	87.1		ug/Kg	☼	93	26 - 159	7	30
Styrene	6.5	U	93.2	81.9		ug/Kg	☼	88	31 - 137	3	30
1,1,2,2-Tetrachloroethane	6.5	U	93.2	115		ug/Kg	☼	123	16 - 158	5	30
Tetrachloroethene	6.5	U	93.2	105		ug/Kg	☼	113	19 - 153	6	30
Toluene	6.5	U	93.2	102		ug/Kg	☼	109	10 - 168	3	30
1,1,1-Trichloroethane	6.5	U	93.2	94.3		ug/Kg	☼	101	10 - 159	1	30
1,1,2-Trichloroethane	6.5	U	93.2	101		ug/Kg	☼	109	34 - 152	2	30
Trichloroethene	6.5	U	93.2	91.2		ug/Kg	☼	98	10 - 193	3	30
Vinyl chloride	13	U	93.2	78.5		ug/Kg	☼	84	15 - 123	1	30
m-Xylene & p-Xylene	6.5		186	187		ug/Kg	☼	100	14 - 151	4	30
o-Xylene	3.2		93.2	97.0		ug/Kg	☼	104	18 - 151	1	30
Xylenes, Total	6.5	U	280	284		ug/Kg	☼	102	16 - 150	3	30
Ethylbenzene	6.5	U	93.2	98.8		ug/Kg	☼	106	27 - 143	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*39 - 128*
Toluene-d8 (Surr)	*112*		*33 - 134*
4-Bromofluorobenzene (Surr)	*110*		*26 - 141*
Dibromofluoromethane (Surr)	*101*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-91400/6
Matrix: Solid
Analysis Batch: 91400

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20		ug/Kg			06/26/13 02:26	1
Benzene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Bromodichloromethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Bromoform	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Bromomethane	10	U	10		ug/Kg			06/26/13 02:26	1
2-Butanone (MEK)	20	U	20		ug/Kg			06/26/13 02:26	1
Carbon disulfide	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Carbon tetrachloride	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Chlorobenzene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Dibromochloromethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Chloroethane	10	U	10		ug/Kg			06/26/13 02:26	1
Chloroform	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Chloromethane	10	U	10		ug/Kg			06/26/13 02:26	1
1,1-Dichloroethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
1,2-Dichloroethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
cis-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/26/13 02:26	1
trans-1,2-Dichloroethene	2.5	U	2.5		ug/Kg			06/26/13 02:26	1
1,1-Dichloroethene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
1,2-Dichloropropane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
cis-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
trans-1,3-Dichloropropene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
2-Hexanone	20	U	20		ug/Kg			06/26/13 02:26	1
Methylene Chloride	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
4-Methyl-2-pentanone (MIBK)	20	U	20		ug/Kg			06/26/13 02:26	1
Methyl tert-butyl ether	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Styrene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Tetrachloroethene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Toluene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
1,1,1-Trichloroethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
1,1,2-Trichloroethane	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Trichloroethene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Vinyl chloride	10	U	10		ug/Kg			06/26/13 02:26	1
Xylenes, Total	5.0	U	5.0		ug/Kg			06/26/13 02:26	1
Ethylbenzene	5.0	U	5.0		ug/Kg			06/26/13 02:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*39 - 128*		*06/26/13 02:26*	*1*
Toluene-d8 (Surr)	*93*		*33 - 134*		*06/26/13 02:26*	*1*
4-Bromofluorobenzene (Surr)	*87*		*26 - 141*		*06/26/13 02:26*	*1*
Dibromofluoromethane (Surr)	*92*		*37 - 122*		*06/26/13 02:26*	*1*

Lab Sample ID: LCS 240-91400/5
Matrix: Solid
Analysis Batch: 91400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone			100	98.5		ug/Kg		99	16 - 156		

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-91400/5
Matrix: Solid
Analysis Batch: 91400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.9		ug/Kg		100	70 - 117
Bromodichloromethane	50.0	53.5		ug/Kg		107	28 - 123
Bromoform	50.0	43.2		ug/Kg		86	10 - 117
Bromomethane	50.0	44.3		ug/Kg		89	10 - 114
2-Butanone (MEK)	100	99.0		ug/Kg		99	10 - 199
Carbon disulfide	50.0	54.5		ug/Kg		109	10 - 132
Carbon tetrachloride	50.0	49.2		ug/Kg		98	29 - 118
Chlorobenzene	50.0	48.2		ug/Kg		96	71 - 116
Dibromochloromethane	50.0	51.2		ug/Kg		102	22 - 113
Chloroethane	50.0	48.1		ug/Kg		96	10 - 120
Chloroform	50.0	49.3		ug/Kg		99	63 - 116
Chloromethane	50.0	43.5		ug/Kg		87	25 - 110
1,1-Dichloroethane	50.0	50.8		ug/Kg		102	63 - 117
1,2-Dichloroethane	50.0	48.1		ug/Kg		96	68 - 119
cis-1,2-Dichloroethene	50.0	49.5		ug/Kg		99	60 - 125
trans-1,2-Dichloroethene	50.0	48.5		ug/Kg		97	58 - 121
1,1-Dichloroethene	50.0	50.1		ug/Kg		100	44 - 143
1,2-Dichloropropane	50.0	51.9		ug/Kg		104	73 - 113
cis-1,3-Dichloropropene	50.0	50.4		ug/Kg		101	25 - 120
trans-1,3-Dichloropropene	50.0	43.2		ug/Kg		86	22 - 122
2-Hexanone	100	105		ug/Kg		105	43 - 130
Methylene Chloride	50.0	56.4		ug/Kg		113	27 - 172
4-Methyl-2-pentanone (MIBK)	100	104		ug/Kg		104	49 - 121
Methyl tert-butyl ether	50.0	49.2		ug/Kg		98	34 - 157
Styrene	50.0	53.9		ug/Kg		108	60 - 120
1,1,2,2-Tetrachloroethane	50.0	44.9		ug/Kg		90	54 - 121
Tetrachloroethene	50.0	48.0		ug/Kg		96	58 - 131
Toluene	50.0	45.8		ug/Kg		92	66 - 123
1,1,1-Trichloroethane	50.0	48.3		ug/Kg		97	38 - 122
1,1,2-Trichloroethane	50.0	50.7		ug/Kg		101	74 - 114
Trichloroethene	50.0	48.4		ug/Kg		97	59 - 124
Vinyl chloride	50.0	45.9		ug/Kg		92	33 - 110
m-Xylene & p-Xylene	100	101		ug/Kg		101	67 - 118
o-Xylene	50.0	49.0		ug/Kg		98	68 - 120
Xylenes, Total	150	150		ug/Kg		100	68 - 119
Ethylbenzene	50.0	49.1		ug/Kg		98	66 - 119

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*39 - 128*
Toluene-d8 (Surr)	*94*		*33 - 134*
4-Bromofluorobenzene (Surr)	*89*		*26 - 141*
Dibromofluoromethane (Surr)	*86*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-34 MS
Matrix: Solid
Analysis Batch: 91400

Client Sample ID: SB32-1-0613
Prep Type: Total/NA
Prep Batch: 91407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	22	U	56.6	57.0		ug/Kg	☼	101	10 - 142
Benzene	5.6	U	28.3	27.2		ug/Kg	☼	96	10 - 199
Bromodichloromethane	5.6	U	28.3	25.2		ug/Kg	☼	89	18 - 133
Bromoform	5.6	U	28.3	19.4		ug/Kg	☼	69	10 - 147
Bromomethane	11	U	28.3	26.0		ug/Kg	☼	92	10 - 151
2-Butanone (MEK)	22	U	56.6	55.2		ug/Kg	☼	98	10 - 172
Carbon disulfide	5.6	U	28.3	29.0		ug/Kg	☼	103	10 - 155
Carbon tetrachloride	5.6	U	28.3	26.5		ug/Kg	☼	94	12 - 135
Chlorobenzene	5.6	U	28.3	27.0		ug/Kg	☼	95	47 - 118
Dibromochloromethane	5.6	U	28.3	26.6		ug/Kg	☼	94	10 - 128
Chloroethane	11	U	28.3	29.1		ug/Kg	☼	103	10 - 168
Chloroform	5.6	U	28.3	26.8		ug/Kg	☼	95	51 - 120
Chloromethane	11	U	28.3	25.6		ug/Kg	☼	91	16 - 115
1,1-Dichloroethane	5.6	U	28.3	28.5		ug/Kg	☼	101	18 - 160
1,2-Dichloroethane	5.6	U	28.3	25.2		ug/Kg	☼	89	25 - 150
cis-1,2-Dichloroethene	2.8	U	28.3	26.7		ug/Kg	☼	94	34 - 137
trans-1,2-Dichloroethene	2.8	U	28.3	27.3		ug/Kg	☼	97	40 - 126
1,1-Dichloroethene	5.6	U	28.3	28.4		ug/Kg	☼	100	10 - 179
1,2-Dichloropropane	5.6	U	28.3	26.8		ug/Kg	☼	95	58 - 118
cis-1,3-Dichloropropene	5.6	U	28.3	21.6		ug/Kg	☼	76	19 - 121
trans-1,3-Dichloropropene	5.6	U	28.3	20.9		ug/Kg	☼	74	10 - 136
2-Hexanone	22	U	56.6	63.3		ug/Kg	☼	112	21 - 141
Methylene Chloride	10		28.3	41.7		ug/Kg	☼	112	10 - 148
4-Methyl-2-pentanone (MIBK)	22	U	56.6	53.2		ug/Kg	☼	94	19 - 151
Methyl tert-butyl ether	5.6	U	28.3	26.4		ug/Kg	☼	93	26 - 159
Styrene	5.6	U	28.3	26.1		ug/Kg	☼	92	31 - 137
1,1,2,2-Tetrachloroethane	5.6	U	28.3	44.2		ug/Kg	☼	156	16 - 158
Tetrachloroethene	5.6	U	28.3	29.1		ug/Kg	☼	103	19 - 153
Toluene	5.6	U	28.3	29.1		ug/Kg	☼	103	10 - 168
1,1,1-Trichloroethane	5.6	U	28.3	27.4		ug/Kg	☼	97	10 - 159
1,1,2-Trichloroethane	5.6	U	28.3	31.4		ug/Kg	☼	111	34 - 152
Trichloroethene	5.6	U	28.3	24.6		ug/Kg	☼	87	10 - 193
Vinyl chloride	11	U	28.3	27.9		ug/Kg	☼	98	15 - 123
m-Xylene & p-Xylene	5.6		56.6	58.9		ug/Kg	☼	104	14 - 151
o-Xylene	2.8		28.3	29.8		ug/Kg	☼	105	18 - 151
Xylenes, Total	5.6	U	84.9	88.7		ug/Kg	☼	104	16 - 150
Ethylbenzene	5.6	U	28.3	28.4		ug/Kg	☼	100	27 - 143

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*83*		*39 - 128*
Toluene-d8 (Surr)	*110*		*33 - 134*
4-Bromofluorobenzene (Surr)	*71*		*26 - 141*
Dibromofluoromethane (Surr)	*89*		*37 - 122*

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-25766-34 MSD
Matrix: Solid
Analysis Batch: 91400

Client Sample ID: SB32-1-0613
Prep Type: Total/NA
Prep Batch: 91407

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	22	U	57.7	63.7		ug/Kg	☼	110	10 - 142	11	30
Benzene	5.6	U	28.9	26.1		ug/Kg	☼	90	10 - 199	4	30
Bromodichloromethane	5.6	U	28.9	25.0		ug/Kg	☼	87	18 - 133	1	30
Bromoform	5.6	U	28.9	19.7		ug/Kg	☼	68	10 - 147	1	30
Bromomethane	11	U	28.9	26.2		ug/Kg	☼	91	10 - 151	1	30
2-Butanone (MEK)	22	U	57.7	58.0		ug/Kg	☼	101	10 - 172	5	30
Carbon disulfide	5.6	U	28.9	28.0		ug/Kg	☼	97	10 - 155	4	30
Carbon tetrachloride	5.6	U	28.9	25.2		ug/Kg	☼	87	12 - 135	5	30
Chlorobenzene	5.6	U	28.9	24.7		ug/Kg	☼	86	47 - 118	9	30
Dibromochloromethane	5.6	U	28.9	23.6		ug/Kg	☼	82	10 - 128	12	30
Chloroethane	11	U	28.9	27.7		ug/Kg	☼	96	10 - 168	5	30
Chloroform	5.6	U	28.9	26.3		ug/Kg	☼	91	51 - 120	2	30
Chloromethane	11	U	28.9	25.6		ug/Kg	☼	89	16 - 115	0	30
1,1-Dichloroethane	5.6	U	28.9	27.5		ug/Kg	☼	95	18 - 160	4	30
1,2-Dichloroethane	5.6	U	28.9	25.6		ug/Kg	☼	89	25 - 150	1	30
cis-1,2-Dichloroethene	2.8	U	28.9	25.9		ug/Kg	☼	90	34 - 137	3	30
trans-1,2-Dichloroethene	2.8	U	28.9	26.4		ug/Kg	☼	92	40 - 126	3	30
1,1-Dichloroethene	5.6	U	28.9	26.9		ug/Kg	☼	93	10 - 179	6	30
1,2-Dichloropropane	5.6	U	28.9	26.2		ug/Kg	☼	91	58 - 118	2	30
cis-1,3-Dichloropropene	5.6	U	28.9	21.5		ug/Kg	☼	74	19 - 121	0	30
trans-1,3-Dichloropropene	5.6	U	28.9	19.2		ug/Kg	☼	66	10 - 136	8	30
2-Hexanone	22	U	57.7	60.8		ug/Kg	☼	105	21 - 141	4	30
Methylene Chloride	10		28.9	40.2		ug/Kg	☼	105	10 - 148	4	30
4-Methyl-2-pentanone (MIBK)	22	U	57.7	56.4		ug/Kg	☼	98	19 - 151	6	30
Methyl tert-butyl ether	5.6	U	28.9	27.1		ug/Kg	☼	94	26 - 159	3	30
Styrene	5.6	U	28.9	25.1		ug/Kg	☼	87	31 - 137	4	30
1,1,2,2-Tetrachloroethane	5.6	U	28.9	32.9		ug/Kg	☼	114	16 - 158	29	30
Tetrachloroethene	5.6	U	28.9	25.8		ug/Kg	☼	90	19 - 153	12	30
Toluene	5.6	U	28.9	24.9		ug/Kg	☼	86	10 - 168	15	30
1,1,1-Trichloroethane	5.6	U	28.9	26.0		ug/Kg	☼	90	10 - 159	5	30
1,1,2-Trichloroethane	5.6	U	28.9	27.7		ug/Kg	☼	96	34 - 152	12	30
Trichloroethene	5.6	U	28.9	24.5		ug/Kg	☼	85	10 - 193	0	30
Vinyl chloride	11	U	28.9	27.2		ug/Kg	☼	94	15 - 123	3	30
m-Xylene & p-Xylene	5.6		57.7	52.9		ug/Kg	☼	92	14 - 151	11	30
o-Xylene	2.8		28.9	26.5		ug/Kg	☼	92	18 - 151	12	30
Xylenes, Total	5.6	U	86.6	79.4		ug/Kg	☼	92	16 - 150	11	30
Ethylbenzene	5.6	U	28.9	24.9		ug/Kg	☼	86	27 - 143	13	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*89*		*39 - 128*
Toluene-d8 (Surr)	*103*		*33 - 134*
4-Bromofluorobenzene (Surr)	*86*		*26 - 141*
Dibromofluoromethane (Surr)	*94*		*37 - 122*

GC/MS VOA

Analysis Batch: 90776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-1	SB1-4-0613	Total/NA	Solid	8260A	90815
240-25766-2	SB2-4-0613	Total/NA	Solid	8260A	90815
240-25766-3	SB3-4-0613	Total/NA	Solid	8260A	90815
240-25766-4	SB4-3-0613	Total/NA	Solid	8260A	90815
240-25766-4 MS	SB4-3-0613	Total/NA	Solid	8260A	90815
240-25766-4 MSD	SB4-3-0613	Total/NA	Solid	8260A	90815
240-25766-5	SB4-8-0613	Total/NA	Solid	8260A	90815
240-25766-6	SB5-3-0613	Total/NA	Solid	8260A	90815
240-25766-7	SB6-4-0613	Total/NA	Solid	8260A	90815
240-25766-8	SB7-4-0613	Total/NA	Solid	8260A	90815
240-25766-9	SB8-4-0613	Total/NA	Solid	8260A	90815
240-25766-10	SB9-6-0613	Total/NA	Solid	8260A	90815
240-25766-12	SB11-3-0613	Total/NA	Solid	8260A	90815
240-25766-13	SB12-3-0613	Total/NA	Solid	8260A	90815
240-25766-14	SB13-4-0613	Total/NA	Solid	8260A	90815
240-25766-16	SB15-4-0613	Total/NA	Solid	8260A	90815
240-25766-18	SB17-3-0613	Total/NA	Solid	8260A	90815
240-25766-19	SB18-4-0613	Total/NA	Solid	8260A	90815
240-25766-20	SB19-5-0613	Total/NA	Solid	8260A	90815
LCS 240-90776/5	Lab Control Sample	Total/NA	Solid	8260A	
MB 240-90776/6	Method Blank	Total/NA	Solid	8260A	

Prep Batch: 90815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-1	SB1-4-0613	Total/NA	Solid	5030B	
240-25766-2	SB2-4-0613	Total/NA	Solid	5030B	
240-25766-3	SB3-4-0613	Total/NA	Solid	5030B	
240-25766-4	SB4-3-0613	Total/NA	Solid	5030B	
240-25766-4 MS	SB4-3-0613	Total/NA	Solid	5030B	
240-25766-4 MSD	SB4-3-0613	Total/NA	Solid	5030B	
240-25766-5	SB4-8-0613	Total/NA	Solid	5030B	
240-25766-6	SB5-3-0613	Total/NA	Solid	5030B	
240-25766-7	SB6-4-0613	Total/NA	Solid	5030B	
240-25766-8	SB7-4-0613	Total/NA	Solid	5030B	
240-25766-9	SB8-4-0613	Total/NA	Solid	5030B	
240-25766-10	SB9-6-0613	Total/NA	Solid	5030B	
240-25766-12	SB11-3-0613	Total/NA	Solid	5030B	
240-25766-13	SB12-3-0613	Total/NA	Solid	5030B	
240-25766-14	SB13-4-0613	Total/NA	Solid	5030B	
240-25766-16	SB15-4-0613	Total/NA	Solid	5030B	
240-25766-18	SB17-3-0613	Total/NA	Solid	5030B	
240-25766-19	SB18-4-0613	Total/NA	Solid	5030B	
240-25766-20	SB19-5-0613	Total/NA	Solid	5030B	

Analysis Batch: 91080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-2	SB2-4-0613	Total/NA	Solid	8260A	91117
240-25766-7	SB6-4-0613	Total/NA	Solid	8260A	91117
240-25766-15	SB14-3-0613	Total/NA	Solid	8260A	91117
240-25766-17	SB16-3-0613	Total/NA	Solid	8260A	91117
240-25766-21	SB20-2-0613	Total/NA	Solid	8260A	91117

GC/MS VOA (Continued)

Analysis Batch: 91080 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-22	SB21-3-0613	Total/NA	Solid	8260A	91117
240-25766-22 MS	SB21-3-0613	Total/NA	Solid	8260A	91117
240-25766-22 MSD	SB21-3-0613	Total/NA	Solid	8260A	91117
240-25766-23	SB22-3-0613	Total/NA	Solid	8260A	91117
240-25766-24	SB23-4-0613	Total/NA	Solid	8260A	91117
240-25766-26	SB25-3-0613	Total/NA	Solid	8260A	91117
240-25766-27	SB26-2-0613	Total/NA	Solid	8260A	91117
240-25766-28	SB27-1-0613	Total/NA	Solid	8260A	91117
240-25766-29	SB28-3-0613	Total/NA	Solid	8260A	91117
240-25766-30	SB29-3-0613	Total/NA	Solid	8260A	91117
240-25766-31	SB30-3-0613	Total/NA	Solid	8260A	91117
240-25766-32	SB30-9-0613	Total/NA	Solid	8260A	91117
LCS 240-91080/5	Lab Control Sample	Total/NA	Solid	8260A	
MB 240-91080/6	Method Blank	Total/NA	Solid	8260A	

Prep Batch: 91117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-2	SB2-4-0613	Total/NA	Solid	5030B	
240-25766-7	SB6-4-0613	Total/NA	Solid	5030B	
240-25766-15	SB14-3-0613	Total/NA	Solid	5030B	
240-25766-17	SB16-3-0613	Total/NA	Solid	5030B	
240-25766-21	SB20-2-0613	Total/NA	Solid	5030B	
240-25766-22	SB21-3-0613	Total/NA	Solid	5030B	
240-25766-22 MS	SB21-3-0613	Total/NA	Solid	5030B	
240-25766-22 MSD	SB21-3-0613	Total/NA	Solid	5030B	
240-25766-23	SB22-3-0613	Total/NA	Solid	5030B	
240-25766-24	SB23-4-0613	Total/NA	Solid	5030B	
240-25766-26	SB25-3-0613	Total/NA	Solid	5030B	
240-25766-27	SB26-2-0613	Total/NA	Solid	5030B	
240-25766-28	SB27-1-0613	Total/NA	Solid	5030B	
240-25766-29	SB28-3-0613	Total/NA	Solid	5030B	
240-25766-30	SB29-3-0613	Total/NA	Solid	5030B	
240-25766-31	SB30-3-0613	Total/NA	Solid	5030B	
240-25766-32	SB30-9-0613	Total/NA	Solid	5030B	

Analysis Batch: 91400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-11	SB10-4-0613	Total/NA	Solid	8260A	91407
240-25766-11	SB10-4-0613	Total/NA	Solid	8260A	91407
240-25766-25	SB24-4-0613	Total/NA	Solid	8260A	91407
240-25766-33	SB31-4-0613	Total/NA	Solid	8260A	91407
240-25766-34	SB32-1-0613	Total/NA	Solid	8260A	91407
240-25766-34 MS	SB32-1-0613	Total/NA	Solid	8260A	91407
240-25766-34 MSD	SB32-1-0613	Total/NA	Solid	8260A	91407
LCS 240-91400/5	Lab Control Sample	Total/NA	Solid	8260A	
MB 240-91400/6	Method Blank	Total/NA	Solid	8260A	

Prep Batch: 91407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-11	SB10-4-0613	Total/NA	Solid	5030B	
240-25766-11	SB10-4-0613	Total/NA	Solid	5030B	

GC/MS VOA (Continued)

Prep Batch: 91407 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-25	SB24-4-0613	Total/NA	Solid	5030B	
240-25766-33	SB31-4-0613	Total/NA	Solid	5030B	
240-25766-34	SB32-1-0613	Total/NA	Solid	5030B	
240-25766-34 MS	SB32-1-0613	Total/NA	Solid	5030B	
240-25766-34 MSD	SB32-1-0613	Total/NA	Solid	5030B	

General Chemistry

Analysis Batch: 90516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-25766-1	SB1-4-0613	Total/NA	Solid	Moisture	
240-25766-1 DU	SB1-4-0613	Total/NA	Solid	Moisture	
240-25766-2	SB2-4-0613	Total/NA	Solid	Moisture	
240-25766-3	SB3-4-0613	Total/NA	Solid	Moisture	
240-25766-4	SB4-3-0613	Total/NA	Solid	Moisture	
240-25766-5	SB4-8-0613	Total/NA	Solid	Moisture	
240-25766-6	SB5-3-0613	Total/NA	Solid	Moisture	
240-25766-7	SB6-4-0613	Total/NA	Solid	Moisture	
240-25766-8	SB7-4-0613	Total/NA	Solid	Moisture	
240-25766-9	SB8-4-0613	Total/NA	Solid	Moisture	
240-25766-10	SB9-6-0613	Total/NA	Solid	Moisture	
240-25766-11	SB10-4-0613	Total/NA	Solid	Moisture	
240-25766-11 DU	SB10-4-0613	Total/NA	Solid	Moisture	
240-25766-12	SB11-3-0613	Total/NA	Solid	Moisture	
240-25766-13	SB12-3-0613	Total/NA	Solid	Moisture	
240-25766-14	SB13-4-0613	Total/NA	Solid	Moisture	
240-25766-15	SB14-3-0613	Total/NA	Solid	Moisture	
240-25766-16	SB15-4-0613	Total/NA	Solid	Moisture	
240-25766-17	SB16-3-0613	Total/NA	Solid	Moisture	
240-25766-18	SB17-3-0613	Total/NA	Solid	Moisture	
240-25766-19	SB18-4-0613	Total/NA	Solid	Moisture	
240-25766-20	SB19-5-0613	Total/NA	Solid	Moisture	
240-25766-21	SB20-2-0613	Total/NA	Solid	Moisture	
240-25766-21 DU	SB20-2-0613	Total/NA	Solid	Moisture	
240-25766-22	SB21-3-0613	Total/NA	Solid	Moisture	
240-25766-23	SB22-3-0613	Total/NA	Solid	Moisture	
240-25766-24	SB23-4-0613	Total/NA	Solid	Moisture	
240-25766-25	SB24-4-0613	Total/NA	Solid	Moisture	
240-25766-26	SB25-3-0613	Total/NA	Solid	Moisture	
240-25766-27	SB26-2-0613	Total/NA	Solid	Moisture	
240-25766-28	SB27-1-0613	Total/NA	Solid	Moisture	
240-25766-29	SB28-3-0613	Total/NA	Solid	Moisture	
240-25766-30	SB29-3-0613	Total/NA	Solid	Moisture	
240-25766-31	SB30-3-0613	Total/NA	Solid	Moisture	
240-25766-31 DU	SB30-3-0613	Total/NA	Solid	Moisture	
240-25766-32	SB30-9-0613	Total/NA	Solid	Moisture	
240-25766-33	SB31-4-0613	Total/NA	Solid	Moisture	
240-25766-34	SB32-1-0613	Total/NA	Solid	Moisture	

Client Sample ID: SB1-4-0613

Lab Sample ID: 240-25766-1

Date Collected: 06/13/13 10:15

Matrix: Solid

Date Received: 06/15/13 12:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 10:28	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB2-4-0613

Lab Sample ID: 240-25766-2

Date Collected: 06/13/13 10:40

Matrix: Solid

Date Received: 06/15/13 12:40

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 10:52	SAM	TAL CAN
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 20:34	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB3-4-0613

Lab Sample ID: 240-25766-3

Date Collected: 06/13/13 11:05

Matrix: Solid

Date Received: 06/15/13 12:40

Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 11:15	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB4-3-0613

Lab Sample ID: 240-25766-4

Date Collected: 06/13/13 11:30

Matrix: Solid

Date Received: 06/15/13 12:40

Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 11:39	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB4-8-0613

Lab Sample ID: 240-25766-5

Date Collected: 06/13/13 11:35

Matrix: Solid

Date Received: 06/15/13 12:40

Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 12:50	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB5-3-0613

Lab Sample ID: 240-25766-6
Date Collected: 06/13/13 11:55
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 13:14	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB6-4-0613

Lab Sample ID: 240-25766-7
Date Collected: 06/13/13 12:55
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 78.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 13:37	SAM	TAL CAN
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 22:33	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB7-4-0613

Lab Sample ID: 240-25766-8
Date Collected: 06/13/13 13:15
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 14:01	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB8-4-0613

Lab Sample ID: 240-25766-9
Date Collected: 06/13/13 13:45
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 14:25	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB9-6-0613

Lab Sample ID: 240-25766-10
Date Collected: 06/13/13 14:10
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 14:49	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB10-4-0613

Lab Sample ID: 240-25766-11

Date Collected: 06/13/13 14:50
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91407	06/26/13 04:59	TJL2	TAL CAN
Total/NA	Analysis	8260A		1	91400	06/26/13 11:43	TJL2	TAL CAN
Total/NA	Prep	5030B			91407	06/26/13 02:31	TJL2	TAL CAN
Total/NA	Analysis	8260A		1	91400	06/26/13 03:34	TJL2	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB11-3-0613

Lab Sample ID: 240-25766-12

Date Collected: 06/13/13 15:10
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 15:36	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB12-3-0613

Lab Sample ID: 240-25766-13

Date Collected: 06/13/13 15:30
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 15:59	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB13-4-0613

Lab Sample ID: 240-25766-14

Date Collected: 06/13/13 15:55
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 16:23	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB14-3-0613

Lab Sample ID: 240-25766-15

Date Collected: 06/13/13 16:15
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 21:45	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB15-4-0613

Lab Sample ID: 240-25766-16

Date Collected: 06/13/13 16:45
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 72.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 17:10	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB16-3-0613

Lab Sample ID: 240-25766-17

Date Collected: 06/14/13 07:35
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 71.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 22:09	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB17-3-0613

Lab Sample ID: 240-25766-18

Date Collected: 06/14/13 07:50
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 70.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 17:58	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB18-4-0613

Lab Sample ID: 240-25766-19

Date Collected: 06/14/13 08:05
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 75.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 18:21	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB19-5-0613

Lab Sample ID: 240-25766-20

Date Collected: 06/14/13 08:20
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 81.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			90815	06/21/13 09:01	SAM	TAL CAN
Total/NA	Analysis	8260A		1	90776	06/21/13 18:45	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB20-2-0613

Lab Sample ID: 240-25766-21

Date Collected: 06/14/13 08:40
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 14:16	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB21-3-0613

Lab Sample ID: 240-25766-22

Date Collected: 06/14/13 08:55
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 76.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 14:39	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB22-3-0613

Lab Sample ID: 240-25766-23

Date Collected: 06/14/13 09:10
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 15:51	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB23-4-0613

Lab Sample ID: 240-25766-24

Date Collected: 06/14/13 09:25
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 74.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 16:14	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB24-4-0613

Lab Sample ID: 240-25766-25

Date Collected: 06/14/13 09:35
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91407	06/26/13 04:59	TJL2	TAL CAN
Total/NA	Analysis	8260A		1	91400	06/26/13 12:25	TJL2	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB25-3-0613

Lab Sample ID: 240-25766-26

Date Collected: 06/14/13 09:55
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 75.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 17:01	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB26-2-0613

Lab Sample ID: 240-25766-27

Date Collected: 06/14/13 10:30
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 17:25	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB27-1-0613

Lab Sample ID: 240-25766-28

Date Collected: 06/14/13 10:40
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 17:49	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB28-3-0613

Lab Sample ID: 240-25766-29

Date Collected: 06/14/13 10:50
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 18:12	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB29-3-0613

Lab Sample ID: 240-25766-30

Date Collected: 06/14/13 11:05
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 18:36	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Client Sample ID: SB30-3-0613

Lab Sample ID: 240-25766-31

Date Collected: 06/14/13 11:20
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 19:00	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB30-9-0613

Lab Sample ID: 240-25766-32

Date Collected: 06/14/13 11:20
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91117	06/24/13 12:45	SAM	TAL CAN
Total/NA	Analysis	8260A		1	91080	06/24/13 19:23	SAM	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB31-4-0613

Lab Sample ID: 240-25766-33

Date Collected: 06/14/13 11:30
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91407	06/26/13 02:31	TJL2	TAL CAN
Total/NA	Analysis	8260A		1	91400	06/26/13 02:52	TJL2	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Client Sample ID: SB32-1-0613

Lab Sample ID: 240-25766-34

Date Collected: 06/14/13 11:45
Matrix: Solid
Date Received: 06/15/13 12:40
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			91407	06/26/13 02:31	TJL2	TAL CAN
Total/NA	Analysis	8260A		1	91400	06/26/13 03:13	TJL2	TAL CAN
Total/NA	Analysis	Moisture		1	90516	06/19/13 13:32	JAK	TAL CAN

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: OVAP Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-25766-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAP	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAP	5	200004	07-31-13
Kansas	NELAP	7	E-10336	01-31-14
Kentucky	State Program	4	58	06-30-13
L-A-B	DoD ELAP		L2315	07-28-13
Minnesota	NELAP	5	039-999-348	12-31-13
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAP	2	OH001	06-30-13
New York	NELAP	2	10975	04-01-14
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAP	3	68-00340	08-31-13
Texas	NELAP	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAP	3	460175	09-14-13
Washington	State Program	10	C971	01-12-14
West Virginia DEP	State Program	3	210	12-31-13
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: TETRA TECH	Client Project Manager: CARL RHODES	Site Contact:	Lab Contact:	COC No: 57340
Address: 250 W Court St. 200W	Telephone: 513-333-3660	Telephone:	Telephone:	____ of ____ COCs
City/State/Zip: CINCINNATI	Email: CARL.RHODES@TETRATECH.COM	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 513-241-6149		TAT if different from below ☐ 3 weeks ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: MANSFIELD RACE TRUST	Method of Shipment/Carrier: FED EX			Job/SDG No:
Project Number:	Shipping/Tracking No:			
PO #				Sample Specific Notes / Special Instructions:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: None	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: VOC 8260
SB1-4-0613	6/13/13	1015				X										G	X
SB2-4-0613		1040															
SB3-4-0613		1105															
SB4-3-0613		1130															
SB4-8-0613		1135															
SB5-3-0613		1155															
SB6-4-0613		1255															
SB7-4-0613		1315															
SB8-4-0613		1345															
SB9-6-0613		1410															

240-25766 Chain of Custody

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company	Date/Time	Received by	Company	Date/Time
Relinquished by:	TETRA TECH	6/14/13 1300		TA	6-15-13 1240
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	**Received in Laboratory by:**	Company:	Date/Time:

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 57338
Address:	Telephone:	Telephone:	Telephone:	2 of 3 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: MeOH	Filtered Sample (Y / N)	Composite=C / Grab=G	VOC 8260												Sample Specific Notes / Special Instructions:
SB10-4-0613	6/13/13	1450				X								1			X												
SB11-3-0613	↓	1510				↓								↓			↓												
SB12-3-0613		1530																											
SB13-4-0613		1555																											
SB14-3-0613		1615																											
SB15-4-0613	↓	1645																											—
SB16-3-0613	6/14/13	735																											
SB17-3-0613	↓	750																											
SB18-4-0613		805																											
SB19.5-0613	↓	820				↓								↓			↓												

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company: GEMA HEIH	Date/Time: 6/14/13 1300	Received by:	Company: TA	Date/Time: 6-15-13 1240
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	**Received in Laboratory by:**	Company:	Date/Time:

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 57339
Address:	Telephone:	Telephone:	Telephone:	3 of 3 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUSINESS days)	Analyses	For lab use only
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: None	Filtered Sample (Y/N)	Composite=C / Grab=G	VOC 8260	Sample Specific Notes / Special Instructions:
SB-20-2-0613	6/14/13	840				X								1		G	X	
SB-21-3-0613		855																
SB22-3-0613		910																
SB23-4-0613		925																
SB24-4-0613		935																
SB25-3-0613		955																
SB26-2-0613		1030																
SB27-1-0613		1040																
SB28-3-0613		1050																
SB29-3-0613		1105																

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

SB30-3-0613	6/14/13	1120			S		1	G	X
SB30-9-0613	6/14/13	1120			S		1	G	X

Relinquished by:	Company: TETRA TECH	Date/Time: 6/14/13 1300	Received by:	Company: TA	Date/Time: 6-15-13 1240
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

SB31-4-0613	6/14/13	1130			S		1	G	X
SB32-1-0613	6/14/13	1145			S		1	G	X

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TAL 0018- 1 (04/10)

6/30/2013

TestAmerica Canton Sample Receipt Form/Narrative **Login # :** _____
Canton Facility

Client Tetra Tech Site Name _____ Cooler unpacked by:

Cooler Received on 6-15-13 Opened on 6-15-13

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # _____ Foam Box (Client Cooler) Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# A	(CF –1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	☐ See Multiple Cooler Form
IR GUN# 4	(CF 0 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 5	(CF +1 °C) Observed Cooler Temp. _____ °C	Corrected Cooler Temp. _____ °C	
IR GUN# 8	(CF -0 °C) Observed Cooler Temp. 0.9 °C	Corrected Cooler Temp. 0.9 °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes)	No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes)	No NA
-Were custody seals on the bottle(s)?	Yes	(No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes)	No
4. Did custody papers accompany the sample(s)?	(Yes)	No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes)	No
6. Did all bottles arrive in good condition (Unbroken)?	(Yes)	No
7. Could all bottle labels be reconciled with the COC?	(Yes)	No
8. Were correct bottle(s) used for the test(s) indicated?	(Yes)	No
9. Sufficient quantity received to perform indicated analyses?	(Yes)	No
10. Were sample(s) at the correct pH upon receipt?	Yes No	(NA) pH Strip Lot# HC376062
11. Were VOAs on the COC?	Yes	(No)
12. Were air bubbles >6 mm in any VOA vials?	Yes No	(NA)
13. Was a trip blank present in the cooler(s)?	Yes	(No)

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s): _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

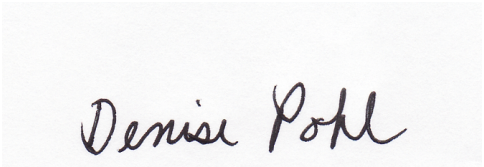
MANSFIELD STAMPING PLANT

Lot #: A1D060589

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
4/28/2011 11:07 AM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

April 28, 2011

CASE NARRATIVE

A1D060589

The following report contains the analytical results for three solid samples submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site. The samples were received April 06, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnaphthalene by 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort and Martin Smith on April 19, 2011, and Guy Montfort, Martin Smith, and Vicky Farmer on April 25, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

CASE NARRATIVE (continued)

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.8°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SB102-HAZ-30-0411 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 1104183 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Batch(es) 1101156 had recoveries and/or RPDs out high in the LCS. Since there were no target analytes detected in any of the associated samples, no corrective action was necessary.

CASE NARRATIVE (continued)

GC/MS VOLATILES (continued)

Sample(s) SB16-SSA-15-0411 was reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 1097072 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The matrix spike/matrix spike duplicate(s) for SB16-SSA-15-0411 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate associated with batch(es) 1110133 needed to be rerun; therefore, this batch is being reported with an LCS only.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

CASE NARRATIVE (continued)

METALS (continued)

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D060589

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB101-HAZ-20-0411 04/05/11 13:55 001				
Mercury	0.022 B	0.11	mg/kg	SW846 7471A
Arsenic	19.1	0.91	mg/kg	SW846 6010B
Lead	15.0	0.27	mg/kg	SW846 6010B
Selenium	0.81	0.46	mg/kg	SW846 6010B
Barium	40.1 J	18.2	mg/kg	SW846 6010B
Chromium	12.9	0.91	mg/kg	SW846 6010B
Acetone	9.2 J,B	23	ug/kg	SW846 8260A
Chloroethane	1.8 J	12	ug/kg	SW846 8260A
Methylene chloride	5.5 J,B	5.8	ug/kg	SW846 8260A
Percent Solids	86.7	10.0	%	MCAWW 160.3 MOD
SB16-SSA-15-0411 04/05/11 09:00 002				
C20-C34	150	19	mg/kg	SW846 8015B
C10-C20	130	19	mg/kg	SW846 8015B
Arsenic	11.0	1.1	mg/kg	SW846 6010B
Lead	8.6	0.32	mg/kg	SW846 6010B
Barium	33.4 J	21.0	mg/kg	SW846 6010B
Chromium	12.6	1.1	mg/kg	SW846 6010B
Fluoranthene	22	7.5	ug/kg	SW846 8270C
1-Methylnaphthalene	65	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	46	7.5	ug/kg	SW846 8270C
Phenanthrene	67	7.5	ug/kg	SW846 8270C
Pyrene	26	7.5	ug/kg	SW846 8270C
Acetone	22 J,B	23	ug/kg	SW846 8260A
Benzene	0.82 J	5.7	ug/kg	SW846 8260A
Carbon disulfide	1.5 J	5.7	ug/kg	SW846 8260A
Chloromethane	0.54 J	11	ug/kg	SW846 8260A
Methylene chloride	7.1 B	5.7	ug/kg	SW846 8260A
Percent Solids	88.5	10.0	%	MCAWW 160.3 MOD
SB102-HAZ-30-0411 04/05/11 16:12 003				
Mercury	0.030 B	0.11	mg/kg	SW846 7471A
Arsenic	16.6	1.1	mg/kg	SW846 6010B
Lead	14.7	0.33	mg/kg	SW846 6010B
Selenium	0.76	0.55	mg/kg	SW846 6010B
Barium	47.5 J	22.1	mg/kg	SW846 6010B
Chromium	12.7	1.1	mg/kg	SW846 6010B
Acetone	200 B	23	ug/kg	SW846 8260A
2-Butanone	32	23	ug/kg	SW846 8260A
1,2-Dichloroethane	0.43 J	5.8	ug/kg	SW846 8260A
Methylene chloride	6.5 B	5.8	ug/kg	SW846 8260A

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EXECUTIVE SUMMARY - Detection Highlights

A1D060589

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB102-HAZ-30-0411 04/05/11 16:12 003				
Toluene	0.37 J	5.8	ug/kg	SW846 8260A
Percent Solids	86.2	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A1D060589

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D060589

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MGMKD	001	SB101-HAZ-20-0411	04/05/11	13:55
MGMKQ	002	SB16-SSA-15-0411	04/05/11	09:00
MGMND	003	SB102-HAZ-30-0411	04/05/11	16:12

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-001 **Work Order #...:** MGMKD1AC **Matrix.....:** SO
Date Sampled...: 04/05/11 13:55 **Date Received..:** 04/06/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/08/11
Prep Batch #...: 1101156
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**9.2 J,B**	**23**	**ug/kg**	**7.3**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.32
Bromoform	ND	5.8	ug/kg	0.38
Bromomethane	ND	12	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.8	ug/kg	0.51
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.38
Dibromochloromethane	ND	5.8	ug/kg	0.63
Chloroethane	**1.8 J**	**12**	**ug/kg**	**0.99**
Chloroform	ND	5.8	ug/kg	0.33
Chloromethane	ND	12	ug/kg	0.47
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.5
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
1,2-Dichlorobenzene	ND	5.8	ug/kg	0.42
1,3-Dichlorobenzene	ND	5.8	ug/kg	0.40
1,4-Dichlorobenzene	ND	5.8	ug/kg	0.76
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.42
1,2-Dichloroethane	ND	5.8	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.8	ug/kg	0.60
1,2-Dichloropropane	ND	5.8	ug/kg	0.80
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.62
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.73
Isopropylbenzene	ND	5.8	ug/kg	0.18
Methylene chloride	**5.5 J,B**	**5.8**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.50
Styrene	ND	5.8	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-001 **Work Order #...:** MGMKD1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.8	ug/kg	0.60
Toluene	ND	5.8	ug/kg	0.31
1,2,4-Trichloro-benzene	ND	5.8	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.45
Trichloroethene	ND	5.8	ug/kg	0.48
Trichlorofluoromethane	ND	12	ug/kg	0.39
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.8	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	98	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D060589-001 **Work Order #...:** MGMKD1AN **Matrix.....:** SO
Date Sampled...: 04/05/11 13:55 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1097072
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	ND	7.7	ug/kg	3.8
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	ND	7.7	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	ND	7.7	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	ND	7.7	ug/kg	3.8
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	ND	7.7	ug/kg	3.8
2-Methylnaphthalene	ND	7.7	ug/kg	3.8
Naphthalene	ND	7.7	ug/kg	3.8
Phenanthrene	ND	7.7	ug/kg	3.8
Pyrene	ND	7.7	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(24 - 112)
2-Fluorobiphenyl	57	(34 - 110)
Terphenyl-d14	86	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	65	(26 - 110)
2,4,6-Tribromophenol	49	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

GC Semivolatiles

Lot-Sample #...: A1D060589-001 **Work Order #...:** MGMKD1AM **Matrix.....:** SO
Date Sampled...: 04/05/11 13:55 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1097055
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(10 - 196)
Decachlorobiphenyl	82	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

TOTAL Metals

Lot-Sample #...: A1D060589-001 **Matrix.....:** SO
Date Sampled...: 04/05/11 13:55 **Date Received..:** 04/06/11
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1097034						
Arsenic	**19.1**	**0.91**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKD1AE**
		Dilution Factor: 0.79		MDL.....: 0.27		
Lead	**15.0**	**0.27**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKD1AF**
		Dilution Factor: 0.79		MDL.....: 0.17		
Barium	**40.1 J**	**18.2**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKD1AH**
		Dilution Factor: 0.79		MDL.....: 0.065		
Selenium	**0.81**	**0.46**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKD1AG**
		Dilution Factor: 0.79		MDL.....: 0.41		
Cadmium	ND	0.46	mg/kg	SW846 6010B	04/07-04/14/11	MGMKD1AJ
		Dilution Factor: 0.79		MDL.....: 0.033		
Chromium	**12.9**	**0.91**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKD1AK**
		Dilution Factor: 0.79		MDL.....: 0.18		
Silver	ND	0.91	mg/kg	SW846 6010B	04/07-04/14/11	MGMKD1AL
		Dilution Factor: 0.79		MDL.....: 0.091		
Mercury	**0.022 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/07-04/13/11**	**MGMKD1AD**
		Dilution Factor: 0.92		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB101-HAZ-20-0411

General Chemistry

Lot-Sample #...: A1D060589-001 **Work Order #...:** MGMKD **Matrix.....:** SO
Date Sampled...: 04/05/11 13:55 **Date Received..:** 04/06/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/07-04/08/11**	**1097264**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ1AD **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/08/11
Prep Batch #...: 1101156
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**22 J,B**	**23**	**ug/kg**	**7.1**
Benzene	**0.82 J**	**5.7**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**1.5 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chloroethane	ND	11	ug/kg	0.97
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	**0.54 J**	**11**	**ug/kg**	**0.46**
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.7	ug/kg	0.59
1,2-Dichloropropane	ND	5.7	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.38
n-Hexane	ND	5.7	ug/kg	1.4
Methylene chloride	**7.1 B**	**5.7**	**ug/kg**	**0.76**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.63
Trichloroethene	ND	5.7	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.3	ug/kg	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	119	(30 - 122)
1,2-Dichloroethane-d4	125	(39 - 128)
Toluene-d8	110	(33 - 134)
4-Bromofluorobenzene	123	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ2AD **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104183
Dilution Factor: 10
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	57	ug/kg	3.7
Chlorobenzene	ND	57	ug/kg	3.7
Dibromochloromethane	ND	57	ug/kg	6.2
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	15
1,2-Dibromoethane	ND	57	ug/kg	5.7
1,2-Dichlorobenzene	ND	57	ug/kg	4.1
1,3-Dichlorobenzene	ND	57	ug/kg	4.0
1,4-Dichlorobenzene	ND	57	ug/kg	7.5
trans-1,3-Dichloropropene	ND	57	ug/kg	6.1
Ethylbenzene	ND	57	ug/kg	2.9
2-Hexanone	ND	230	ug/kg	7.1
Isopropylbenzene	ND	57	ug/kg	1.8
4-Methyl-2-pentanone	ND	230	ug/kg	6.1
Styrene	ND	57	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	57	ug/kg	3.8
Tetrachloroethene	ND	57	ug/kg	5.9
Toluene	ND	57	ug/kg	3.1
1,2,4-Trichloro-benzene	ND	57	ug/kg	3.1
1,1,2-Trichloroethane	ND	57	ug/kg	4.4
Xylenes (total)	ND	57	ug/kg	7.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	97	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	124	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ1AP **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1097072
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	ND	7.5	ug/kg	1.2
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	**22**	**7.5**	**ug/kg**	**3.7**
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**65**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**46**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**67**	**7.5**	**ug/kg**	**3.7**
Pyrene	**26**	**7.5**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	57	(34 - 110)
Terphenyl-d14	75	(41 - 119)
Phenol-d5	54	(28 - 110)
2-Fluorophenol	59	(26 - 110)
2,4,6-Tribromophenol	25	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC Volatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ1AQ **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1110133
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	74	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC Semivolatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ1AR **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/12/11
Prep Batch #...: 1097060
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**150**	**19**	**mg/kg**	**10**
C10-C20	**130**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

GC Semivolatiles

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ1AN **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1097055
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	71	(10 - 196)
Decachlorobiphenyl	78	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

TOTAL Metals

Lot-Sample #...: A1D060589-002 **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1097034						
Arsenic	**11.0**	**1.1**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKQ1AF**
		Dilution Factor: 0.93		MDL.....: 0.32		
Lead	**8.6**	**0.32**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKQ1AG**
		Dilution Factor: 0.93		MDL.....: 0.20		
Barium	**33.4 J**	**21.0**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKQ1AJ**
		Dilution Factor: 0.93		MDL.....: 0.075		
Selenium	ND	0.53	mg/kg	SW846 6010B	04/07-04/14/11	MGMKQ1AH
		Dilution Factor: 0.93		MDL.....: 0.47		
Cadmium	ND	0.53	mg/kg	SW846 6010B	04/07-04/14/11	MGMKQ1AK
		Dilution Factor: 0.93		MDL.....: 0.038		
Chromium	**12.6**	**1.1**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMKQ1AL**
		Dilution Factor: 0.93		MDL.....: 0.21		
Silver	ND	1.1	mg/kg	SW846 6010B	04/07-04/14/11	MGMKQ1AM
		Dilution Factor: 0.93		MDL.....: 0.11		
Mercury	ND	0.10	mg/kg	SW846 7471A	04/07-04/13/11	MGMKQ1AE
		Dilution Factor: 0.91		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB16-SSA-15-0411

General Chemistry

Lot-Sample #...: A1D060589-002 **Work Order #...:** MGMKQ **Matrix.....:** SO
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/07-04/08/11**	**1097264**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-003 **Work Order #...:** MGMND1AC **Matrix.....:** SO
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/08/11
Prep Batch #...: 1101156
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**200 B**	**23**	**ug/kg**	**7.3**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.32
Bromoform	ND	5.8	ug/kg	0.38
Bromomethane	ND	12	ug/kg	0.63
2-Butanone	**32**	**23**	**ug/kg**	**1.6**
Carbon disulfide	ND	5.8	ug/kg	0.51
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.38
Dibromochloromethane	ND	5.8	ug/kg	0.64
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.8	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.5
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
1,2-Dichlorobenzene	ND	5.8	ug/kg	0.42
1,3-Dichlorobenzene	ND	5.8	ug/kg	0.41
1,4-Dichlorobenzene	ND	5.8	ug/kg	0.77
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.42
1,2-Dichloroethane	**0.43 J**	**5.8**	**ug/kg**	**0.39**
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.48
1,1-Dichloroethene	ND	5.8	ug/kg	0.60
1,2-Dichloropropane	ND	5.8	ug/kg	0.80
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.63
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.73
Isopropylbenzene	ND	5.8	ug/kg	0.19
Methylene chloride	**6.5 B**	**5.8**	**ug/kg**	**0.78**
4-Methyl-2-pentanone	ND	23	ug/kg	0.63
Styrene	ND	5.8	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	0.39
Tetrachloroethene	ND	5.8	ug/kg	0.60
Toluene	**0.37 J**	**5.8**	**ug/kg**	**0.31**

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Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

GC/MS Volatiles

Lot-Sample #...: A1D060589-003 **Work Order #...:** MGMND1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2,4-Trichloro-benzene	ND	5.8	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.45
Trichloroethene	ND	5.8	ug/kg	0.49
Trichlorofluoromethane	ND	12	ug/kg	0.39
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.8	ug/kg	0.78

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	104	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D060589-003 **Work Order #...:** MGMND1AN **Matrix.....:** SO
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1097072
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	ND	7.7	ug/kg	3.8
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	ND	7.7	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	ND	7.7	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	ND	7.7	ug/kg	3.8
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	ND	7.7	ug/kg	3.8
2-Methylnaphthalene	ND	7.7	ug/kg	3.8
Naphthalene	ND	7.7	ug/kg	3.8
Phenanthrene	ND	7.7	ug/kg	3.8
Pyrene	ND	7.7	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(24 - 112)
2-Fluorobiphenyl	52	(34 - 110)
Terphenyl-d14	75	(41 - 119)
Phenol-d5	46	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	45	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

GC Semivolatiles

Lot-Sample #...: A1D060589-003 **Work Order #...:** MGMND1AM **Matrix.....:** SO
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1097055
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(10 - 196)
Decachlorobiphenyl	80	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

TOTAL Metals

Lot-Sample #...: A1D060589-003 **Matrix.....:** SO
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1097034						
Arsenic	**16.6**	**1.1**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMND1AE**
		Dilution Factor: 0.95		MDL.....: 0.33		
Lead	**14.7**	**0.33**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMND1AF**
		Dilution Factor: 0.95		MDL.....: 0.21		
Barium	**47.5 J**	**22.1**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMND1AH**
		Dilution Factor: 0.95		MDL.....: 0.078		
Selenium	**0.76**	**0.55**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMND1AG**
		Dilution Factor: 0.95		MDL.....: 0.50		
Cadmium	ND	0.55	mg/kg	SW846 6010B	04/07-04/14/11	MGMND1AJ
		Dilution Factor: 0.95		MDL.....: 0.040		
Chromium	**12.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGMND1AK**
		Dilution Factor: 0.95		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/07-04/14/11	MGMND1AL
		Dilution Factor: 0.95		MDL.....: 0.11		
Mercury	**0.030 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/07-04/13/11**	**MGMND1AD**
		Dilution Factor: 0.95		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB102-HAZ-30-0411

General Chemistry

Lot-Sample #...: A1D060589-003 **Work Order #...:** MGMND **Matrix.....:** SO
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/07-04/08/11**	**1097264**

Dilution Factor: 1 MDL.....: 10.0

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGT341AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D110000-156

Prep Date.....: 04/08/11
Analysis Date..: 04/08/11 **Prep Batch #...:** 1101156
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**8.9 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**4.0 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.0 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGT341AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	85	(33 - 134)
4-Bromofluorobenzene	94	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG1FA1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-183

Prep Date.....: 04/13/11
Analysis Date..: 04/13/11 **Prep Batch #...:** 1104183
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.33 J**	**5.0**	**ug/kg**	**SW846 8260A**
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	96	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6T1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D070000-072
Prep Date.....: 04/07/11
Analysis Date..: 04/11/11 **Prep Batch #...:** 1097072
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	46	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
Terphenyl-d14	66	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	52	(26 - 110)
2,4,6-Tribromophenol	43	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG81R1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D200000-133
Prep Date.....: 04/19/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1110133
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	**59 J**	**100**	**ug/kg**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	100	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6A1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D070000-060
Prep Date.....: 04/07/11
Analysis Date..: 04/11/11 **Prep Batch #...:** 1097060
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	50	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM551AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D070000-055
Prep Date.....: 04/07/11
Analysis Date..: 04/15/11 **Prep Batch #...:** 1097055
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(10 - 196)
Decachlorobiphenyl	81	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D060589 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D070000-034 **Prep Batch #...:** 1097034						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AD
		Dilution Factor: 1				
Barium	**0.12 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/07-04/14/11**	**MGM5E1AJ**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AE
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AL
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AN
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	04/07-04/14/11	MGM5E1AX
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/07-04/13/11	MGM5E1AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D060589 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MGN5M1AA		MB Lot-Sample #:	A1D070000-264	
	ND	10.0	%	MCAWW 160.3 MOD	04/07-04/08/11	1097264
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGT341AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D110000-156
Prep Date.....: 04/08/11 **Analysis Date..:** 04/08/11
Prep Batch #...: 1101156
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	99	(16 - 156)	SW846 8260A
Benzene	**101**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	108	(61 - 121)	SW846 8260A
Bromodichloromethane	**120**	**(28 - 123)**	**SW846 8260A**
Bromoform	127 a	(10 - 117)	SW846 8260A
Bromomethane	65	(10 - 114)	SW846 8260A
2-Butanone	**110**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**119**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**124 a**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**101**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**117 a**	**(22 - 113)**	**SW846 8260A**
Chloroethane	137 a	(10 - 120)	SW846 8260A
Chloroform	**112**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	120	(40 - 120)	SW846 8260A
Chloromethane	94	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**105**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**111**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	137	(48 - 151)	SW846 8260A
Methyl acetate	101	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**106**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	113	(41 - 133)	SW846 8260A
o-Xylene	**115**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**112**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**103**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	109	(25 - 140)	SW846 8260A
Acetonitrile	103	(15 - 179)	SW846 8260A
Acrolein	111	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**97**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	110	(49 - 126)	SW846 8260A
Bromobenzene	**104**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**116**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**110**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGT341AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D110000-156

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	82	(10 - 110)	SW846 8260A
sec-Butylbenzene	**105**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**106**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**108**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**107**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**108**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**119 a**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**106**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	120	(25 - 123)	SW846 8260A
1,2-Dichloroethane	**118**	**(68 - 119)**	**SW846 8260A**
1,1-Dichloropropene	**112**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	115	(34 - 135)	SW846 8260A
Iodomethane	149 a	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**110**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	112	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**115**	**(56 - 136)**	**SW846 8260A**
Naphthalene	100	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**106**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**107**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**115**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	119	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**102**	**(74 - 124)**	**SW846 8260A**
1,1-Dichloroethene	**106**	**(44 - 143)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**108**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**106**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	137	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**109**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**124 a**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**124 a**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**106**	**(66 - 119)**	**SW846 8260A**
n-Hexane	126	(51 - 144)	SW846 8260A
2-Hexanone	**105**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**112**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**100**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**107**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**129**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGT341AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D110000-156

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**115**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**92**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**109**	**(58 - 131)**	**SW846 8260A**
Toluene	**98**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	123	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**118**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**107**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**114**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	125	(17 - 145)	SW846 8260A
Vinyl chloride	**94**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**113**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	99	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG1FA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-183
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104183
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	73	(25 - 110)	SW846 8260A
Bromomethane	49	(10 - 114)	SW846 8260A
Vinyl chloride	**78**	**(33 - 110)**	**SW846 8260A**
Chloroethane	112	(10 - 120)	SW846 8260A
Methylene chloride	**87**	**(27 - 172)**	**SW846 8260A**
Acetone	82	(16 - 156)	SW846 8260A
Carbon disulfide	**112**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**83**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**93**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	93	(61 - 121)	SW846 8260A
Chloroform	**96**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**97**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**91**	**(10 - 199)**	**SW846 8260A**
Bromoform	124 a	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**94**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**97**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**102**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**99**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**107**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**94**	**(59 - 124)**	**SW846 8260A**
Benzene	**94**	**(70 - 117)**	**SW846 8260A**
Chlorobenzene	**100**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**112**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**94**	**(60 - 125)**	**SW846 8260A**
trans-1,2-Dichloroethene	**92**	**(58 - 121)**	**SW846 8260A**
n-Hexane	98	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**108**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	96	(40 - 120)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**108**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	64	(10 - 110)	SW846 8260A
1,2-Dibromoethane	**112**	**(47 - 123)**	**SW846 8260A**
Trichlorofluoromethane	92	(17 - 145)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG1FA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-183

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorotrifluoroethane	96	(48 - 151)	SW846 8260A
Methyl acetate	84	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**106**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	95	(41 - 133)	SW846 8260A
o-Xylene	**115**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**111**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**103**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	93	(25 - 140)	SW846 8260A
Acetonitrile	85	(15 - 179)	SW846 8260A
Acrolein	89	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**97**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	90	(49 - 126)	SW846 8260A
Bromobenzene	**107**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**98**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**108**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**106**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**104**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**109**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**108**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**105**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**110**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	93	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**96**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	105	(34 - 135)	SW846 8260A
Iodomethane	107	(49 - 134)	SW846 8260A
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**111**	**(56 - 136)**	**SW846 8260A**
Naphthalene	103	(37 - 126)	SW846 8260A
n-Propylbenzene	**106**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**108**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	116	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**110**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**108**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**106**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	96	(48 - 151)	SW846 8260A
trans-1,3-Dichloropropene	**123 a**	**(22 - 122)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG1FA1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-183

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Ethylbenzene	**105**	**(66 - 119)**	**SW846 8260A**
2-Hexanone	**99**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**106**	**(61 - 123)**	**SW846 8260A**
4-Methyl-2-pentanone	**101**	**(49 - 121)**	**SW846 8260A**
Styrene	**115**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**105**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**100**	**(58 - 131)**	**SW846 8260A**
Toluene	**99**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	113	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**111**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**112**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(30 - 122)
1,2-Dichloroethane-d4	92	(39 - 128)
Toluene-d8	104	(33 - 134)
4-Bromofluorobenzene	106	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6T1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D070000-072
Prep Date.....: 04/07/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1097072
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**56**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**55**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	58	(47 - 110)	SW846 8270C
Anthracene	63	(56 - 111)	SW846 8270C
Benzo(a)anthracene	63	(58 - 111)	SW846 8270C
2,4-Dinitrotoluene	**66**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	57	(44 - 115)	SW846 8270C
Benzo(b)fluoranthene	74	(43 - 124)	SW846 8270C
Benzo(ghi)perylene	68	(44 - 120)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**51**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	54	(38 - 122)	SW846 8270C
1,4-Dichlorobenzene	**56**	**(38 - 110)**	**SW846 8270C**
Chrysene	66	(56 - 111)	SW846 8270C
Dibenz(a,h)anthracene	66	(45 - 122)	SW846 8270C
Pentachlorophenol	**47**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	66	(55 - 118)	SW846 8270C
Phenol	**58**	**(39 - 110)**	**SW846 8270C**
Fluorene	58	(51 - 110)	SW846 8270C
Indeno(1,2,3-cd)pyrene	67	(45 - 121)	SW846 8270C
2-Chlorophenol	**60**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	56	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**63**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	66	(46 - 110)	SW846 8270C
Naphthalene	55	(42 - 110)	SW846 8270C
4-Nitrophenol	**68**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	62	(54 - 110)	SW846 8270C
Pyrene	**63**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	57	(42 - 110)	SW846 8270C
1,3-Dichlorobenzene	55	(40 - 110)	SW846 8270C
2,4,5-Trichloro-phenol	65	(42 - 110)	SW846 8270C
4-Methylphenol	62	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6T1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D070000-072

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	56	(50 - 110)	SW846 8270C
bis(2-Chloroethoxy) methane	58	(42 - 110)	SW846 8270C
bis(2-Chloroethyl)-ether	56	(41 - 110)	SW846 8270C
bis(2-Chloroisopropyl) ether	57	(36 - 116)	SW846 8270C
bis(2-Ethylhexyl) phthalate	67	(56 - 123)	SW846 8270C
2,4,6-Trichloro-phenol	63	(37 - 110)	SW846 8270C
2,4-Dichlorophenol	62	(40 - 110)	SW846 8270C
2,4-Dimethylphenol	43	(28 - 110)	SW846 8270C
2,4-Dinitrophenol	44	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	65	(54 - 115)	SW846 8270C
2-Chloronaphthalene	58	(46 - 110)	SW846 8270C
2-Methylphenol	56	(36 - 110)	SW846 8270C
2-Nitroaniline	54	(47 - 124)	SW846 8270C
2-Nitrophenol	59	(35 - 110)	SW846 8270C
3,3'-Dichlorobenzidine	40	(31 - 110)	SW846 8270C
3-Nitroaniline	53	(44 - 110)	SW846 8270C
4,6-Dinitro-2-methylphenol	52	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	66	(53 - 112)	SW846 8270C
4-Chloroaniline	42	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	63	(53 - 110)	SW846 8270C
Butyl benzyl phthalate	66	(57 - 121)	SW846 8270C
Carbazole	62	(56 - 115)	SW846 8270C
Dibenzofuran	59	(50 - 110)	SW846 8270C
Diethyl phthalate	63	(55 - 114)	SW846 8270C
Dimethyl phthalate	62	(54 - 112)	SW846 8270C
Di-n-octyl phthalate	63	(45 - 123)	SW846 8270C
Hexachlorobenzene	65	(51 - 110)	SW846 8270C
Hexachlorobutadiene	56	(39 - 110)	SW846 8270C
Hexachloroethane	54	(38 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6T1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D070000-072

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	55	(46 - 117)	SW846 8270C
Nitrobenzene	56	(40 - 110)	SW846 8270C
N-Nitrosodiphenylamine	55	(54 - 112)	SW846 8270C
Di-n-butyl phthalate	66	(57 - 119)	SW846 8270C
Hexachlorocyclopenta-diene	49	(10 - 110)	SW846 8270C
Benzoic acid	12	(10 - 124)	SW846 8270C
1,4-Dioxane	29	(10 - 110)	SW846 8270C
Pyridine	37	(22 - 110)	SW846 8270C
Atrazine	69	(50 - 130)	SW846 8270C
Acetophenone	57	(50 - 130)	SW846 8270C
1,1'-Biphenyl	55	(50 - 130)	SW846 8270C
Caprolactam	63	(50 - 130)	SW846 8270C
Aniline	36	(10 - 130)	SW846 8270C
Benzyl alcohol	59	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	48	(10 - 130)	SW846 8270C
1,2-Dinitrobenzene	67	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	51	(10 - 130)	SW846 8270C
Benzaldehyde	72	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	57	(36 - 116)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(24 - 112)
2-Fluorobiphenyl	56	(34 - 110)
Terphenyl-d14	72	(41 - 119)
Phenol-d5	60	(28 - 110)
2-Fluorophenol	60	(26 - 110)
2,4,6-Tribromophenol	58	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MG81R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D200000-133
Prep Date.....: 04/19/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1110133
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**114**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	134	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM6A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D070000-060
Prep Date.....: 04/07/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1097060
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**104**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGM551AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D070000-055
Prep Date.....: 04/07/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1097055
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**87**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**83**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(10 - 196)
Decachlorobiphenyl	86	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D060589 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D070000-034 **Prep Batch #...:** 1097034					
Arsenic	91	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1A4
		Dilution Factor: 1			
Lead	94	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1A5
		Dilution Factor: 1			
Selenium	92	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1A6
		Dilution Factor: 1			
Barium	94	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1CA
		Dilution Factor: 1			
Cadmium	94	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1CD
		Dilution Factor: 1			
Chromium	94	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1CF
		Dilution Factor: 1			
Silver	91	(80 - 120)	SW846 6010B	04/07-04/14/11	MGM5E1CP
		Dilution Factor: 1			
Mercury	99	(73 - 121)	SW846 7471A	04/07-04/13/11	MGM5E1A3
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMND1AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-003 MGMND1AQ-MSD
Date Sampled...: 04/05/11 16:12 **Date Received..:** 04/06/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/08/11
Prep Batch #...: 1101156
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	64	(10 - 142)			SW846 8260A
	69	(10 - 142)	2.1	(0-30)	SW846 8260A
Benzene	**100**	**(10 - 199)**			**SW846 8260A**
	103	**(10 - 199)**	**2.3**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**115**	**(18 - 133)**			**SW846 8260A**
	116	**(18 - 133)**	**0.25**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	107	(29 - 139)			SW846 8260A
	108	(29 - 139)	1.3	(0-30)	SW846 8260A
Bromoform	115	(10 - 147)			SW846 8260A
	112	(10 - 147)	2.4	(0-30)	SW846 8260A
Bromomethane	75	(10 - 151)			SW846 8260A
	69	(10 - 151)	7.2	(0-30)	SW846 8260A
2-Butanone	**103**	**(10 - 172)**			**SW846 8260A**
	106	**(10 - 172)**	**2.2**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**127**	**(10 - 155)**			**SW846 8260A**
	116	**(10 - 155)**	**8.9**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**119**	**(12 - 135)**			**SW846 8260A**
	122	**(12 - 135)**	**1.8**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**97**	**(47 - 118)**			**SW846 8260A**
	96	**(47 - 118)**	**1.5**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**112**	**(10 - 128)**			**SW846 8260A**
	111	**(10 - 128)**	**0.45**	**(0-30)**	**SW846 8260A**
Chloroethane	140	(10 - 168)			SW846 8260A
	142	(10 - 168)	1.4	(0-30)	SW846 8260A
Chloroform	**111**	**(51 - 120)**			**SW846 8260A**
	113	**(51 - 120)**	**1.4**	**(0-30)**	**SW846 8260A**
Cyclohexane	117	(10 - 154)			SW846 8260A
	118	(10 - 154)	0.84	(0-30)	SW846 8260A
Chloromethane	95	(16 - 115)			SW846 8260A
	94	(16 - 115)	1.6	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**98**	**(10 - 137)**			**SW846 8260A**
	102	**(10 - 137)**	**4.0**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**111**	**(32 - 127)**			**SW846 8260A**
	109	**(32 - 127)**	**2.0**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	138	(23 - 168)			SW846 8260A
	140	(23 - 168)	1.6	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMND1AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-003 MGMND1AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	116	(10 - 175)			SW846 8260A
	119	(10 - 175)	2.8	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**94**	**(27 - 126)**			**SW846 8260A**
	93	**(27 - 126)**	**1.9**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	104	(11 - 156)			SW846 8260A
	107	(11 - 156)	2.9	(0-30)	SW846 8260A
o-Xylene	**113**	**(18 - 151)**			**SW846 8260A**
	111	**(18 - 151)**	**1.6**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**110**	**(14 - 151)**			**SW846 8260A**
	108	**(14 - 151)**	**1.9**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**97**	**(29 - 124)**			**SW846 8260A**
	93	**(29 - 124)**	**3.4**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	85	(10 - 137)			SW846 8260A
	81	(10 - 137)	4.8	(0-30)	SW846 8260A
Acetonitrile	95	(10 - 173)			SW846 8260A
	98	(10 - 173)	2.9	(0-30)	SW846 8260A
Acrolein	60	(10 - 145)			SW846 8260A
	57	(10 - 145)	5.4	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**89**	**(30 - 123)**			**SW846 8260A**
	86	**(30 - 123)**	**3.0**	**(0-30)**	**SW846 8260A**
Acrylonitrile	100	(28 - 126)			SW846 8260A
	107	(28 - 126)	6.6	(0-30)	SW846 8260A
Cyclohexanone	98	(10 - 199)			SW846 8260A
	101	(10 - 199)	3.7	(0-30)	SW846 8260A
Bromobenzene	**101**	**(49 - 119)**			**SW846 8260A**
	102	**(49 - 119)**	**0.67**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**114**	**(42 - 123)**			**SW846 8260A**
	113	**(42 - 123)**	**1.0**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	86	(10 - 113)			SW846 8260A
	87	(10 - 113)	0.34	(0-30)	SW846 8260A
n-Butylbenzene	**91**	**(13 - 154)**			**SW846 8260A**
	90	**(13 - 154)**	**0.28**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**96**	**(41 - 133)**			**SW846 8260A**
	96	**(41 - 133)**	**0.16**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**102**	**(45 - 132)**			**SW846 8260A**
	101	**(45 - 132)**	**0.91**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**110**	**(18 - 160)**			**SW846 8260A**
	110	**(18 - 160)**	**0.31**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**105**	**(51 - 118)**			**SW846 8260A**
	103	**(51 - 118)**	**2.1**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**104**	**(43 - 120)**			**SW846 8260A**
	102	**(43 - 120)**	**1.9**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMND1AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-003 MGMND1AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromomethane	**114**	**(45 - 121)**			**SW846 8260A**
	116	**(45 - 121)**	**1.5**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**116**	**(25 - 150)**			**SW846 8260A**
	117	**(25 - 150)**	**0.66**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**105**	**(58 - 117)**			**SW846 8260A**
	105	**(58 - 117)**	**0.41**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	117	(26 - 127)			SW846 8260A
	120	(26 - 127)	3.0	(0-30)	SW846 8260A
1,1-Dichloropropene	**114**	**(42 - 126)**			**SW846 8260A**
	114	**(42 - 126)**	**0.18**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	72	(10 - 134)			SW846 8260A
	78	(10 - 134)	7.8	(0-30)	SW846 8260A
cis-1,2-Dichloroethene	**107**	**(34 - 137)**			**SW846 8260A**
	109	**(34 - 137)**	**1.8**	**(0-30)**	**SW846 8260A**
Iodomethane	152 a	(27 - 140)			SW846 8260A
	155 a	(27 - 140)	2.3	(0-30)	SW846 8260A
Isopropyl ether	105	(63 - 111)			SW846 8260A
	107	(63 - 111)	2.0	(0-30)	SW846 8260A
p-Isopropyltoluene	**104**	**(33 - 139)**			**SW846 8260A**
	102	**(33 - 139)**	**1.4**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**107**	**(40 - 126)**			**SW846 8260A**
	108	**(40 - 126)**	**0.76**	**(0-30)**	**SW846 8260A**
Naphthalene	69	(10 - 199)			SW846 8260A
	69	(10 - 199)	0.18	(0-30)	SW846 8260A
n-Propylbenzene	**106**	**(41 - 135)**			**SW846 8260A**
	103	**(41 - 135)**	**2.7**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**113**	**(19 - 124)**			**SW846 8260A**
	113	**(19 - 124)**	**0.42**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethene	**108**	**(10 - 179)**			**SW846 8260A**
	109	**(10 - 179)**	**1.2**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	79	(10 - 123)			SW846 8260A
	80	(10 - 123)	0.40	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**106**	**(54 - 142)**			**SW846 8260A**
	109	**(54 - 142)**	**3.0**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**103**	**(10 - 199)**			**SW846 8260A**
	101	**(10 - 199)**	**1.6**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**104**	**(10 - 173)**			**SW846 8260A**
	101	**(10 - 173)**	**2.1**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**110**	**(58 - 118)**			**SW846 8260A**
	110	**(58 - 118)**	**0.25**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMND1AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-003 MGMND1AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro-1,2,2-trifluoroethane	138	(23 - 168)			SW846 8260A
	140	(23 - 168)	1.6	(0-30)	SW846 8260A
cis-1,3-Dichloropropene	**114**	**(19 - 121)**			**SW846 8260A**
	116	**(19 - 121)**	**1.8**	**(0-30)**	**SW846 8260A**
trans-1,3-Dichloropropene	**118**	**(10 - 136)**			**SW846 8260A**
	118	**(10 - 136)**	**0.21**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**105**	**(27 - 143)**			**SW846 8260A**
	104	**(27 - 143)**	**0.84**	**(0-30)**	**SW846 8260A**
n-Hexane	119	(18 - 148)			SW846 8260A
	123	(18 - 148)	3.2	(0-30)	SW846 8260A
2-Hexanone	**98**	**(21 - 141)**			**SW846 8260A**
	97	**(21 - 141)**	**0.10**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**104**	**(39 - 126)**			**SW846 8260A**
	102	**(39 - 126)**	**1.6**	**(0-30)**	**SW846 8260A**
Methylene chloride	**90**	**(10 - 148)**			**SW846 8260A**
	92	**(10 - 148)**	**2.2**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**102**	**(19 - 151)**			**SW846 8260A**
	104	**(19 - 151)**	**1.5**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**123**	**(26 - 159)**			**SW846 8260A**
	125	**(26 - 159)**	**1.7**	**(0-30)**	**SW846 8260A**
Styrene	**106**	**(31 - 137)**			**SW846 8260A**
	103	**(31 - 137)**	**2.7**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**94**	**(16 - 158)**			**SW846 8260A**
	97	**(16 - 158)**	**2.8**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**109**	**(19 - 153)**			**SW846 8260A**
	106	**(19 - 153)**	**1.9**	**(0-30)**	**SW846 8260A**
Toluene	**100**	**(10 - 168)**			**SW846 8260A**
	97	**(10 - 168)**	**3.4**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	81	(10 - 136)			SW846 8260A
	81	(10 - 136)	0.12	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**117**	**(10 - 159)**			**SW846 8260A**
	119	**(10 - 159)**	**2.0**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**105**	**(34 - 152)**			**SW846 8260A**
	105	**(34 - 152)**	**0.44**	**(0-30)**	**SW846 8260A**
Trichloroethene	**111**	**(10 - 193)**			**SW846 8260A**
	111	**(10 - 193)**	**0.20**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	130	(10 - 157)			SW846 8260A
	129	(10 - 157)	0.83	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMND1AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-003 MGMND1AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**96**	**(15 - 123)**			**SW846 8260A**
	98	**(15 - 123)**	**1.6**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**111**	**(16 - 150)**			**SW846 8260A**
	109	**(16 - 150)**	**1.8**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(30 - 122)
	99	(30 - 122)
1,2-Dichloroethane-d4	97	(39 - 128)
	99	(39 - 128)
Toluene-d8	96	(33 - 134)
	94	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)
	108	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGRM51C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080597-001 MGRM51DA-MSD
Date Sampled...: 04/07/11 08:50 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104183
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**89**	**(10 - 179)**			**SW846 8260A**
	90	**(10 - 179)**	**1.5**	**(0-30)**	**SW846 8260A**
Chloromethane	79	(16 - 115)			SW846 8260A
	78	(16 - 115)	1.4	(0-30)	SW846 8260A
Bromomethane	54	(10 - 151)			SW846 8260A
	52	(10 - 151)	3.2	(0-30)	SW846 8260A
Vinyl chloride	**82**	**(15 - 123)**			**SW846 8260A**
	80	**(15 - 123)**	**2.8**	**(0-30)**	**SW846 8260A**
Chloroethane	105	(10 - 168)			SW846 8260A
	108	(10 - 168)	2.8	(0-30)	SW846 8260A
Methylene chloride	**75**	**(10 - 148)**			**SW846 8260A**
	77	**(10 - 148)**	**1.7**	**(0-30)**	**SW846 8260A**
Acetone	79	(10 - 142)			SW846 8260A
	76	(10 - 142)	3.9	(0-30)	SW846 8260A
Carbon disulfide	**91**	**(10 - 155)**			**SW846 8260A**
	90	**(10 - 155)**	**0.47**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**92**	**(18 - 160)**			**SW846 8260A**
	91	**(18 - 160)**	**0.31**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	89	(29 - 139)			SW846 8260A
	89	(29 - 139)	0.40	(0-30)	SW846 8260A
Chloroform	**95**	**(51 - 120)**			**SW846 8260A**
	93	**(51 - 120)**	**1.4**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**99**	**(25 - 150)**			**SW846 8260A**
	98	**(25 - 150)**	**1.4**	**(0-30)**	**SW846 8260A**
Bromoform	113	(10 - 147)			SW846 8260A
	105	(10 - 147)	7.8	(0-30)	SW846 8260A
2-Butanone	**92**	**(10 - 172)**			**SW846 8260A**
	84	**(10 - 172)**	**10**	**(0-30)**	**SW846 8260A**
1,1,1-Trichloroethane	**102**	**(10 - 159)**			**SW846 8260A**
	99	**(10 - 159)**	**3.0**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**105**	**(12 - 135)**			**SW846 8260A**
	104	**(12 - 135)**	**0.92**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**99**	**(18 - 133)**			**SW846 8260A**
	97	**(18 - 133)**	**2.3**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**93**	**(58 - 118)**			**SW846 8260A**
	91	**(58 - 118)**	**1.4**	**(0-30)**	**SW846 8260A**
cis-1,3-Dichloropropene	**99**	**(19 - 121)**			**SW846 8260A**
	94	**(19 - 121)**	**4.8**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGRM51C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080597-001 MGRM51DA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	**93**	**(10 - 193)**			**SW846 8260A**
	92	**(10 - 193)**	**1.1**	**(0-30)**	**SW846 8260A**
Benzene	**84**	**(10 - 199)**			**SW846 8260A**
	83	**(10 - 199)**	**1.2**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**94**	**(47 - 118)**			**SW846 8260A**
	92	**(47 - 118)**	**2.1**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**110**	**(10 - 128)**			**SW846 8260A**
	107	**(10 - 128)**	**2.7**	**(0-30)**	**SW846 8260A**
cis-1,2-Dichloroethene	**91**	**(34 - 137)**			**SW846 8260A**
	90	**(34 - 137)**	**0.54**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**87**	**(40 - 126)**			**SW846 8260A**
	87	**(40 - 126)**	**0.26**	**(0-30)**	**SW846 8260A**
n-Hexane	89	(18 - 148)			SW846 8260A
	89	(18 - 148)	0.96	(0-30)	SW846 8260A
Methyl tert-butyl ether	**111**	**(26 - 159)**			**SW846 8260A**
	109	**(26 - 159)**	**2.0**	**(0-30)**	**SW846 8260A**
Cyclohexane	98	(10 - 154)			SW846 8260A
	97	(10 - 154)	1.7	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**115**	**(10 - 137)**			**SW846 8260A**
	104	**(10 - 137)**	**9.9**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	65	(10 - 113)			SW846 8260A
	66	(10 - 113)	0.68	(0-30)	SW846 8260A
1,2-Dibromoethane	**109**	**(32 - 127)**			**SW846 8260A**
	103	**(32 - 127)**	**5.1**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	107	(10 - 157)			SW846 8260A
	108	(10 - 157)	0.49	(0-30)	SW846 8260A
Trichlorotrifluoroethane	118	(23 - 168)			SW846 8260A
	114	(23 - 168)	3.0	(0-30)	SW846 8260A
Methyl acetate	126	(10 - 175)			SW846 8260A
	112	(10 - 175)	12	(0-30)	SW846 8260A
Methylcyclohexane	80	(11 - 156)			SW846 8260A
	80	(11 - 156)	0.08	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**104**	**(27 - 126)**			**SW846 8260A**
	96	**(27 - 126)**	**7.9**	**(0-30)**	**SW846 8260A**
o-Xylene	**110**	**(18 - 151)**			**SW846 8260A**
	109	**(18 - 151)**	**1.7**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**104**	**(14 - 151)**			**SW846 8260A**
	103	**(14 - 151)**	**1.6**	**(0-30)**	**SW846 8260A**
Acetonitrile	83	(10 - 173)			SW846 8260A
	78	(10 - 173)	6.5	(0-30)	SW846 8260A

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGRM51C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080597-001 MGRM51DA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	**107**	**(29 - 124)**			**SW846 8260A**
	101	**(29 - 124)**	**6.0**	**(0-30)**	**SW846 8260A**
Acrolein	24	(10 - 145)			SW846 8260A
	13 p	(10 - 145)	57	(0-30)	SW846 8260A
Acrylonitrile	89	(28 - 126)			SW846 8260A
	82	(28 - 126)	8.1	(0-30)	SW846 8260A
Cyclohexanone	142	(10 - 199)			SW846 8260A
	130	(10 - 199)	8.4	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**100**	**(30 - 123)**			**SW846 8260A**
	92	**(30 - 123)**	**8.4**	**(0-30)**	**SW846 8260A**
Bromobenzene	**124 a**	**(49 - 119)**			**SW846 8260A**
	120 a	**(49 - 119)**	**3.9**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**97**	**(42 - 123)**			**SW846 8260A**
	98	**(42 - 123)**	**1.8**	**(0-30)**	**SW846 8260A**
n-Butylbenzene	**100**	**(13 - 154)**			**SW846 8260A**
	96	**(13 - 154)**	**3.6**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**113**	**(41 - 133)**			**SW846 8260A**
	113	**(41 - 133)**	**0.09**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**127**	**(45 - 132)**			**SW846 8260A**
	126	**(45 - 132)**	**0.77**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**131 a**	**(51 - 118)**			**SW846 8260A**
	126 a	**(51 - 118)**	**4.1**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**123 a**	**(43 - 120)**			**SW846 8260A**
	119	**(43 - 120)**	**3.2**	**(0-30)**	**SW846 8260A**
Dibromomethane	**97**	**(45 - 121)**			**SW846 8260A**
	94	**(45 - 121)**	**3.8**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	103	(26 - 127)			SW846 8260A
	101	(26 - 127)	2.2	(0-30)	SW846 8260A
1,1-Dichloropropene	**93**	**(42 - 126)**			**SW846 8260A**
	92	**(42 - 126)**	**0.82**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	74	(10 - 134)			SW846 8260A
	74	(10 - 134)	0.30	(0-30)	SW846 8260A
Iodomethane	124	(27 - 140)			SW846 8260A
	121	(27 - 140)	2.5	(0-30)	SW846 8260A
Isopropyl ether	92	(63 - 111)			SW846 8260A
	90	(63 - 111)	1.3	(0-30)	SW846 8260A
p-Isopropyltoluene	**120**	**(33 - 139)**			**SW846 8260A**
	118	**(33 - 139)**	**1.8**	**(0-30)**	**SW846 8260A**
Naphthalene	63	(10 - 199)			SW846 8260A
	50	(10 - 199)	22	(0-30)	SW846 8260A
n-Propylbenzene	**128**	**(41 - 135)**			**SW846 8260A**
	124	**(41 - 135)**	**2.6**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGRM51C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080597-001 MGRM51DA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,1,2-Tetrachloroethane	**115**	**(19 - 124)**			**SW846 8260A**
	110	**(19 - 124)**	**3.7**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	64	(10 - 123)			SW846 8260A
	54	(10 - 123)	17	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**136**	**(54 - 142)**			**SW846 8260A**
	133	**(54 - 142)**	**2.2**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**124**	**(10 - 199)**			**SW846 8260A**
	119	**(10 - 199)**	**4.2**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**126**	**(10 - 173)**			**SW846 8260A**
	122	**(10 - 173)**	**3.2**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	118	(23 - 168)			SW846 8260A
	114	(23 - 168)	3.0	(0-30)	SW846 8260A
2-Chloroethyl vinyl ether	92	(10 - 137)			SW846 8260A
	84	(10 - 137)	8.7	(0-30)	SW846 8260A
1,3-Dichloropropane	**105**	**(58 - 117)**			**SW846 8260A**
	101	**(58 - 117)**	**4.4**	**(0-30)**	**SW846 8260A**
trans-1,3-Dichloropropene	**119**	**(10 - 136)**			**SW846 8260A**
	114	**(10 - 136)**	**4.3**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**100**	**(27 - 143)**			**SW846 8260A**
	99	**(27 - 143)**	**1.8**	**(0-30)**	**SW846 8260A**
2-Hexanone	**101**	**(21 - 141)**			**SW846 8260A**
	90	**(21 - 141)**	**12**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**101**	**(39 - 126)**			**SW846 8260A**
	97	**(39 - 126)**	**4.2**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**112**	**(19 - 151)**			**SW846 8260A**
	103	**(19 - 151)**	**9.1**	**(0-30)**	**SW846 8260A**
Styrene	**103**	**(31 - 137)**			**SW846 8260A**
	96	**(31 - 137)**	**6.2**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**120**	**(16 - 158)**			**SW846 8260A**
	112	**(16 - 158)**	**6.2**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**103**	**(19 - 153)**			**SW846 8260A**
	103	**(19 - 153)**	**0.17**	**(0-30)**	**SW846 8260A**
Toluene	**96**	**(10 - 168)**			**SW846 8260A**
	99	**(10 - 168)**	**3.1**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	72	(10 - 136)			SW846 8260A
	61	(10 - 136)	17	(0-30)	SW846 8260A
1,1,2-Trichloroethane	**104**	**(34 - 152)**			**SW846 8260A**
	103	**(34 - 152)**	**1.8**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D060589 **Work Order #...:** MGRM51C9-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080597-001 MGRM51DA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**106**	**(16 - 150)**			**SW846 8260A**
	105	**(16 - 150)**	**1.6**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
	94	(30 - 122)
1,2-Dichloroethane-d4	98	(39 - 128)
	97	(39 - 128)
Toluene-d8	102	(33 - 134)
	103	(33 - 134)
4-Bromofluorobenzene	122	(26 - 141)
	121	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CG-MSD
Date Sampled...: 04/04/11 17:15 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1097072
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**60**	**(10 - 200)**			**SW846 8270C**
	60	**(10 - 200)**	**0.39**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**60**	**(33 - 110)**			**SW846 8270C**
	59	**(33 - 110)**	**2.0**	**(0-30)**	**SW846 8270C**
Acenaphthylene	62	(10 - 200)			SW846 8270C
	62	(10 - 200)	0.45	(0-30)	SW846 8270C
Anthracene	67	(10 - 200)			SW846 8270C
	71	(10 - 200)	5.2	(0-30)	SW846 8270C
Benzo(a)anthracene	67	(10 - 200)			SW846 8270C
	70	(10 - 200)	4.7	(0-30)	SW846 8270C
2,4-Dinitrotoluene	**53**	**(42 - 118)**			**SW846 8270C**
	64	**(42 - 118)**	**19**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	66	(10 - 200)			SW846 8270C
	67	(10 - 200)	1.7	(0-30)	SW846 8270C
Benzo(b)fluoranthene	63	(10 - 200)			SW846 8270C
	75	(10 - 200)	15	(0-30)	SW846 8270C
Benzo(ghi)perylene	65	(10 - 200)			SW846 8270C
	67	(10 - 200)	3.1	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl-amine	**58**	**(30 - 121)**			**SW846 8270C**
	54	**(30 - 121)**	**5.7**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	88	(10 - 200)			SW846 8270C
	83	(10 - 200)	5.4	(0-30)	SW846 8270C
Chrysene	72	(10 - 200)			SW846 8270C
	70	(10 - 200)	1.2	(0-30)	SW846 8270C
1,4-Dichlorobenzene	**59**	**(26 - 110)**			**SW846 8270C**
	58	**(26 - 110)**	**2.8**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	67	(10 - 200)			SW846 8270C
	70	(10 - 200)	4.1	(0-30)	SW846 8270C
Pentachlorophenol	**0.0 a**	**(10 - 182)**			**SW846 8270C**
	25 p	**(10 - 182)**	**200**	**(0-30)**	**SW846 8270C**
Fluoranthene	73	(10 - 200)			SW846 8270C
	72	(10 - 200)	0.95	(0-30)	SW846 8270C
Fluorene	65	(10 - 187)			SW846 8270C
	65	(10 - 187)	0.50	(0-30)	SW846 8270C
Phenol	**67**	**(10 - 144)**			**SW846 8270C**
	64	**(10 - 144)**	**3.8**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	66	(10 - 200)			SW846 8270C
	68	(10 - 200)	4.0	(0-30)	SW846 8270C
2-Chlorophenol	**61**	**(32 - 110)**			**SW846 8270C**
	60	**(32 - 110)**	**0.97**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	63	(10 - 130)			SW846 8270C
	65	(10 - 130)	3.5	(0-30)	SW846 8270C
2-Methylnaphthalene	74	(10 - 200)			SW846 8270C
	74	(10 - 200)	0.84	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**72**	**(32 - 117)**			**SW846 8270C**
	74	**(32 - 117)**	**3.6**	**(0-30)**	**SW846 8270C**
Naphthalene	59	(10 - 200)			SW846 8270C
	59	(10 - 200)	0.25	(0-30)	SW846 8270C
4-Nitrophenol	**55**	**(10 - 125)**			**SW846 8270C**
	58	**(10 - 125)**	**6.6**	**(0-30)**	**SW846 8270C**
Phenanthrene	69	(10 - 200)			SW846 8270C
	72	(10 - 200)	4.7	(0-30)	SW846 8270C
Pyrene	**79**	**(10 - 200)**			**SW846 8270C**
	79	**(10 - 200)**	**0.30**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	58	(36 - 110)			SW846 8270C
	57	(36 - 110)	0.09	(0-30)	SW846 8270C
bis(2-Chloroethyl)-ether	80	(32 - 118)			SW846 8270C
	78	(32 - 118)	1.4	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	57	(25 - 124)			SW846 8270C
	55	(25 - 124)	3.5	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	83	(10 - 200)			SW846 8270C
	79	(10 - 200)	4.0	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	67	(44 - 120)			SW846 8270C
	70	(44 - 120)	4.6	(0-30)	SW846 8270C
Butyl benzyl phthalate	72	(43 - 138)			SW846 8270C
	76	(43 - 138)	6.3	(0-30)	SW846 8270C
Carbazole	64	(10 - 162)			SW846 8270C
	68	(10 - 162)	7.0	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	51	(11 - 110)			SW846 8270C
	55	(11 - 110)	7.9	(0-30)	SW846 8270C
2-Chloronaphthalene	59	(40 - 110)			SW846 8270C
	59	(40 - 110)	0.85	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	33 a	(47 - 116)			SW846 8270C
	33 a	(47 - 116)	0.53	(0-30)	SW846 8270C
Dibenzofuran	63	(10 - 200)			SW846 8270C
	63	(10 - 200)	0.07	(0-30)	SW846 8270C
Di-n-butyl phthalate	67	(31 - 145)			SW846 8270C
	70	(31 - 145)	4.3	(0-30)	SW846 8270C
1,2-Dichlorobenzene	60	(29 - 110)			SW846 8270C
	59	(29 - 110)	1.6	(0-30)	SW846 8270C
1,3-Dichlorobenzene	55	(29 - 110)			SW846 8270C
	53	(29 - 110)	2.1	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	51	(10 - 110)			SW846 8270C
	54	(10 - 110)	4.6	(0-30)	SW846 8270C
2,4-Dichlorophenol	64	(33 - 110)			SW846 8270C
	65	(33 - 110)	2.4	(0-30)	SW846 8270C
Diethyl phthalate	68	(48 - 118)			SW846 8270C
	68	(48 - 118)	0.98	(0-30)	SW846 8270C
2,4-Dimethylphenol	60	(19 - 114)			SW846 8270C
	59	(19 - 114)	0.24	(0-30)	SW846 8270C
Dimethyl phthalate	65	(47 - 116)			SW846 8270C
	66	(47 - 116)	1.6	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dinitrophenol	14	(10 - 110)			SW846 8270C
	0.0 a,p	(10 - 110)	200	(0-30)	SW846 8270C
2,6-Dinitrotoluene	64	(28 - 137)			SW846 8270C
	66	(28 - 137)	3.6	(0-30)	SW846 8270C
Di-n-octyl phthalate	84	(10 - 182)			SW846 8270C
	87	(10 - 182)	4.1	(0-30)	SW846 8270C
Hexachlorobenzene	68	(37 - 122)			SW846 8270C
	71	(37 - 122)	4.4	(0-30)	SW846 8270C
Hexachlorobutadiene	57	(30 - 110)			SW846 8270C
	56	(30 - 110)	0.56	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	33	(13 - 110)			SW846 8270C
	33	(13 - 110)	0.14	(0-30)	SW846 8270C
Isophorone	47	(32 - 129)			SW846 8270C
	45	(32 - 129)	3.2	(0-30)	SW846 8270C
2-Methylphenol	68	(19 - 124)			SW846 8270C
	62	(19 - 124)	9.2	(0-30)	SW846 8270C
4-Methylphenol	56	(27 - 116)			SW846 8270C
	60	(27 - 116)	7.7	(0-30)	SW846 8270C
2-Nitroaniline	69	(31 - 141)			SW846 8270C
	69	(31 - 141)	1.1	(0-30)	SW846 8270C
3-Nitroaniline	68	(24 - 110)			SW846 8270C
	71	(24 - 110)	4.7	(0-30)	SW846 8270C
4-Nitroaniline	72	(23 - 124)			SW846 8270C
	72	(23 - 124)	0.44	(0-30)	SW846 8270C
Nitrobenzene	52	(33 - 111)			SW846 8270C
	51	(33 - 111)	2.3	(0-30)	SW846 8270C
2-Nitrophenol	47	(17 - 110)			SW846 8270C
	51	(17 - 110)	8.9	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	65	(10 - 169)			SW846 8270C
	70	(10 - 169)	6.8	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	57	(32 - 112)			SW846 8270C
	59	(32 - 112)	2.9	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	42	(22 - 110)			SW846 8270C
	42	(22 - 110)	1.0	(0-30)	SW846 8270C
Benzoic acid	0.0 a	(10 - 200)			SW846 8270C
	0.0 a	(10 - 200)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	18	(10 - 110)			SW846 8270C
	20	(10 - 110)	12	(0-30)	SW846 8270C
Pyridine	31	(10 - 110)			SW846 8270C
	31	(10 - 110)	0.56	(0-30)	SW846 8270C
Atrazine	93	(50 - 130)			SW846 8270C
	95	(50 - 130)	3.1	(0-30)	SW846 8270C
Acetophenone	61	(50 - 130)			SW846 8270C
	60	(50 - 130)	1.2	(0-30)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	59	(50 - 130)			SW846 8270C
	58	(50 - 130)	1.5	(0-30)	SW846 8270C
Caprolactam	63	(50 - 130)			SW846 8270C
	70	(50 - 130)	11	(0-30)	SW846 8270C
Aniline	28	(10 - 130)			SW846 8270C
	30	(10 - 130)	7.9	(0-30)	SW846 8270C
Benzyl alcohol	36	(10 - 130)			SW846 8270C
	33	(10 - 130)	8.6	(0-30)	SW846 8270C
N-Nitrosodimethylamine	46	(10 - 130)			SW846 8270C
	45	(10 - 130)	2.0	(0-30)	SW846 8270C
1,2-Dinitrobenzene	65	(10 - 130)			SW846 8270C
	65	(10 - 130)	0.07	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	23	(10 - 130)			SW846 8270C
	37 p	(10 - 130)	47	(0-30)	SW846 8270C
Benzaldehyde	68	(10 - 130)			SW846 8270C
	70	(10 - 130)	2.1	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	48	(24 - 112)
	48	(24 - 112)
2-Fluorobiphenyl	57	(34 - 110)
	55	(34 - 110)
Terphenyl-d14	75	(41 - 119)
	80	(41 - 119)
Phenol-d5	61	(28 - 110)
	59	(28 - 110)
2-Fluorophenol	63	(26 - 110)
	61	(26 - 110)
2,4,6-Tribromophenol	47	(10 - 118)
	48	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMKQ1AT-MS **Matrix.....:** SO
MS Lot-Sample #: A1D060589-002 MGMKQ1AU-MSD
Date Sampled...: 04/05/11 09:00 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/12/11
Prep Batch #...: 1097060
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**459 a**	**(70 - 130)**			**SW846 8015B**
	400 a	**(70 - 130)**	**14**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)
	48	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D060589 **Work Order #...:** MGMEQ1CD-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060548-002 MGMEQ1CE-MSD
Date Sampled...: 04/04/11 17:15 **Date Received..:** 04/06/11
Prep Date.....: 04/07/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1097055
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**93**	**(10 - 199)**			**SW846 8082**
	91	**(10 - 199)**	**2.2**	**(0-30)**	**SW846 8082**
Aroclor 1260	**87**	**(10 - 199)**			**SW846 8082**
	84	**(10 - 199)**	**3.4**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(10 - 196)
	97	(10 - 196)
Decachlorobiphenyl	88	(10 - 199)
	86	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D060589 **Matrix.....:** SOLID
Date Sampled...: 04/05/11 11:30 **Date Received..:** 04/06/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D060563-001 **Prep Batch #...:** 1097034							
						% Moisture.....: 0.85	
Arsenic	88	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1CE
	88	(75 - 125)	0.55	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1CF
		Dilution Factor: 1					
Lead	87	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1CG
	85	(75 - 125)	2.2	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1CH
		Dilution Factor: 1					
Barium	91	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1CT
	91	(75 - 125)	0.29	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1CU
		Dilution Factor: 1					
Selenium	89	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1CJ
	89	(75 - 125)	0.34	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1CK
		Dilution Factor: 1					
Cadmium	82	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1CX
	83	(75 - 125)	0.90	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1C0
		Dilution Factor: 1					
Chromium	77	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1C3
	77	(75 - 125)	0.02	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1C4
		Dilution Factor: 1					
Silver	93	(75 - 125)			SW846 6010B	04/07-04/14/11	MGMGG1DL
	91	(75 - 125)	2.7	(0-20)	SW846 6010B	04/07-04/14/11	MGMGG1DM
		Dilution Factor: 1					
Mercury	94	(11 - 192)			SW846 7471A	04/07-04/13/11	MGMGG1CC
	92	(11 - 192)	2.3	(0-20)	SW846 7471A	04/07-04/13/11	MGMGG1CD
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060589 **Work Order #...:** MGMHJ-SMP **Matrix.....:** SOLID
MGMHJ-DUP
Date Sampled...: 04/05/11 12:10 **Date Received..:** 04/06/11
% Moisture.....: 7.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D060575-001		
	92.4	93.2	%	0.94	(0-20)	MCAWW 160.3 MOD	04/07-04/08/11	1097264

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D060589 **Work Order #...:** MGMH0-SMP **Matrix.....:** SOLID
MGMH0-DUP
Date Sampled...: 04/05/11 12:30 **Date Received..:** 04/06/11
% Moisture.....: 5.8

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D060575-002		
	94.2	93.8	%	0.41	(0-20)	MCAWW 160.3 MOD	04/07-04/08/11	1097264

Dilution Factor: 1

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: Tetra Tech	Vicky Farmer →		Denise Pohl	017491
Address: 250 W Court Suite 200W	Telephone: 513 333 3666 →	Telephone:	Telephone:	1 of 2 COCs
City/State/Zip: Cincinnati OH 45202	Email: Vicky.Farmer@tetratech.com	Analysis Turnaround Time (in BDB days)		
Phone: 513 333 3666	Method of Shipment/Carrier: Fedex	TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: Mansfield Stamping Pit	Shipping/Tracking No:			
Project Number:				
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Analysis Req'd (Y/N)	Analyses: PAH, Metals, PCB	VOC	Ethylene Glycol	TPH DRO+GRO							Sample Specific Notes / Special Instructions:
SB101-HAZ-20-0411	4-5-11	1355				X							X		N	G	X	X									
SB16-SSA-15-0411		0900				X							X		N	G	X	X	X	X							
SB11-SSA-4-0411		1015				X							X						X								
SB11-SSA-2-0411		1015				X							X						X								
SB12-SSA-4-0411		1040				X							X						X								
SB12-SSA-2-0411		1040				X							X						X								
SB13-SSA-4-0411		1140				X							X						X								
SB13-SSA-2-0411		1140				X							X						X								
SB14-SSA-4-0411		1105				X							X						X								
SB14-SSA-2-0411		1105				X							X						X								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

	Company:	Date/Time:			
Relinquished by: V Farmer	TT	4-5-11 1754	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 4-6-11 9:15

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Tetra Tech	Client Project Manager:	Site Contact: Vicky Farmer	Lab Contact:
Address:	Telephone:	Telephone: 5133333666	Telephone:
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	COC No: 017492
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	2 of 2 COCs
Project Name: Mansfield Stamping	Method of Shipment/Carrier:		
Project Number:	Shipping/Tracking No:		
PO#			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (Y/N)	Analyses: Ethylene Glycol	VOC	PAH, Met, PCB	Sample Specific Notes / Special Instructions:
SB15-SSA-4-0411	4-5-11	1127				X							X		N	G	X			
SB15-SSA-2-0411	↓	1127				X							X		↓	↓	X			
DUPLICATE 1		—				X							X				X			
SB102-HA2-30-0411	↓	1612				X							X				X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: Farmer	Company: TT	Date/Time: 4-5-11 1756	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 4/6/11 915

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A1D060589
North Canton Facility

Client Tetra Tech Project Mansfield Stamping By: (Signature)
Cooler Received on 4-6-11 Opened on 4-6-11
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # A577 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt 2.8 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☑
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☑ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Client did not line down 4-5-11 on COC# 17491 for the collection dates. Will log sample dates as 4/5/11 per dates on jar labels.

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

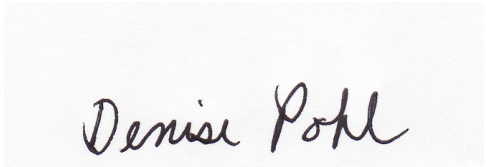
MANSFIELD STAMPING PLANT

Lot #: A1D060604

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
4/29/2011 1:58 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

April 29, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D060604

The following report contains the analytical results for one solid sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site. The sample was received April 06, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

The 8015 Ethylene Glycol and 160.3 Total Solids analyses were performed at the TestAmerica Dayton Laboratory. A copy of their report has been included.

TestAmerica utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 14, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.8°C.

See TestAmerica's Cooler Receipt Form for additional information.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: North Canton
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: Tetra Tech	Vicky Farmer →		Denise Rohl	017491
Address: 250 W Court Suite 200W	Telephone: 513 333 3666 →	Telephone:	Telephone:	1 of 2 COCs
City/State/Zip: Cincinnati OH 45202	Email: Vicky.Farmer@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only:
Phone: 513 333 3666		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No:
Project Name: Mansfield Stamping Plt	Method of Shipment/Carrier: Fedex			
Project Number:	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	PAH, Metals, RCRA	VOC	Ethylene Glycol	TPH GRO+DRO	Sample Specific Notes / Special Instructions:
SB101-HAZ-20-0411	4-5-11	1355				X							X		N	G	X	X			
SB116-SSA-15-0411		0900				X							X		N	G	X	X	X	X	
SB11-SSA-4-0411		1015				X							X						X		
SB11-SSA-2-0411		1015				X							X						X		
SB12-SSA-4-0411		1040				X							X						X		
SB12-SSA-2-0411		1040				X							X						X		
SB13-SSA-4-0411		1140				X							X						X		
SB13-SSA-2-0411		1140				X							X						X		
SB14-SSA-4-0411		1105				X							X						X		
SB14-SSA-2-0411		1105				X							X						X		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
V Farmer	TT	4-5-11 1756			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	4-6-11 9:15

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact: Vicky Farmer	Lab Contact:	COC No: 017492
Address:	Telephone:	Telephone: 5133333666	Telephone:	2 of 2 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: Mansfield Stamping	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			Job/SDG No:
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite=C / Grab=G	Ethylene Glycol	VOC	PAH, Wet, PCB	Sample Specific Notes / Special Instructions:
SB15-SSA-4-0411	4-5-11	1127				X							X		N	G	X			
SB15-SSA-2-0411	↓	1127				X							X		↓	↓	X			
DUPLICATE 1		—				X							X				X			
SB102-HA2-30-0411	↓	1612				X							X		↓	↓	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Farmer	TT	4-5-11 1756			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	4/6/11 915

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: ~~A1D0660589~~ A1D0691604

Client Tetra Tech Project Mansfield Stamping By: (Signature)
Cooler Received on 4-6-11 Opened on 4-6-11
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # 4577 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 1 Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt 2-8 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☑
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☑ Were VOAs on the COC? Yes ☐ No ☑

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Client did not line down 4-5-11 on COC# 17491 for the collection dates. Will log sample dates as 4/5/11 per dates on jar labels.

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

DAYTON DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

April 20, 2011

Client:

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720

Attn: Denise Pohl

Work Order: DUD0360
Project Name: Ohio EPA
Project Number: [none]

Date Received: 04/07/11

Samples logged in at Dayton laboratory.

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SB16-SSA-15-0411	DUD0360-01	04/05/11 09:00
SB11-SSA-4-0411	DUD0360-02	04/05/11 10:15
SB11-SSA-2-0411	DUD0360-03	04/05/11 10:15
SB12-SSA-4-0411	DUD0360-04	04/05/11 10:40
SB12-SSA-2-0411	DUD0360-05	04/05/11 10:40
SB13-SSA-4-0411	DUD0360-06	04/05/11 11:40
SB13-SSA-2-0411	DUD0360-07	04/05/11 11:40
SB14-SSA-4-0411	DUD0360-08	04/05/11 11:05
SB14-SSA-2-0411	DUD0360-09	04/05/11 11:05
SB15-SSA-4-0411	DUD0360-10	04/05/11 11:27
SB15-SSA-2-0411	DUD0360-11	04/05/11 11:27
DUPLICATE 1	DUD0360-12	04/05/11

Ohio Certification Number: 4074, 857

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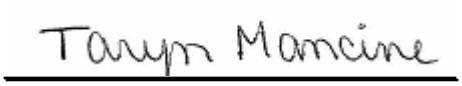
TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Report Approved By:



This report has been electronically signed.

TestAmerica Dayton
Taryn Mancine For Deborah Olszowka
Dayton Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-01 (SB16-SSA-15-0411 - Non-aqueous)					**Sampled: 04/05/11 09:00**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**89.5**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-01 (SB16-SSA-15-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 09:00**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters - cont.										
Ethylene glycol	<1.05		mg/kg dry	1.05	5.23	1	04/13/11 20:41	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*111 %*						04/13/11 20:41	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-02 (SB11-SSA-4-0411 - Non-aqueous)					**Sampled: 04/05/11 10:15**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**86.3**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-02 (SB11-SSA-4-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 10:15**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.14		mg/kg dry	1.14	5.68	1	04/13/11 21:05	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*106 %*						04/13/11 21:05	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-03 (SB11-SSA-2-0411 - Non-aqueous)					**Sampled: 04/05/11 10:15**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**86.1**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-03 (SB11-SSA-2-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 10:15**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.15		mg/kg dry	1.15	5.76	1	04/13/11 21:29	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*104 %*						04/13/11 21:29	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-04 (SB12-SSA-4-0411 - Non-aqueous)						**Sampled: 04/05/11 10:40**		**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**84.9**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-04 (SB12-SSA-4-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 10:40**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.17		mg/kg dry	1.17	5.83	1	04/13/11 21:53	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*110 %*						04/13/11 21:53	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-05 (SB12-SSA-2-0411 - Non-aqueous)					**Sampled: 04/05/11 10:40**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**83.7**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-05 (SB12-SSA-2-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 10:40**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.10		mg/kg dry	1.10	5.52	1	04/13/11 22:16	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*105 %*						04/13/11 22:16	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-06 (SB13-SSA-4-0411 - Non-aqueous)					**Sampled: 04/05/11 11:40**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**84.5**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-06 (SB13-SSA-4-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 11:40**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.18		mg/kg dry	1.18	5.92	1	04/14/11 10:23	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*107 %*						04/14/11 10:23	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-07 (SB13-SSA-2-0411 - Non-aqueous)					**Sampled: 04/05/11 11:40**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**86.3**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-07 (SB13-SSA-2-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 11:40**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.11		mg/kg dry	1.11	5.54	1	04/14/11 10:40	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*110 %*						04/14/11 10:40	cm	11D0570	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-08 (SB14-SSA-4-0411 - Non-aqueous)					**Sampled: 04/05/11 11:05**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**86.4**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
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North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-08 (SB14-SSA-4-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 11:05**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.14		mg/kg dry	1.14	5.72	1	04/14/11 10:57	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*107 %*						04/14/11 10:57	cm	11D0570	SW 8015m

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Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-09 (SB14-SSA-2-0411 - Non-aqueous)						**Sampled: 04/05/11 11:05**			**Recvd: 04/07/11 09:20**
General Chemistry Parameters									
Dry Weight	**85.0**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

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Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-09 (SB14-SSA-2-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 11:05**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.14		mg/kg dry	1.14	5.72	1	04/14/11 11:11	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*99 %*						04/14/11 11:11	cm	11D0570	SW 8015m

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Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-10 (SB15-SSA-4-0411 - Non-aqueous)					**Sampled: 04/05/11 11:27**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**89.1**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

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Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-10 (SB15-SSA-4-0411 - Non-aqueous) - cont.						**Sampled: 04/05/11 11:27**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.08		mg/kg dry	1.08	5.38	1	04/14/11 11:48	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*107 %*						04/14/11 11:48	cm	11D0570	SW 8015m

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Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-11 (SB15-SSA-2-0411 - Non-aqueous)					**Sampled: 04/05/11 11:27**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**85.3**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Sample ID: DUD0360-11 (SB15-SSA-2-0411 - Non-aqueous) - cont. **Sampled: 04/05/11 11:27** **Recvd: 04/07/11 09:20**

Alcohols/Glycols/VSO by GC

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Ethylene glycol	<1.16		mg/kg dry	1.16	5.78	1	04/14/11 12:08	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*101 %*						04/14/11 12:08	cm	11D0570	SW 8015m

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Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-12 (DUPLICATE 1 - Non-aqueous)					**Sampled: 04/05/11**			**Recvd: 04/07/11 09:20**	
General Chemistry Parameters									
Dry Weight	**86.0**		%	0.100	1	04/08/11 10:38	AKM	11D0293	SW 846

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Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0360-12 (DUPLICATE 1 - Non-aqueous) - cont.						**Sampled: 04/05/11**			**Recvd: 04/07/11 09:20**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.06		mg/kg dry	1.06	5.31	1	04/14/11 12:31	cm	11D0570	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*104 %*						04/14/11 12:31	cm	11D0570	SW 8015m

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Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0570			mg/kg wet	0.999	5.00	<0.999							
Surrogate: 1,4-Butanediol	*11D0570*			mg/kg wet					*116*		*70-130*			

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: DUD0360-01													
Dry Weight	11D0293	89.5		%	N/A	0.100	88.8				1	10	
QC Source Sample: DUD0360-12													
Dry Weight	11D0293	86.0		%	N/A	0.100	82.6				4	10	

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North Canton, OH 44720
Denise Pohl

Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0570		24.6	mg/kg wet	0.983	4.92	25.7		105		56-128			
Surrogate: 1,4-Butanediol	*11D0570*			mg/kg wet					*117*		*70-130*			

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Work Order: DUD0360
Project: Ohio EPA
Project Number: [none]

Received: 04/07/11
Reported: 04/20/11 14:30

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
QC Source Sample: DUD0360-01														
Ethylene glycol	11D0570	<1.046008	23.4	mg/kg dry	0.938	4.69	25.1	29.5	107	104	56-128	16	25	
Surrogate: 1,4-Butanediol	*11D0570*			mg/kg dry					*114*	*116*	*70-130*			

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order:	DUD0360	Received:	04/07/11
Project:	Ohio EPA	Reported:	04/20/11 14:30
Project Number:	[none]		

CERTIFICATION SUMMARY

Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

DATA QUALIFIERS AND DEFINITIONS

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

DUD0360

Laboratory TestAmerica Dayton
4738 Gateway Circle
DAYTON, OH 45440

TestAmerica Laboratories, Inc.
SAMPLE ANALYSIS REQUISITION

Lab Request SR126343

Report Package: Report

Need Analytical Report 2011-04-20

Client Code: 1431917

Project Manager: DENISE POHL

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A1D060604-1	MGMNM	SB16-SSA-15-0411	2011-04-05 9:00	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-2	MGMNX	SB11-SSA-4-0411	2011-04-05 10:15	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-2	MGMNX	SB11-SSA-4-0411	2011-04-05 10:15	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-3	MGMN0	SB11-SSA-2-0411	2011-04-05 10:15	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-3	MGMN0	SB11-SSA-2-0411	2011-04-05 10:15	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-4	MGMN1	SB12-SSA-4-0411	2011-04-05 10:40	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-4	MGMN1	SB12-SSA-4-0411	2011-04-05 10:40	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-5	MGMN2	SB12-SSA-2-0411	2011-04-05 10:40	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-5	MGMN2	SB12-SSA-2-0411	2011-04-05 10:40	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-6	MGMN4	SB13-SSA-4-0411	2011-04-05 11:40	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-6	MGMN4	SB13-SSA-4-0411	2011-04-05 11:40	SOLID, 160.3 mod, Total Solids DAYTON

Please use Client Sample ID for report
Call DENISE POHL with questions at 330-497-9396
at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 4/6/11 1710

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 4/7/11 09:20

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica Laboratories, Inc.

Laboratory TestAmerica Dayton
4738 Gateway Circle
DAYTON, OH 45440

SAMPLE ANALYSIS REQUISTION

Lab Request SR126343

Report Package: Report

Need Analytical Report 2011-04-20

Client Code: 1431917

Project Manager: DENISE POHL

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A1D060604-7	MGMN5	SB13-SSA-2-0411 [2]	2011-04-05 11:40	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-7	MGMN5	SB13-SSA-2-0411	2011-04-05 11:40	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-8	MGMN6	SB14-SSA-4-0411	2011-04-05 11:05	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-8	MGMN6	SB14-SSA-4-0411	2011-04-05 11:05	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-9	MGMN8	SB14-SSA-2-0411	2011-04-05 11:05	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-9	MGMN8	SB14-SSA-2-0411	2011-04-05 11:05	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-10	MGMN9	SB15-SSA-4-0411	2011-04-05 11:27	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-10	MGMN9	SB15-SSA-4-0411	2011-04-05 11:27	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-11	MGMPA	SB15-SSA-2-0411	2011-04-05 11:27	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D060604-11	MGMPA	SB15-SSA-2-0411	2011-04-05 11:27	SOLID, 160.3 mod, Total Solids DAYTON
A1D060604-12	MGMPC	DUPLICATE 1	2011-04-05	SOLID, 8015 mod, Ethylene Glycol- DAYTON

Please use Client Sample ID for report

Call DENISE POHL with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 4/6/11 1710

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 4/7/11 09:20

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory: TestAmerica Dayton
4738 Gateway Circle
DAYTON, OH 45440

Lab Request: SR126343

Report Package: Report
Need Analytical Report 2011-04-20

Client Code: 1431917

Project Manager: DENISE POHL

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A1D060604-12	MGMPC	DUPLICATE 1	2011-04-05	SOLID, 160.3 mod, Total Solids DAYTON

Please use Client Sample ID for report

Call DENISE POHL with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 4/6/11 1710

Relinquished by: _____ Date/Time: _____

Received for lab by: Jan Tutalo Date/Time: 4/7/11 09:20

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S
☑ Discrepancies
☐ Short Hold
☐ Rush ☐24hr ☐2day ☐3day ☐5day ☐other

Client ID TA - North Canton
Work Order # DUD0360
Receipt evaluation performed by - Initials: JMT Date: 4/7/11 Time: 0920

Method of Shipment:
☐ Walk-In Client ☐ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier
☑ Fed Ex Tracking # 9784 4675 8396
☐ UPS Tracking #
☐ Other

Shipping Container Type:
☐ Cooler ☑ Box
☐ None ☐ Other

Packing Materials:
☑ Plastic Bags ☐ Foam
☐ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other

Custody Seals Intact:
☑ Yes ☐ No
☐ N/A (not used or required)

Cooling Materials:
☑ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other

Are there any soil samples from areas requiring USDA quarantine? *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☑ **No** ☐ **Yes** (If Yes, *Project Manager must be notified).*

Receipt Temperatures ☐ **Check if Additional Sheets Required**

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Received on same day sampled?	Acceptable?*	Cooler ID	Note Affected Samples if temperature not acceptable
G	6.2	5.7	☐	☑	☐Yes ☑No	☑Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, **but not frozen**. For additional information, please refer to SOP DT-SCA-004 ***Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements.***

Receipt Questions**	Y	N	n/a	"No" answers require additional comment
COC present & TA receipt signature, date, & time properly documented?	✓			
Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)*	✓			
Appropriate containers used & adequate volume provided?	✓	JMT 4/7/11		
Number of sample containers match COC?	X	✓		Received 2 jars for A1D0606604-1 only one listed
Samples received within hold time?	✓			
Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace?			✓	OK dmo 4/8/11
Was a Trip Blank received with VOA samples?			✓	
Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.)	✓			
Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	✓			

** May not be applicable if samples are not for compliance testing

Client Contact Record
Contact via: ☐ Phone ☐ Email ☐ Other **Person Contacted:** **Date/Time:**
☐ Discrepancy allowance agreement is on record in the client project file.
Discussion/Resolution:

Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.

dmo 4/8/11
Reviewed by PM Signature Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

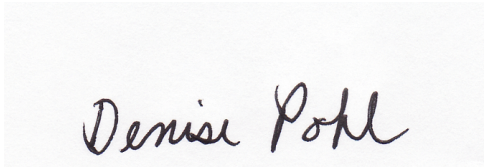
MANSFIELD STAMPING PLANT

Lot #: A1D070562

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/26/2011 2:20 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 24, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D070562

The following report contains the analytical results for six water samples, eleven wipe samples and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site. The samples were received April 07, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnaphthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 26, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

CASE NARRATIVE (continued)

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 0.2, 1.0, and 1.3°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 1108254 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

GC/MS SEMIVOLATILES

Surrogate recovery is out in sample(s) GW53-LAN-0411. Reextraction and/or reanalysis performed in accordance with exceeded criteria corrective action required by QAPjP. Reextraction and/or reanalysis resulted in all surrogate recoveries within QC limits, but the reextraction was performed outside of holding time. Both sets of data are reported.

Insufficient sample volume was provided to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch(es) 1101056.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch(es) 1109034.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082

The matrix spike/matrix spike duplicate(s) for SW01-SWH-0411 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch(es) 1098057.

On the original extraction of sample(s) SW01-SWH-0411, the client specific MS/MSD appeared not to be spiked. The sample was re-extracted out of the sample hold time; therefore, both sets of data is reported.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D070562

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW52-LAN-0411 04/06/11 14:07 016				
Fluoranthene	0.20	0.20	ug/L	SW846 8270C
TRIP BLANK 04/06/11 17:47 018				
Bromodichloromethane	3.1	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.63 J	1.0	ug/L	SW846 8260B
Chloroform	8.3	1.0	ug/L	SW846 8260B
Toluene	0.83 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D070562

PARAMETER	ANALYTICAL METHOD
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D070562

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MGN87	001	SW01-SWH-0411	04/06/11	09:33
MGN89	002	SWDUP1	04/06/11	09:33
MGN9A	003	GW54-LAN-0411	04/06/11	16:35
MGN9C	004	WP01-SWH-0411	04/06/11	09:48
MGN9M	005	WP02-SWH-0411	04/06/11	09:50
MGN9N	006	WP03-SWH-0411	04/06/11	09:52
MGN9P	007	WP04-SWH-0411	04/06/11	09:55
MGN9Q	008	WP05-SWH-0411	04/06/11	09:57
MGN9R	009	WP06-SWH-0411	04/06/11	09:59
MGN9T	010	WP07-SWH-0411	04/06/11	10:02
MGN9V	011	WP08-SWH-0411	04/06/11	10:05
MGN9X	012	WP09-SWH-0411	04/06/11	10:10
MGN91	013	WP10-SWH-0411	04/06/11	10:13
MGN92	014	BLANK	04/06/11	10:15
MGN93	015	GW53-LAN-0411	04/06/11	15:13
MGN96	016	GW52-LAN-0411	04/06/11	14:07
MGN99	017	GW51-LAN-0411	04/06/11	13:28
MGPAC	018	TRIP BLANK	04/06/11	17:47

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SW01-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-001 **Work Order #...:** MGN871AA **Matrix.....:** WG
Date Sampled...: 04/06/11 09:33 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	104	(27 - 130)
Decachlorobiphenyl	68	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: SW01-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-001 **Work Order #...:** MGN872AA **Matrix.....:** WG
Date Sampled...: 04/06/11 09:33 **Date Received..:** 04/07/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/17/11
Prep Batch #...: 1105119
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	103	(27 - 130)
Decachlorobiphenyl	47	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: SWDUP1

GC Semivolatiles

Lot-Sample #...: A1D070562-002 **Work Order #...:** MGN891AA **Matrix.....:** WG
Date Sampled...: 04/06/11 09:33 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	110	(27 - 130)
Decachlorobiphenyl	72	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: GW54-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-003 **Work Order #...:** MGN9A1AC **Matrix.....:** WG
Date Sampled...: 04/06/11 16:35 **Date Received..:** 04/07/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: GW54-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-003 **Work Order #...:** MGN9A1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	100	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	76	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: GW54-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D070562-003 **Work Order #...:** MGN9A1AE **Matrix.....:** WG
Date Sampled...: 04/06/11 16:35 **Date Received..:** 04/07/11
Prep Date.....: 04/11/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1101056
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(27 - 111)
2-Fluorobiphenyl	52	(28 - 110)
Terphenyl-d14	52	(37 - 119)
Phenol-d5	51	(10 - 110)
2-Fluorophenol	59	(10 - 110)
2,4,6-Tribromophenol	62	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW54-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-003 **Work Order #...:** MGN9A1AA **Matrix.....:** WG
Date Sampled...: 04/06/11 16:35 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(27 - 130)
Decachlorobiphenyl	27	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: WP01-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-004 **Work Order #...:** MGN9C1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:48 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	120	(10 - 196)
Decachlorobiphenyl	104	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP02-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-005 **Work Order #...:** MGN9M1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:50 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	117	(10 - 196)
Decachlorobiphenyl	90	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP03-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-006 **Work Order #...:** MGN9N1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:52 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	121	(10 - 196)
Decachlorobiphenyl	107	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP04-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-007 **Work Order #...:** MGN9P1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:55 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	118	(10 - 196)
Decachlorobiphenyl	106	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP05-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-008 **Work Order #...:** MGN9Q1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:57 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(10 - 196)
Decachlorobiphenyl	108	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP06-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-009 **Work Order #...:** MGN9R1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 09:59 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	117	(10 - 196)
Decachlorobiphenyl	102	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP07-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-010 **Work Order #...:** MGN9T1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 10:02 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	122	(10 - 196)
Decachlorobiphenyl	115	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP08-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-011 **Work Order #...:** MGN9V1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 10:05 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	127	(10 - 196)
Decachlorobiphenyl	129	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP09-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-012 **Work Order #...:** MGN9X1AA **Matrix.....:** SW
Date Sampled...: 04/06/11 10:10 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	128	(10 - 196)
Decachlorobiphenyl	117	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: WP10-SWH-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-013 **Work Order #...:** MGN911AA **Matrix.....:** SW
Date Sampled...: 04/06/11 10:13 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	121	(10 - 196)
Decachlorobiphenyl	118	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: BLANK

GC Semivolatiles

Lot-Sample #...: A1D070562-014 **Work Order #...:** MGN921AA **Matrix.....:** SW
Date Sampled...: 04/06/11 10:15 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	4.0	ug	4.0
Aroclor 1221	ND	4.0	ug	4.0
Aroclor 1232	ND	4.0	ug	4.0
Aroclor 1242	ND	4.0	ug	4.0
Aroclor 1248	ND	4.0	ug	4.0
Aroclor 1254	ND	4.0	ug	4.0
Aroclor 1260	ND	4.0	ug	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	115	(10 - 196)
Decachlorobiphenyl	104	(10 - 199)

Ohio Environmental Protection Agency

Client Sample ID: GW53-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-015 **Work Order #...:** MGN931AC **Matrix.....:** WG
Date Sampled...: 04/06/11 15:13 **Date Received..:** 04/07/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW53-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-015 **Work Order #...:** MGN931AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	71	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: GW53-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D070562-015 **Work Order #...:** MGN931AE **Matrix.....:** WG
Date Sampled...: 04/06/11 15:13 **Date Received..:** 04/07/11
Prep Date.....: 04/11/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1101056
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
Terphenyl-d14	34 *	(37 - 119)
Phenol-d5	69	(10 - 110)
2-Fluorophenol	64	(10 - 110)
2,4,6-Tribromophenol	61	(22 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Ohio Environmental Protection Agency

Client Sample ID: GW53-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D070562-015 **Work Order #...:** MGN932AE **Matrix.....:** WG
Date Sampled...: 04/06/11 15:13 **Date Received..:** 04/07/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109034
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	39	(27 - 111)
2-Fluorobiphenyl	43	(28 - 110)
Terphenyl-d14	48	(37 - 119)
Phenol-d5	44	(10 - 110)
2-Fluorophenol	43	(10 - 110)
2,4,6-Tribromophenol	52	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW53-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-015 **Work Order #...:** MGN931AA **Matrix.....:** WG
Date Sampled...: 04/06/11 15:13 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	45	(27 - 130)
Decachlorobiphenyl	16	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: GW52-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-016 **Work Order #...:** MGN961AC **Matrix.....:** WG
Date Sampled...: 04/06/11 14:07 **Date Received..:** 04/07/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW52-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-016 **Work Order #...:** MGN961AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(75 - 121)
1,2-Dichloroethane-d4	104	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	74	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: GW52-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D070562-016 **Work Order #...:** MGN961AE **Matrix.....:** WG
Date Sampled...: 04/06/11 14:07 **Date Received..:** 04/07/11
Prep Date.....: 04/11/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1101056
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	**0.20**	**0.20**	**ug/L**	**0.10**
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
Terphenyl-d14	37	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	59	(10 - 110)
2,4,6-Tribromophenol	72	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW52-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-016 **Work Order #...:** MGN961AA **Matrix.....:** WG
Date Sampled...: 04/06/11 14:07 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	87	(27 - 130)
Decachlorobiphenyl	31	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: GW51-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-017 **Work Order #...:** MGN991AC **Matrix.....:** WG
Date Sampled...: 04/06/11 13:28 **Date Received..:** 04/07/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW51-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D070562-017 **Work Order #...:** MGN991AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(75 - 121)
1,2-Dichloroethane-d4	107	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	76	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: GW51-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D070562-017 **Work Order #...:** MGN991AE **Matrix.....:** WG
Date Sampled...: 04/06/11 13:28 **Date Received..:** 04/07/11
Prep Date.....: 04/11/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1101056
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(27 - 111)
2-Fluorobiphenyl	67	(28 - 110)
Terphenyl-d14	55	(37 - 119)
Phenol-d5	64	(10 - 110)
2-Fluorophenol	62	(10 - 110)
2,4,6-Tribromophenol	70	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW51-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D070562-017 **Work Order #...:** MGN991AA **Matrix.....:** WG
Date Sampled...: 04/06/11 13:28 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(27 - 130)
Decachlorobiphenyl	27	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D070562-018 **Work Order #...:** MGPAC1AA **Matrix.....:** WQ
Date Sampled...: 04/06/11 17:47 **Date Received..:** 04/07/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**3.1**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	**0.63 J**	**1.0**	**ug/L**	**0.18**
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**8.3**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D070562-018 **Work Order #...:** MGPAC1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.83 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(75 - 121)
1,2-Dichloroethane-d4	104	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	76	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MG55K1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D180000-254
Prep Date.....: 04/14/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1108254
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**0.98 J**	**1.0**	**ug/L**	**SW846 8260B**
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MG55K1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(75 - 121)
1,2-Dichloroethane-d4	109	(63 - 129)
Toluene-d8	99	(74 - 115)
4-Bromofluorobenzene	82	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGTVV1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D110000-056

Prep Date.....: 04/11/11
Analysis Date..: 04/13/11 **Prep Batch #...:** 1101056
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(27 - 111)
2-Fluorobiphenyl	69	(28 - 110)
Terphenyl-d14	81	(37 - 119)
Phenol-d5	63	(10 - 110)
2-Fluorophenol	59	(10 - 110)
2,4,6-Tribromophenol	70	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG6N01AA **Matrix.....:** WATER
MB Lot-Sample #: A1D190000-034

Prep Date.....: 04/19/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1109034
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(27 - 111)
2-Fluorobiphenyl	58	(28 - 110)
Terphenyl-d14	75	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	59	(10 - 110)
2,4,6-Tribromophenol	66	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGP0K1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D080000-048
Prep Date.....: 04/08/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1098048
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.50	ug/L	SW846 8082
Aroclor 1221	ND	0.50	ug/L	SW846 8082
Aroclor 1232	ND	0.50	ug/L	SW846 8082
Aroclor 1242	ND	0.50	ug/L	SW846 8082
Aroclor 1248	ND	0.50	ug/L	SW846 8082
Aroclor 1254	ND	0.50	ug/L	SW846 8082
Aroclor 1260	ND	0.50	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	106	(27 - 130)
Decachlorobiphenyl	102	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGP061AA **Matrix.....:** WIPE
MB Lot-Sample #: A1D080000-057
Prep Date.....: 04/08/11
Analysis Date..: 04/11/11 **Prep Batch #...:** 1098057
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	4.0	ug	SW846 8082
Aroclor 1221	ND	4.0	ug	SW846 8082
Aroclor 1232	ND	4.0	ug	SW846 8082
Aroclor 1242	ND	4.0	ug	SW846 8082
Aroclor 1248	ND	4.0	ug	SW846 8082
Aroclor 1254	ND	4.0	ug	SW846 8082
Aroclor 1260	ND	4.0	ug	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	132	(10 - 196)
Decachlorobiphenyl	126	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG25V1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D150000-119

Prep Date.....: 04/15/11
Analysis Date..: 04/17/11 **Prep Batch #...:** 1105119
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.50	ug/L	SW846 8082
Aroclor 1221	ND	0.50	ug/L	SW846 8082
Aroclor 1232	ND	0.50	ug/L	SW846 8082
Aroclor 1242	ND	0.50	ug/L	SW846 8082
Aroclor 1248	ND	0.50	ug/L	SW846 8082
Aroclor 1254	ND	0.50	ug/L	SW846 8082
Aroclor 1260	ND	0.50	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	100	(27 - 130)
Decachlorobiphenyl	77	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MG55K1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-254
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	71	(43 - 136)	SW846 8260B
Benzene	**94**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	87	(82 - 114)	SW846 8260B
Bromodichloromethane	**96**	**(72 - 121)**	**SW846 8260B**
Bromoform	93	(40 - 131)	SW846 8260B
Bromomethane	36	(11 - 185)	SW846 8260B
2-Butanone	**84**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**97**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**97**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**99**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**97**	**(64 - 119)**	**SW846 8260B**
Chloroethane	38	(25 - 153)	SW846 8260B
Chloroform	**85**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	123	(74 - 151)	SW846 8260B
Methyl acetate	74	(58 - 131)	SW846 8260B
Chloromethane	65	(44 - 126)	SW846 8260B
Cyclohexane	105	(54 - 121)	SW846 8260B
Methylcyclohexane	118	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**75**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**96**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**91**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**91**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**95**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**103**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	98	(52 - 131)	SW846 8260B
Acetonitrile	69	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**93**	**(82 - 110)**	**SW846 8260B**
Acrolein	87	(51 - 170)	SW846 8260B
Vinyl acetate	57	(46 - 161)	SW846 8260B
Acrylonitrile	82	(66 - 132)	SW846 8260B
Bromobenzene	**104**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MG55K1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-254

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	58	(19 - 129)	SW846 8260B
Bromochloromethane	**90**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**81**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**84**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**82**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**84**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**97**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**104**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**89**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**101**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**100**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	67	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**101**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**86**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	79	(36 - 134)	SW846 8260B
Iodomethane	101	(72 - 141)	SW846 8260B
Isopropyl ether	79	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**87**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**86**	**(74 - 120)**	**SW846 8260B**
Naphthalene	56	(32 - 141)	SW846 8260B
n-Propylbenzene	**100**	**(74 - 121)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**83**	**(72 - 116)**	**SW846 8260B**
1,1-Dichloroethene	**92**	**(78 - 131)**	**SW846 8260B**
1,2,3-Trichlorobenzene	79	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**93**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**86**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**97**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**87**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**97**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**96**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**102**	**(83 - 112)**	**SW846 8260B**
n-Hexane	150 a	(66 - 137)	SW846 8260B
2-Hexanone	**99**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**81**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**88**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**96**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**66**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MG55K1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-254

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**95**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**89**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**108**	**(79 - 114)**	**SW846 8260B**
Toluene	**99**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	74	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**78**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**103**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**104**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	101	(49 - 157)	SW846 8260B
Vinyl chloride	**68**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**99**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
Toluene-d8	104	(74 - 115)
4-Bromofluorobenzene	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGTVV1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D110000-056
Prep Date.....: 04/11/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1101056
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**69**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**67**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**68**	**(43 - 110)**	**SW846 8270C**
Anthracene	**72**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**69**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**76**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**60**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**73**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**74**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**63**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**70**	**(43 - 124)**	**SW846 8270C**
Chrysene	**71**	**(55 - 115)**	**SW846 8270C**
1,4-Dichlorobenzene	**67**	**(19 - 110)**	**SW846 8270C**
Dibenz(a,h)anthracene	**74**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**74**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**72**	**(54 - 122)**	**SW846 8270C**
Fluorene	**68**	**(47 - 112)**	**SW846 8270C**
Phenol	**65**	**(14 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**73**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**69**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	69	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**72**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**81**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**66**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**75**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**68**	**(52 - 114)**	**SW846 8270C**
Pyrene	**67**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**66**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**65**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**70**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	69	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGTVV1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D110000-056

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**63**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**71**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**67**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**68**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**77**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**74**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**73**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**61**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	47	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**75**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**69**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**69**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**62**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**72**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	45	(19 - 110)	SW846 8270C
3-Nitroaniline	**61**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	71	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**74**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	53	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**74**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**75**	**(53 - 126)**	**SW846 8270C**
Carbazole	**69**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**70**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**73**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**72**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**72**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**72**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**65**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**63**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGTVV1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D110000-056

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**69**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**69**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**75**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	51	(10 - 110)	SW846 8270C
Benzoic acid	39	(10 - 129)	SW846 8270C
Atrazine	79	(50 - 130)	SW846 8270C
Acetophenone	71	(50 - 130)	SW846 8270C
1,1'-Biphenyl	70	(50 - 130)	SW846 8270C
Caprolactam	59	(50 - 130)	SW846 8270C
Aniline	37	(10 - 130)	SW846 8270C
Benzyl alcohol	68	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**53**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	76	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	75	(10 - 130)	SW846 8270C
Benzaldehyde	89	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	68	(25 - 128)	SW846 8270C
1,4-Dioxane	48	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(27 - 111)
2-Fluorobiphenyl	70	(28 - 110)
Terphenyl-d14	80	(37 - 119)
Phenol-d5	63	(10 - 110)
2-Fluorophenol	63	(10 - 110)
2,4,6-Tribromophenol	77	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG6N01AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D190000-034
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109034
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**66**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**62**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**65**	**(43 - 110)**	**SW846 8270C**
Anthracene	**66**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**61**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**70**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**52**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**57**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**65**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**60**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**72**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**68**	**(19 - 110)**	**SW846 8270C**
Chrysene	**68**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**64**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**62**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**68**	**(54 - 122)**	**SW846 8270C**
Phenol	**71**	**(14 - 112)**	**SW846 8270C**
Fluorene	**66**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**64**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**70**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	67	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**71**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**76**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**65**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**66**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**66**	**(52 - 114)**	**SW846 8270C**
Pyrene	**64**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**69**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**64**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**69**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	69	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG6N01AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D190000-034

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**61**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**67**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**68**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**64**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**81**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**69**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**71**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**57**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	42	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**70**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**67**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**68**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**60**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**71**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	35	(19 - 110)	SW846 8270C
3-Nitroaniline	**58**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	65	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**70**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	54	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**68**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**67**	**(53 - 126)**	**SW846 8270C**
Carbazole	**67**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**67**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**68**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**67**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**57**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**70**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**62**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**63**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG6N01AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D190000-034

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**64**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**67**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**57**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**69**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	30	(10 - 110)	SW846 8270C
Benzoic acid	38	(10 - 129)	SW846 8270C
Pyridine	11	(10 - 110)	SW846 8270C
Atrazine	70	(50 - 130)	SW846 8270C
Acetophenone	66	(50 - 130)	SW846 8270C
1,1'-Biphenyl	64	(50 - 130)	SW846 8270C
Caprolactam	57	(50 - 130)	SW846 8270C
Aniline	49	(10 - 130)	SW846 8270C
Benzyl alcohol	70	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**62**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	68	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	70	(10 - 130)	SW846 8270C
Benzaldehyde	127	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	64	(25 - 128)	SW846 8270C
1,4-Dioxane	56	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(27 - 111)
2-Fluorobiphenyl	64	(28 - 110)
Terphenyl-d14	73	(37 - 119)
Phenol-d5	69	(10 - 110)
2-Fluorophenol	67	(10 - 110)
2,4,6-Tribromophenol	72	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGP0K1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D080000-048
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**88**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**90**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(27 - 130)
Decachlorobiphenyl	95	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGP061AC **Matrix.....:** WIPE
LCS Lot-Sample#: A1D080000-057
Prep Date.....: 04/08/11 **Analysis Date..:** 04/11/11
Prep Batch #...: 1098057
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**126**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**119**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	130	(10 - 196)
Decachlorobiphenyl	128	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MG25V1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D150000-119
Prep Date.....: 04/15/11 **Analysis Date..:** 04/17/11
Prep Batch #...: 1105119
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**94**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**85**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	97	(27 - 130)
Decachlorobiphenyl	87	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MGQ751CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080551-010 MGQ751CD-MSD
Date Sampled...: 04/06/11 17:15 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108254
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	63	(33 - 145)			SW846 8260B
	64	(33 - 145)	1.5	(0-30)	SW846 8260B
Benzene	**86**	**(72 - 121)**			**SW846 8260B**
	85	**(72 - 121)**	**1.3**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**88**	**(67 - 120)**			**SW846 8260B**
	86	**(67 - 120)**	**1.9**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	78	(75 - 119)			SW846 8260B
	78	(75 - 119)	0.18	(0-30)	SW846 8260B
Bromoform	88	(32 - 128)			SW846 8260B
	85	(32 - 128)	4.0	(0-30)	SW846 8260B
Bromomethane	34	(10 - 186)			SW846 8260B
	34	(10 - 186)	2.2	(0-30)	SW846 8260B
2-Butanone	**79**	**(54 - 129)**			**SW846 8260B**
	78	**(54 - 129)**	**1.0**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**83**	**(57 - 147)**			**SW846 8260B**
	85	**(57 - 147)**	**2.3**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**81**	**(59 - 129)**			**SW846 8260B**
	84	**(59 - 129)**	**2.7**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**90**	**(80 - 110)**			**SW846 8260B**
	87	**(80 - 110)**	**2.8**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**92**	**(56 - 118)**			**SW846 8260B**
	88	**(56 - 118)**	**5.3**	**(0-30)**	**SW846 8260B**
Chloroethane	37	(21 - 165)			SW846 8260B
	36	(21 - 165)	3.6	(0-30)	SW846 8260B
Chloroform	**77**	**(76 - 118)**			**SW846 8260B**
	75 a	**(76 - 118)**	**2.1**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	90	(70 - 152)			SW846 8260B
	103	(70 - 152)	13	(0-30)	SW846 8260B
Methyl acetate	65	(47 - 130)			SW846 8260B
	68	(47 - 130)	4.6	(0-30)	SW846 8260B
Chloromethane	60	(33 - 132)			SW846 8260B
	57	(33 - 132)	5.1	(0-30)	SW846 8260B
Cyclohexane	75	(49 - 123)			SW846 8260B
	87	(49 - 123)	15	(0-30)	SW846 8260B
Methylcyclohexane	79	(49 - 127)			SW846 8260B
	98	(49 - 127)	21	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MGQ751CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080551-010 MGQ751CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**73**	**(32 - 139)**			**SW846 8260B**
	74	**(32 - 139)**	**1.6**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**92**	**(74 - 113)**			**SW846 8260B**
	89	**(74 - 113)**	**3.0**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**81**	**(75 - 111)**			**SW846 8260B**
	79	**(75 - 111)**	**2.2**	**(0-30)**	**SW846 8260B**
o-Xylene	**81**	**(76 - 116)**			**SW846 8260B**
	80	**(76 - 116)**	**1.8**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**85**	**(73 - 110)**			**SW846 8260B**
	83	**(73 - 110)**	**3.2**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**91**	**(75 - 117)**			**SW846 8260B**
	90	**(75 - 117)**	**1.9**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	61	(12 - 182)			SW846 8260B
	61	(12 - 182)	0.02	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**83**	**(75 - 110)**			**SW846 8260B**
	80	**(75 - 110)**	**4.0**	**(0-30)**	**SW846 8260B**
Acrolein	82	(47 - 168)			SW846 8260B
	78	(47 - 168)	4.7	(0-30)	SW846 8260B
Acrylonitrile	74	(62 - 133)			SW846 8260B
	75	(62 - 133)	1.1	(0-30)	SW846 8260B
Vinyl acetate	98	(43 - 157)			SW846 8260B
	99	(43 - 157)	1.6	(0-30)	SW846 8260B
Bromobenzene	**93**	**(71 - 116)**			**SW846 8260B**
	90	**(71 - 116)**	**3.0**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	42	(17 - 128)			SW846 8260B
	49	(17 - 128)	14	(0-30)	SW846 8260B
Bromochloromethane	**83**	**(73 - 121)**			**SW846 8260B**
	81	**(73 - 121)**	**2.7**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**69**	**(56 - 127)**			**SW846 8260B**
	69	**(56 - 127)**	**0.20**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**71**	**(60 - 119)**			**SW846 8260B**
	71	**(60 - 119)**	**0.59**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**72 a**	**(79 - 116)**			**SW846 8260B**
	73 a	**(79 - 116)**	**0.85**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**72**	**(61 - 119)**			**SW846 8260B**
	71	**(61 - 119)**	**0.96**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**85**	**(69 - 117)**			**SW846 8260B**
	84	**(69 - 117)**	**0.93**	**(0-30)**	**SW846 8260B**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MGQ751CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080551-010 MGQ751CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**91**	**(71 - 116)**			**SW846 8260B**
	88	**(71 - 116)**	**3.4**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**82**	**(68 - 129)**			**SW846 8260B**
	81	**(68 - 129)**	**1.0**	**(0-30)**	**SW846 8260B**
Dibromomethane	**92**	**(77 - 121)**			**SW846 8260B**
	90	**(77 - 121)**	**2.3**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**95**	**(74 - 118)**			**SW846 8260B**
	93	**(74 - 118)**	**1.8**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	51	(38 - 127)			SW846 8260B
	54	(38 - 127)	5.6	(0-30)	SW846 8260B
1,1-Dichloropropene	**87**	**(80 - 114)**			**SW846 8260B**
	89	**(80 - 114)**	**2.0**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**78**	**(70 - 120)**			**SW846 8260B**
	78	**(70 - 120)**	**0.67**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	67	(27 - 132)			SW846 8260B
	71	(27 - 132)	5.5	(0-30)	SW846 8260B
Iodomethane	90	(66 - 144)			SW846 8260B
	91	(66 - 144)	1.1	(0-30)	SW846 8260B
Isopropyl ether	72 a	(73 - 118)			SW846 8260B
	71 a	(73 - 118)	0.93	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**77 a**	**(80 - 119)**			**SW846 8260B**
	77 a	**(80 - 119)**	**0.35**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**74**	**(64 - 122)**			**SW846 8260B**
	74	**(64 - 122)**	**1.2**	**(0-30)**	**SW846 8260B**
Naphthalene	56	(15 - 158)			SW846 8260B
	58	(15 - 158)	3.1	(0-30)	SW846 8260B
n-Propylbenzene	**86**	**(64 - 124)**			**SW846 8260B**
	85	**(64 - 124)**	**1.3**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**77**	**(74 - 135)**			**SW846 8260B**
	79	**(74 - 135)**	**2.0**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**74**	**(64 - 118)**			**SW846 8260B**
	72	**(64 - 118)**	**3.0**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	77	(45 - 129)			SW846 8260B
	77	(45 - 129)	0.27	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**89**	**(67 - 132)**			**SW846 8260B**
	85	**(67 - 132)**	**4.7**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**77**	**(67 - 124)**			**SW846 8260B**
	74	**(67 - 124)**	**3.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**86**	**(78 - 115)**			**SW846 8260B**
	85	**(78 - 115)**	**0.90**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**75**	**(63 - 121)**			**SW846 8260B**
	74	**(63 - 121)**	**1.2**	**(0-30)**	**SW846 8260B**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MGQ751CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080551-010 MGQ751CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**81**	**(51 - 110)**			**SW846 8260B**
	80	**(51 - 110)**	**1.5**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**87**	**(46 - 116)**			**SW846 8260B**
	83	**(46 - 116)**	**5.2**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**91**	**(75 - 116)**			**SW846 8260B**
	89	**(75 - 116)**	**1.4**	**(0-30)**	**SW846 8260B**
n-Hexane	98	(54 - 138)			SW846 8260B
	124	(54 - 138)	24	(0-30)	SW846 8260B
2-Hexanone	**93**	**(47 - 139)**			**SW846 8260B**
	93	**(47 - 139)**	**0.44**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**71**	**(68 - 116)**			**SW846 8260B**
	70	**(68 - 116)**	**1.3**	**(0-30)**	**SW846 8260B**
Methylene chloride	**71**	**(63 - 128)**			**SW846 8260B**
	71	**(63 - 128)**	**0.11**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**92**	**(56 - 131)**			**SW846 8260B**
	88	**(56 - 131)**	**4.5**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**56**	**(46 - 144)**			**SW846 8260B**
	58	**(46 - 144)**	**2.6**	**(0-30)**	**SW846 8260B**
Styrene	**86**	**(71 - 117)**			**SW846 8260B**
	83	**(71 - 117)**	**3.8**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**86**	**(63 - 122)**			**SW846 8260B**
	83	**(63 - 122)**	**2.9**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**93**	**(70 - 117)**			**SW846 8260B**
	96	**(70 - 117)**	**2.5**	**(0-30)**	**SW846 8260B**
Toluene	**91**	**(78 - 114)**			**SW846 8260B**
	89	**(78 - 114)**	**2.8**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	66	(38 - 138)			SW846 8260B
	67	(38 - 138)	2.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**65 a**	**(68 - 121)**			**SW846 8260B**
	68	**(68 - 121)**	**3.8**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**96**	**(75 - 115)**			**SW846 8260B**
	92	**(75 - 115)**	**3.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**94**	**(66 - 120)**			**SW846 8260B**
	93	**(66 - 120)**	**1.1**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	78	(46 - 157)			SW846 8260B
	82	(46 - 157)	5.7	(0-30)	SW846 8260B
Vinyl chloride	**58**	**(49 - 130)**			**SW846 8260B**
	60	**(49 - 130)**	**3.1**	**(0-30)**	**SW846 8260B**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D070562 **Work Order #...:** MGQ751CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D080551-010 MGQ751CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**88**	**(76 - 116)**			**SW846 8260B**
	86	**(76 - 116)**	**1.8**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(75 - 121)
	89	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
	90	(63 - 129)
Toluene-d8	97	(74 - 115)
	99	(74 - 115)
4-Bromofluorobenzene	92	(66 - 117)
	93	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGN871AE-MS **Matrix.....:** WG
MS Lot-Sample #: A1D070562-001 MGN871AF-MSD
Date Sampled...: 04/06/11 09:33 **Date Received..:** 04/07/11
Prep Date.....: 04/08/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1098048
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**0.0 a**	**(10 - 166)**			**SW846 8082**
	0.0 a	**(10 - 166)**	**0.0**	**(0-30)**	**SW846 8082**
Aroclor 1260	**0.0 a**	**(21 - 140)**			**SW846 8082**
	0.0 a	**(21 - 140)**	**0.0**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	109	(27 - 130)
	104	(27 - 130)
Decachlorobiphenyl	76	(10 - 127)
	76	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D070562 **Work Order #...:** MGN871AG-MS **Matrix.....:** WG
MS Lot-Sample #: A1D070562-001 MGN871AH-MSD
Date Sampled...: 04/06/11 09:33 **Date Received..:** 04/07/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/17/11
Prep Batch #...: 1105119
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**79**	**(10 - 166)**			**SW846 8082**
	33 p	**(10 - 166)**	**81**	**(0-30)**	**SW846 8082**
Aroclor 1260	**67**	**(21 - 140)**			**SW846 8082**
	26 p	**(21 - 140)**	**88**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(27 - 130)
	36	(27 - 130)
Decachlorobiphenyl	64	(10 - 127)
	24	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact:	Lab Contact: Denise Pohl	COC No: 017493
Address: 250 W Court #200W	Telephone:	Telephone:	Telephone:	1 of ____ COCs
City/State/Zip: Cinci OH 45204	Email: Vicky.Farmer@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 573 333 3666		TAT if different from below ____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐
Project Name: Manshed	Method of Shipment/Carrier:			Job/SDG No:
Project Number:	Shipping/Tracking No:			
PO#				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite / Grab	PCB	VOC	PAH	Sample Specific Notes / Special Instructions:
SWO1-SWH-0411	4-6-11	0933		X									X		N	G	X			MS/MSD
SWDUP1	4-6-11	0933		X									X				X			
GW54-LAN-0411		1635		X						X			X				X	X	X	
WP01-SWH-0411		0948					X							hexane			X			
02		0950																		
03		0952																		
04		0955																		
05		0957																		
06		0959																		
07		1002																		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: V Farmer	Company: TT	Date/Time: 4-6-11 / 1803	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 4-7-11 0930

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: TetraTech	Client Project Manager:	Site Contact:	Lab Contact: Denise POL	COC No: 019546
Address: 250 N Court #200 N	Telephone:	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUSINESS days)	Analyses	For lab use only
Phone: 573 333 3660		TAT if different from below _____ 3 weeks 2 weeks 1 week 2 days 1 day		Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ Job/SDG No:
Project Name: Mansfield	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	PCB	BTEX	VOC	Sample Specific Notes / Special Instructions:
WP08-SWH-0411	4-6-11	1005					X							Y						
09		1010																		
10		1013																		
Blank		1015																		
GW53-LAN-0411		1513		X						X			X					X		
GW52-LAN-0411		1407																		
GW51-LAN-0411		1328																		
Trip blank		1747																		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: Maurer	Company: TT	Date/Time: 4/6@1803	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 4-7-11 0930

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TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A1D0705G2

Client Tetra tech Project Mansfield By: _____ (Signature)
Cooler Received on 4-7-11 Opened on 4-7-11
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☑ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity 3 Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☑ No ☐ NA ☐
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☑ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☑
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☐ No ☑
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐

Contacted PM DJP Date 4/7/11 by gm via Verbal ☐ Voice Mail ☐ Other ☒ Email
Concerning #14

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Received lab broken for samples SW01-SWH-0411 & GW52-LAN-0411. Enough volume remains to run PCBs & PAHs.
COC # 19546 has VOC listed for wipe samples 08, 09 10, & Blank.
Only received 1 wipe per sample & jar label has PCB only written in the analysis part of the label. Will only log for PCBs.
Will log wipes w/ ID of WP# - SWH-0411 per jar labels. COC

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired. over
Sample(s) LXL-933 LXL 1407 were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot# 100110-HNO_3; Sulfuric Acid Lot# 110410-H_2SO_4; Sodium Hydroxide Lot# 100108 -NaOH; Hydrochloric Acid Lot# 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-$(CH_3COO)_2ZN$/NaOH.* What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A540	0.2	IR	Ice
A605	1.3	〃	〃
A659	1.0	〃	〃

Discrepancies Cont'd:

IDs are not complete. Will log Blank as Blank as this is the only ID on the jar.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

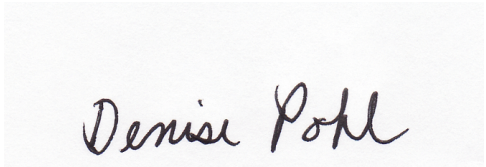
MANSFIELD STAMPING PLANT

Lot #: A1D080647

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/26/2011 2:22 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 26, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D080647

The following report contains the analytical results for twelve solid samples, two water samples and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site. The samples were received April 08, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnaphthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 25, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

CASE NARRATIVE (continued)

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.4 and 2.8°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 1108284, 1104399 and 1109159 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Sample(s) SB103-HAZ-10-0411, SB51-LAN-25-0411, and SB53-LAN-22-0411 were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate(s) for SDDUP01 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch(es) 1102046.

For the LCS associated with batch(es) 1102046 and 1104059, no corrective action was taken for 4-Chlorophenyl phenyl ether failure, due to questionable analyte concentration in calibration. If a hit for this analyte is detected, further corrective action would be required.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 1110133. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

The method blank associated with batch(es) 1110133 is being reported with concentrations greater than one half of the reporting limit. Corrective action was not required.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The analytical results met the requirements of the laboratory’s QA/QC program.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082 (continued)

Insufficient sample volume was provided to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch(es) 1099024.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D080647

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW103-HAZ-0411 04/07/11 14:54 002				
Aroclor 1248	0.10 J	0.50	ug/L	SW846 8082
SDDUP01 04/07/11 003				
Acenaphthene	330	210	ug/kg	SW846 8270C
Anthracene	860	210	ug/kg	SW846 8270C
Benzo(a)anthracene	6400	210	ug/kg	SW846 8270C
Benzo(a)pyrene	8200	210	ug/kg	SW846 8270C
Benzo(b)fluoranthene	12000	210	ug/kg	SW846 8270C
Benzo(ghi)perylene	7300	210	ug/kg	SW846 8270C
Benzo(k)fluoranthene	5400	210	ug/kg	SW846 8270C
Chrysene	9400	210	ug/kg	SW846 8270C
Fluoranthene	18000	210	ug/kg	SW846 8270C
Fluorene	300	210	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	6200	210	ug/kg	SW846 8270C
Phenanthrene	6000	210	ug/kg	SW846 8270C
Pyrene	13000	210	ug/kg	SW846 8270C
Acetone	29 J,B	32	ug/kg	SW846 8260A
2-Butanone	5.7 J	32	ug/kg	SW846 8260A
Methylene chloride	6.7 J,B	7.9	ug/kg	SW846 8260A
Percent Solids	63.1	10.0	%	MCAWW 160.3 MOD
SD02-SSA-0411 04/07/11 14:20 004				
Acenaphthene	1200	200	ug/kg	SW846 8270C
Anthracene	2700	200	ug/kg	SW846 8270C
Benzo(a)anthracene	10000	200	ug/kg	SW846 8270C
Benzo(a)pyrene	10000	200	ug/kg	SW846 8270C
Benzo(b)fluoranthene	15000	200	ug/kg	SW846 8270C
Benzo(ghi)perylene	7500	200	ug/kg	SW846 8270C
Benzo(k)fluoranthene	7900	200	ug/kg	SW846 8270C
Chrysene	12000	200	ug/kg	SW846 8270C
Fluoranthene	28000	200	ug/kg	SW846 8270C
Fluorene	1200	200	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	6400	200	ug/kg	SW846 8270C
2-Methylnaphthalene	220	200	ug/kg	SW846 8270C
Naphthalene	260	200	ug/kg	SW846 8270C
Phenanthrene	16000	200	ug/kg	SW846 8270C
Pyrene	20000	200	ug/kg	SW846 8270C
Acetone	63 B	31	ug/kg	SW846 8260A
2-Butanone	10 J	31	ug/kg	SW846 8260A
Methylene chloride	5.2 J,B	7.7	ug/kg	SW846 8260A
Percent Solids	65.2	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D080647

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD01-SSA-0411 04/07/11 14:03 005				
Anthracene	35	13	ug/kg	SW846 8270C
Benzo(a)anthracene	290	13	ug/kg	SW846 8270C
Benzo(a)pyrene	400	13	ug/kg	SW846 8270C
Benzo(b)fluoranthene	890	13	ug/kg	SW846 8270C
Benzo(ghi)perylene	550	13	ug/kg	SW846 8270C
Benzo(k)fluoranthene	310	13	ug/kg	SW846 8270C
Chrysene	520	13	ug/kg	SW846 8270C
Fluoranthene	720	13	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	460	13	ug/kg	SW846 8270C
2-Methylnaphthalene	14	13	ug/kg	SW846 8270C
Phenanthrene	180	13	ug/kg	SW846 8270C
Pyrene	540	13	ug/kg	SW846 8270C
Acetone	25 J,B	39	ug/kg	SW846 8260A
2-Butanone	4.0 J	39	ug/kg	SW846 8260A
Methylene chloride	8.6 J,B	9.7	ug/kg	SW846 8260A
Percent Solids	51.8	10.0	%	MCAWW 160.3 MOD
SD03-SSA-0411 04/07/11 14:38 006				
Acenaphthene	200	38	ug/kg	SW846 8270C
Anthracene	300	38	ug/kg	SW846 8270C
Benzo(a)anthracene	1400	38	ug/kg	SW846 8270C
Benzo(a)pyrene	1500	38	ug/kg	SW846 8270C
Benzo(b)fluoranthene	2500	38	ug/kg	SW846 8270C
Benzo(ghi)perylene	1100	38	ug/kg	SW846 8270C
Benzo(k)fluoranthene	960	38	ug/kg	SW846 8270C
Chrysene	1800	38	ug/kg	SW846 8270C
Fluoranthene	3900	38	ug/kg	SW846 8270C
Fluorene	180	38	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	950	38	ug/kg	SW846 8270C
Naphthalene	54	38	ug/kg	SW846 8270C
Phenanthrene	1700	38	ug/kg	SW846 8270C
Pyrene	2800	38	ug/kg	SW846 8270C
Acetone	19 J,B	29	ug/kg	SW846 8260A
2-Butanone	3.3 J	29	ug/kg	SW846 8260A
Methylene chloride	7.2 B	7.2	ug/kg	SW846 8260A
Percent Solids	69.8	10.0	%	MCAWW 160.3 MOD
SB54-LAN-5-0411 04/06/11 15:15 007				
Mercury	0.030 B	0.11	mg/kg	SW846 7471A
Arsenic	12.6	1.2	mg/kg	SW846 6010B
Lead	11.4	0.37	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D080647

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB54-LAN-5-0411 04/06/11 15:15 007				
Barium	64.6 J	24.4	mg/kg	SW846 6010B
Chromium	10.5	1.2	mg/kg	SW846 6010B
Acetone	18 J,B	25	ug/kg	SW846 8260A
Methylene chloride	9.5 B	6.2	ug/kg	SW846 8260A
Percent Solids	80.3	10.0	%	MCAWW 160.3 MOD
SB52-LAN-28-0411 04/06/11 12:12 008				
Arsenic	11.2	1.2	mg/kg	SW846 6010B
Lead	7.6	0.35	mg/kg	SW846 6010B
Barium	23.9 J	23.4	mg/kg	SW846 6010B
Chromium	4.7	1.2	mg/kg	SW846 6010B
Acetone	23 J,B	24	ug/kg	SW846 8260A
Methylene chloride	5.8 J,B	5.9	ug/kg	SW846 8260A
Percent Solids	84.7	10.0	%	MCAWW 160.3 MOD
SB53-LAN-22-0411 04/06/11 14:30 009				
Arsenic	17.7	0.92	mg/kg	SW846 6010B
Lead	11.2	0.27	mg/kg	SW846 6010B
Barium	47.8 J	18.3	mg/kg	SW846 6010B
Cadmium	0.35 B	0.46	mg/kg	SW846 6010B
Chromium	9.8	0.92	mg/kg	SW846 6010B
Benzo(ghi)perylene	19	7.6	ug/kg	SW846 8270C
Chrysene	13	7.6	ug/kg	SW846 8270C
1-Methylnaphthalene	61	7.6	ug/kg	SW846 8270C
2-Methylnaphthalene	74	7.6	ug/kg	SW846 8270C
Phenanthrene	45	7.6	ug/kg	SW846 8270C
Acetone	23 B	23	ug/kg	SW846 8260A
2-Butanone	2.1 J	23	ug/kg	SW846 8260A
Carbon disulfide	1.1 J	5.7	ug/kg	SW846 8260A
Methylene chloride	4.6 J,B	5.7	ug/kg	SW846 8260A
Percent Solids	87.4	10.0	%	MCAWW 160.3 MOD
SB51-LAN-25-0411 04/06/11 10:58 010				
Arsenic	13.2	1.1	mg/kg	SW846 6010B
Lead	10.5	0.34	mg/kg	SW846 6010B
Barium	55.7 J	22.9	mg/kg	SW846 6010B
Chromium	10.8	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	28	8.0	ug/kg	SW846 8270C
2-Methylnaphthalene	31	8.0	ug/kg	SW846 8270C
Phenanthrene	35	8.0	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D080647

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB51-LAN-25-0411 04/06/11 10:58 010				
Acetone	23 J,B	24	ug/kg	SW846 8260A
Carbon disulfide	1.1 J	6.0	ug/kg	SW846 8260A
Methylene chloride	5.5 J,B	6.0	ug/kg	SW846 8260A
Percent Solids	83.0	10.0	%	MCAWW 160.3 MOD
SB103-HAZ-5-0411 04/07/11 09:31 011				
Aroclor 1242	24 J	40	ug/kg	SW846 8082
Arsenic	17.6	0.99	mg/kg	SW846 6010B
Lead	15.5	0.30	mg/kg	SW846 6010B
Barium	54.8 J	19.9	mg/kg	SW846 6010B
Chromium	10.9	0.99	mg/kg	SW846 6010B
Benzo(b)fluoranthene	36	8.0	ug/kg	SW846 8270C
Chrysene	13	8.0	ug/kg	SW846 8270C
Fluoranthene	18	8.0	ug/kg	SW846 8270C
Pyrene	15	8.0	ug/kg	SW846 8270C
Acetone	29 B	24	ug/kg	SW846 8260A
1,2-Dichloroethane	0.48 J	6.0	ug/kg	SW846 8260A
Methylene chloride	9.8 B	6.0	ug/kg	SW846 8260A
Percent Solids	83.5	10.0	%	MCAWW 160.3 MOD
SB103-HAZ-10-0411 04/07/11 09:40 012				
Mercury	0.024 B	0.11	mg/kg	SW846 7471A
Arsenic	15.4	1.1	mg/kg	SW846 6010B
Lead	11.3	0.33	mg/kg	SW846 6010B
Selenium	0.53 B	0.55	mg/kg	SW846 6010B
Barium	46.8 J	21.8	mg/kg	SW846 6010B
Chromium	10.1	1.1	mg/kg	SW846 6010B
Benzo(ghi)perylene	18	7.4	ug/kg	SW846 8270C
Chrysene	16	7.4	ug/kg	SW846 8270C
1-Methylnaphthalene	41	7.4	ug/kg	SW846 8270C
2-Methylnaphthalene	39	7.4	ug/kg	SW846 8270C
Phenanthrene	36	7.4	ug/kg	SW846 8270C
Acetone	43 B	22	ug/kg	SW846 8260A
Benzene	0.32 J	5.6	ug/kg	SW846 8260A
2-Butanone	3.3 J	22	ug/kg	SW846 8260A
Carbon disulfide	2.1 J	5.6	ug/kg	SW846 8260A
1,2-Dichloroethane	0.67 J	5.6	ug/kg	SW846 8260A
Methylene chloride	46 B	5.6	ug/kg	SW846 8260A
Toluene	0.35 J	5.6	ug/kg	SW846 8260A
Percent Solids	89.8	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D080647

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB104-HAZ-15-0411 04/07/11 11:12 013				
Arsenic	17.6	1.2	mg/kg	SW846 6010B
Lead	15.5	0.35	mg/kg	SW846 6010B
Barium	68.8 J	23.3	mg/kg	SW846 6010B
Chromium	13.6	1.2	mg/kg	SW846 6010B
Acetone	36 B	24	ug/kg	SW846 8260A
2-Butanone	3.1 J	24	ug/kg	SW846 8260A
1,2-Dichloroethane	0.49 J	6.1	ug/kg	SW846 8260A
Methylene chloride	11 B	6.1	ug/kg	SW846 8260A
Percent Solids	82.4	10.0	%	MCAWW 160.3 MOD
SB21-FTF-20-0411 04/07/11 15:58 014				
C20-C34	210	19	mg/kg	SW846 8015B
C10-C20	170	19	mg/kg	SW846 8015B
1-Methylnaphthalene	48	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	52	7.5	ug/kg	SW846 8270C
Phenanthrene	43	7.5	ug/kg	SW846 8270C
Acetone	29 B	22	ug/kg	SW846 8260A
Carbon disulfide	0.75 J	5.6	ug/kg	SW846 8260A
Methylene chloride	9.2 B	5.6	ug/kg	SW846 8260A
Percent Solids	88.9	10.0	%	MCAWW 160.3 MOD
TRIP BLANK 04/07/11 17:21 015				
Bromodichloromethane	2.9	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.58 J	1.0	ug/L	SW846 8260B
Chloroform	8.1	1.0	ug/L	SW846 8260B
Toluene	0.92 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D080647

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D080647

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MGR3R	001	GW103-HAZ-0411	04/07/11	12:57
MGR3V	002	GW103-HAZ-0411	04/07/11	14:54
MGR3W	003	SDDUP01	04/07/11	
MGR3X	004	SD02-SSA-0411	04/07/11	14:20
MGR30	005	SD01-SSA-0411	04/07/11	14:03
MGR31	006	SD03-SSA-0411	04/07/11	14:38
MGR32	007	SB54-LAN-5-0411	04/06/11	15:15
MGR33	008	SB52-LAN-28-0411	04/06/11	12:12
MGR34	009	SB53-LAN-22-0411	04/06/11	14:30
MGR35	010	SB51-LAN-25-0411	04/06/11	10:58
MGR36	011	SB103-HAZ-5-0411	04/07/11	09:31
MGR37	012	SB103-HAZ-10-0411	04/07/11	09:40
MGR38	013	SB104-HAZ-15-0411	04/07/11	11:12
MGR39	014	SB21-FTF-20-0411	04/07/11	15:58
MGR4A	015	TRIP BLANK	04/07/11	17:21

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: GW103-HAZ-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-001 **Work Order #...:** MGR3R1AC **Matrix.....:** WG
Date Sampled...: 04/07/11 12:57 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1102046
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	52	(27 - 111)
2-Fluorobiphenyl	52	(28 - 110)
Terphenyl-d14	52	(37 - 119)
Phenol-d5	56	(10 - 110)
2-Fluorophenol	56	(10 - 110)
2,4,6-Tribromophenol	53	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW103-HAZ-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-002 **Work Order #...:** MGR3V1AC **Matrix.....:** WG
Date Sampled...: 04/07/11 14:54 **Date Received..:** 04/08/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1108284
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW103-HAZ-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-002 **Work Order #...:** MGR3V1AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	85	(74 - 115)
4-Bromofluorobenzene	70	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: GW103-HAZ-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-002 **Work Order #...:** MGR3V1AA **Matrix.....:** WG
Date Sampled...: 04/07/11 14:54 **Date Received..:** 04/08/11
Prep Date.....: 04/09/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1099024
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	**0.10 J**	**0.50**	**ug/L**	**0.10**
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(27 - 130)
Decachlorobiphenyl	18	(10 - 127)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SDDUP01

GC/MS Volatiles

Lot-Sample #...: A1D080647-003 **Work Order #...:** MGR3W1AC **Matrix.....:** SO
Date Sampled...: 04/07/11 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 37 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**29 J,B**	**32**	**ug/kg**	**10**
Benzene	ND	7.9	ug/kg	0.36
Bromodichloromethane	ND	7.9	ug/kg	0.44
Bromoform	ND	7.9	ug/kg	0.52
Bromomethane	ND	16	ug/kg	0.86
2-Butanone	**5.7 J**	**32**	**ug/kg**	**2.2**
Carbon disulfide	ND	7.9	ug/kg	0.70
Carbon tetrachloride	ND	7.9	ug/kg	0.59
Chlorobenzene	ND	7.9	ug/kg	0.52
Dibromochloromethane	ND	7.9	ug/kg	0.87
Chloroethane	ND	16	ug/kg	1.4
Chloroform	ND	7.9	ug/kg	0.46
Chloromethane	ND	16	ug/kg	0.65
1,2-Dibromo-3-chloro-propane	ND	16	ug/kg	2.1
1,2-Dibromoethane	ND	7.9	ug/kg	0.79
1,2-Dichlorobenzene	ND	7.9	ug/kg	0.57
1,3-Dichlorobenzene	ND	7.9	ug/kg	0.55
1,4-Dichlorobenzene	ND	7.9	ug/kg	1.0
Dichlorodifluoromethane	ND	16	ug/kg	0.79
1,1-Dichloroethane	ND	7.9	ug/kg	0.57
1,2-Dichloroethane	ND	7.9	ug/kg	0.54
cis-1,2-Dichloroethene	ND	4.0	ug/kg	0.57
trans-1,2-Dichloroethene	ND	4.0	ug/kg	0.65
1,1-Dichloroethene	ND	7.9	ug/kg	0.82
1,2-Dichloropropane	ND	7.9	ug/kg	1.1
cis-1,3-Dichloropropene	ND	7.9	ug/kg	0.54
trans-1,3-Dichloropropene	ND	7.9	ug/kg	0.86
Ethylbenzene	ND	7.9	ug/kg	0.41
n-Hexane	ND	7.9	ug/kg	1.9
2-Hexanone	ND	32	ug/kg	1.0
Isopropylbenzene	ND	7.9	ug/kg	0.25
Methylene chloride	**6.7 J,B**	**7.9**	**ug/kg**	**1.1**
4-Methyl-2-pentanone	ND	32	ug/kg	0.86
Methyl tert-butyl ether (MTBE)	ND	32	ug/kg	0.68
Styrene	ND	7.9	ug/kg	0.24
1,1,2,2-Tetrachloroethane	ND	7.9	ug/kg	0.54

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Ohio Environmental Protection Agency

Client Sample ID: SDDUP01

GC/MS Volatiles

Lot-Sample #...: A1D080647-003 **Work Order #...:** MGR3W1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	7.9	ug/kg	0.82
Toluene	ND	7.9	ug/kg	0.43
1,2,4-Trichloro-benzene	ND	7.9	ug/kg	0.43
1,1,1-Trichloroethane	ND	7.9	ug/kg	0.89
1,1,2-Trichloroethane	ND	7.9	ug/kg	0.62
Trichloroethene	ND	7.9	ug/kg	0.67
Trichlorofluoromethane	ND	16	ug/kg	0.54
Vinyl chloride	ND	3.2	ug/kg	0.62
Xylenes (total)	ND	7.9	ug/kg	1.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	91	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SDDUP01

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-003 **Work Order #...:** MGR3W1AD **Matrix.....:** SO
Date Sampled...: 04/07/11 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 20
% Moisture.....: 37 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**330**	**210**	**ug/kg**	**100**
Acenaphthylene	ND	210	ug/kg	100
Anthracene	**860**	**210**	**ug/kg**	**100**
Benzo(a)anthracene	**6400**	**210**	**ug/kg**	**100**
Benzo(a)pyrene	**8200**	**210**	**ug/kg**	**100**
Benzo(b)fluoranthene	**12000**	**210**	**ug/kg**	**100**
Benzo(ghi)perylene	**7300**	**210**	**ug/kg**	**100**
Benzo(k)fluoranthene	**5400**	**210**	**ug/kg**	**100**
Chrysene	**9400**	**210**	**ug/kg**	**35**
Dibenz(a,h)anthracene	ND	210	ug/kg	100
Fluoranthene	**18000**	**210**	**ug/kg**	**100**
Fluorene	**300**	**210**	**ug/kg**	**100**
Indeno(1,2,3-cd)pyrene	**6200**	**210**	**ug/kg**	**100**
1-Methylnaphthalene	ND	210	ug/kg	100
2-Methylnaphthalene	ND	210	ug/kg	100
Naphthalene	ND	210	ug/kg	100
Phenanthrene	**6000**	**210**	**ug/kg**	**100**
Pyrene	**13000**	**210**	**ug/kg**	**100**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47 DIL	(24 - 112)
2-Fluorobiphenyl	59 DIL	(34 - 110)
Terphenyl-d14	70 DIL	(41 - 119)
Phenol-d5	34 DIL	(28 - 110)
2-Fluorophenol	53 DIL	(26 - 110)
2,4,6-Tribromophenol	31 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SDDUP01

General Chemistry

Lot-Sample #...: A1D080647-003 **Work Order #...:** MGR3W **Matrix.....:** SO
Date Sampled...: 04/07/11 **Date Received..:** 04/08/11
% Moisture.....: 37

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**63.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD02-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-004 **Work Order #...:** MGR3X1AC **Matrix.....:** SO
Date Sampled...: 04/07/11 14:20 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 35 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**63 B**	**31**	**ug/kg**	**9.7**
Benzene	ND	7.7	ug/kg	0.35
Bromodichloromethane	ND	7.7	ug/kg	0.43
Bromoform	ND	7.7	ug/kg	0.51
Bromomethane	ND	15	ug/kg	0.83
2-Butanone	**10 J**	**31**	**ug/kg**	**2.1**
Carbon disulfide	ND	7.7	ug/kg	0.68
Carbon tetrachloride	ND	7.7	ug/kg	0.57
Chlorobenzene	ND	7.7	ug/kg	0.51
Dibromochloromethane	ND	7.7	ug/kg	0.84
Chloroethane	ND	15	ug/kg	1.3
Chloroform	ND	7.7	ug/kg	0.45
Chloromethane	ND	15	ug/kg	0.63
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg	2.0
1,2-Dibromoethane	ND	7.7	ug/kg	0.77
1,2-Dichlorobenzene	ND	7.7	ug/kg	0.55
1,3-Dichlorobenzene	ND	7.7	ug/kg	0.54
1,4-Dichlorobenzene	ND	7.7	ug/kg	1.0
Dichlorodifluoromethane	ND	15	ug/kg	0.77
1,1-Dichloroethane	ND	7.7	ug/kg	0.55
1,2-Dichloroethane	ND	7.7	ug/kg	0.52
cis-1,2-Dichloroethene	ND	3.8	ug/kg	0.55
trans-1,2-Dichloroethene	ND	3.8	ug/kg	0.63
1,1-Dichloroethene	ND	7.7	ug/kg	0.80
1,2-Dichloropropane	ND	7.7	ug/kg	1.1
cis-1,3-Dichloropropene	ND	7.7	ug/kg	0.52
trans-1,3-Dichloropropene	ND	7.7	ug/kg	0.83
Ethylbenzene	ND	7.7	ug/kg	0.40
n-Hexane	ND	7.7	ug/kg	1.8
2-Hexanone	ND	31	ug/kg	0.97
Isopropylbenzene	ND	7.7	ug/kg	0.25
Methylene chloride	**5.2 J,B**	**7.7**	**ug/kg**	**1.0**
4-Methyl-2-pentanone	ND	31	ug/kg	0.83
Methyl tert-butyl ether (MTBE)	ND	31	ug/kg	0.66
Styrene	ND	7.7	ug/kg	0.23
1,1,2,2-Tetrachloroethane	ND	7.7	ug/kg	0.52

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Ohio Environmental Protection Agency

Client Sample ID: SD02-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-004 **Work Order #...:** MGR3X1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	7.7	ug/kg	0.80
Toluene	ND	7.7	ug/kg	0.41
1,2,4-Trichloro-benzene	ND	7.7	ug/kg	0.41
1,1,1-Trichloroethane	ND	7.7	ug/kg	0.86
1,1,2-Trichloroethane	ND	7.7	ug/kg	0.60
Trichloroethene	ND	7.7	ug/kg	0.64
Trichlorofluoromethane	ND	15	ug/kg	0.52
Vinyl chloride	ND	3.1	ug/kg	0.60
Xylenes (total)	ND	7.7	ug/kg	1.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	112	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD02-SSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-004 **Work Order #...:** MGR3X1AD **Matrix.....:** SO
Date Sampled...: 04/07/11 14:20 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 20
% Moisture.....: 35 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**1200**	**200**	**ug/kg**	**100**
Acenaphthylene	ND	200	ug/kg	100
Anthracene	**2700**	**200**	**ug/kg**	**100**
Benzo(a)anthracene	**10000**	**200**	**ug/kg**	**100**
Benzo(a)pyrene	**10000**	**200**	**ug/kg**	**100**
Benzo(b)fluoranthene	**15000**	**200**	**ug/kg**	**100**
Benzo(ghi)perylene	**7500**	**200**	**ug/kg**	**100**
Benzo(k)fluoranthene	**7900**	**200**	**ug/kg**	**100**
Chrysene	**12000**	**200**	**ug/kg**	**34**
Dibenz(a,h)anthracene	ND	200	ug/kg	100
Fluoranthene	**28000**	**200**	**ug/kg**	**100**
Fluorene	**1200**	**200**	**ug/kg**	**100**
Indeno(1,2,3-cd)pyrene	**6400**	**200**	**ug/kg**	**100**
1-Methylnaphthalene	ND	200	ug/kg	100
2-Methylnaphthalene	**220**	**200**	**ug/kg**	**100**
Naphthalene	**260**	**200**	**ug/kg**	**100**
Phenanthrene	**16000**	**200**	**ug/kg**	**100**
Pyrene	**20000**	**200**	**ug/kg**	**100**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	35 DIL	(24 - 112)
2-Fluorobiphenyl	62 DIL	(34 - 110)
Terphenyl-d14	74 DIL	(41 - 119)
Phenol-d5	46 DIL	(28 - 110)
2-Fluorophenol	63 DIL	(26 - 110)
2,4,6-Tribromophenol	24 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD02-SSA-0411

General Chemistry

Lot-Sample #...: A1D080647-004 **Work Order #...:** MGR3X **Matrix.....:** SO
Date Sampled...: 04/07/11 14:20 **Date Received..:** 04/08/11
% Moisture.....: 35

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**65.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD01-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-005 **Work Order #...:** MGR301AC **Matrix.....:** SO
Date Sampled...: 04/07/11 14:03 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 48 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**25 J,B**	**39**	**ug/kg**	**12**
Benzene	ND	9.7	ug/kg	0.44
Bromodichloromethane	ND	9.7	ug/kg	0.54
Bromoform	ND	9.7	ug/kg	0.64
Bromomethane	ND	19	ug/kg	1.0
2-Butanone	**4.0 J**	**39**	**ug/kg**	**2.7**
Carbon disulfide	ND	9.7	ug/kg	0.85
Carbon tetrachloride	ND	9.7	ug/kg	0.71
Chlorobenzene	ND	9.7	ug/kg	0.64
Dibromochloromethane	ND	9.7	ug/kg	1.1
Chloroethane	ND	19	ug/kg	1.7
Chloroform	ND	9.7	ug/kg	0.56
Chloromethane	ND	19	ug/kg	0.79
1,2-Dibromo-3-chloro-propane	ND	19	ug/kg	2.5
1,2-Dibromoethane	ND	9.7	ug/kg	0.97
1,2-Dichlorobenzene	ND	9.7	ug/kg	0.70
1,3-Dichlorobenzene	ND	9.7	ug/kg	0.68
1,4-Dichlorobenzene	ND	9.7	ug/kg	1.3
Dichlorodifluoromethane	ND	19	ug/kg	0.97
1,1-Dichloroethane	ND	9.7	ug/kg	0.70
1,2-Dichloroethane	ND	9.7	ug/kg	0.66
cis-1,2-Dichloroethene	ND	4.8	ug/kg	0.70
trans-1,2-Dichloroethene	ND	4.8	ug/kg	0.79
1,1-Dichloroethene	ND	9.7	ug/kg	1.0
1,2-Dichloropropane	ND	9.7	ug/kg	1.3
cis-1,3-Dichloropropene	ND	9.7	ug/kg	0.66
trans-1,3-Dichloropropene	ND	9.7	ug/kg	1.0
Ethylbenzene	ND	9.7	ug/kg	0.50
n-Hexane	ND	9.7	ug/kg	2.3
2-Hexanone	ND	39	ug/kg	1.2
Isopropylbenzene	ND	9.7	ug/kg	0.31
Methylene chloride	**8.6 J,B**	**9.7**	**ug/kg**	**1.3**
4-Methyl-2-pentanone	ND	39	ug/kg	1.0
Methyl tert-butyl ether (MTBE)	ND	39	ug/kg	0.83
Styrene	ND	9.7	ug/kg	0.29
1,1,2,2-Tetrachloroethane	ND	9.7	ug/kg	0.66

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Ohio Environmental Protection Agency

Client Sample ID: SD01-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-005 **Work Order #...:** MGR301AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	9.7	ug/kg	1.0
Toluene	ND	9.7	ug/kg	0.52
1,2,4-Trichloro-benzene	ND	9.7	ug/kg	0.52
1,1,1-Trichloroethane	ND	9.7	ug/kg	1.1
1,1,2-Trichloroethane	ND	9.7	ug/kg	0.75
Trichloroethene	ND	9.7	ug/kg	0.81
Trichlorofluoromethane	ND	19	ug/kg	0.66
Vinyl chloride	ND	3.9	ug/kg	0.75
Xylenes (total)	ND	9.7	ug/kg	1.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(30 - 122)
1,2-Dichloroethane-d4	107	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD01-SSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-005 **Work Order #...:** MGR301AD **Matrix.....:** SO
Date Sampled...: 04/07/11 14:03 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 48 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	13	ug/kg	6.4
Acenaphthylene	ND	13	ug/kg	6.4
Anthracene	**35**	**13**	**ug/kg**	**6.4**
Benzo(a)anthracene	**290**	**13**	**ug/kg**	**6.4**
Benzo(a)pyrene	**400**	**13**	**ug/kg**	**6.4**
Benzo(b)fluoranthene	**890**	**13**	**ug/kg**	**6.4**
Benzo(ghi)perylene	**550**	**13**	**ug/kg**	**6.4**
Benzo(k)fluoranthene	**310**	**13**	**ug/kg**	**6.4**
Chrysene	**520**	**13**	**ug/kg**	**2.1**
Dibenz(a,h)anthracene	ND	13	ug/kg	6.4
Fluoranthene	**720**	**13**	**ug/kg**	**6.4**
Fluorene	ND	13	ug/kg	6.4
Indeno(1,2,3-cd)pyrene	**460**	**13**	**ug/kg**	**6.4**
1-Methylnaphthalene	ND	13	ug/kg	6.4
2-Methylnaphthalene	**14**	**13**	**ug/kg**	**6.4**
Naphthalene	ND	13	ug/kg	6.4
Phenanthrene	**180**	**13**	**ug/kg**	**6.4**
Pyrene	**540**	**13**	**ug/kg**	**6.4**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	49	(24 - 112)
2-Fluorobiphenyl	51	(34 - 110)
Terphenyl-d14	62	(41 - 119)
Phenol-d5	59	(28 - 110)
2-Fluorophenol	61	(26 - 110)
2,4,6-Tribromophenol	47	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD01-SSA-0411

General Chemistry

Lot-Sample #...: A1D080647-005 **Work Order #...:** MGR30 **Matrix.....:** SO
Date Sampled...: 04/07/11 14:03 **Date Received..:** 04/08/11
% Moisture.....: 48

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**51.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD03-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-006 **Work Order #...:** MGR311AC **Matrix.....:** SO
Date Sampled...: 04/07/11 14:38 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 30 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**19 J,B**	**29**	**ug/kg**	**9.0**
Benzene	ND	7.2	ug/kg	0.33
Bromodichloromethane	ND	7.2	ug/kg	0.40
Bromoform	ND	7.2	ug/kg	0.47
Bromomethane	ND	14	ug/kg	0.77
2-Butanone	**3.3 J**	**29**	**ug/kg**	**2.0**
Carbon disulfide	ND	7.2	ug/kg	0.63
Carbon tetrachloride	ND	7.2	ug/kg	0.53
Chlorobenzene	ND	7.2	ug/kg	0.47
Dibromochloromethane	ND	7.2	ug/kg	0.79
Chloroethane	ND	14	ug/kg	1.2
Chloroform	ND	7.2	ug/kg	0.42
Chloromethane	ND	14	ug/kg	0.59
1,2-Dibromo-3-chloro-propane	ND	14	ug/kg	1.9
1,2-Dibromoethane	ND	7.2	ug/kg	0.72
1,2-Dichlorobenzene	ND	7.2	ug/kg	0.52
1,3-Dichlorobenzene	ND	7.2	ug/kg	0.50
1,4-Dichlorobenzene	ND	7.2	ug/kg	0.95
Dichlorodifluoromethane	ND	14	ug/kg	0.72
1,1-Dichloroethane	ND	7.2	ug/kg	0.52
1,2-Dichloroethane	ND	7.2	ug/kg	0.49
cis-1,2-Dichloroethene	ND	3.6	ug/kg	0.52
trans-1,2-Dichloroethene	ND	3.6	ug/kg	0.59
1,1-Dichloroethene	ND	7.2	ug/kg	0.75
1,2-Dichloropropane	ND	7.2	ug/kg	0.99
cis-1,3-Dichloropropene	ND	7.2	ug/kg	0.49
trans-1,3-Dichloropropene	ND	7.2	ug/kg	0.77
Ethylbenzene	ND	7.2	ug/kg	0.37
n-Hexane	ND	7.2	ug/kg	1.7
2-Hexanone	ND	29	ug/kg	0.90
Isopropylbenzene	ND	7.2	ug/kg	0.23
Methylene chloride	**7.2 B**	**7.2**	**ug/kg**	**0.96**
4-Methyl-2-pentanone	ND	29	ug/kg	0.77
Methyl tert-butyl ether (MTBE)	ND	29	ug/kg	0.62
Styrene	ND	7.2	ug/kg	0.21
1,1,2,2-Tetrachloroethane	ND	7.2	ug/kg	0.49

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Ohio Environmental Protection Agency

Client Sample ID: SD03-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-006 **Work Order #...:** MGR311AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	7.2	ug/kg	0.75
Toluene	ND	7.2	ug/kg	0.39
1,2,4-Trichloro-benzene	ND	7.2	ug/kg	0.39
1,1,1-Trichloroethane	ND	7.2	ug/kg	0.80
1,1,2-Trichloroethane	ND	7.2	ug/kg	0.56
Trichloroethene	ND	7.2	ug/kg	0.60
Trichlorofluoromethane	ND	14	ug/kg	0.49
Vinyl chloride	ND	2.9	ug/kg	0.56
Xylenes (total)	ND	7.2	ug/kg	0.96

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(30 - 122)
1,2-Dichloroethane-d4	100	(39 - 128)
Toluene-d8	84	(33 - 134)
4-Bromofluorobenzene	80	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD03-SSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-006 **Work Order #...:** MGR311AD **Matrix.....:** SO
Date Sampled...: 04/07/11 14:38 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 4
% Moisture.....: 30 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**200**	**38**	**ug/kg**	**19**
Acenaphthylene	ND	38	ug/kg	19
Anthracene	**300**	**38**	**ug/kg**	**19**
Benzo(a)anthracene	**1400**	**38**	**ug/kg**	**19**
Benzo(a)pyrene	**1500**	**38**	**ug/kg**	**19**
Benzo(b)fluoranthene	**2500**	**38**	**ug/kg**	**19**
Benzo(ghi)perylene	**1100**	**38**	**ug/kg**	**19**
Benzo(k)fluoranthene	**960**	**38**	**ug/kg**	**19**
Chrysene	**1800**	**38**	**ug/kg**	**6.3**
Dibenz(a,h)anthracene	ND	38	ug/kg	19
Fluoranthene	**3900**	**38**	**ug/kg**	**19**
Fluorene	**180**	**38**	**ug/kg**	**19**
Indeno(1,2,3-cd)pyrene	**950**	**38**	**ug/kg**	**19**
1-Methylnaphthalene	ND	38	ug/kg	19
2-Methylnaphthalene	ND	38	ug/kg	19
Naphthalene	**54**	**38**	**ug/kg**	**19**
Phenanthrene	**1700**	**38**	**ug/kg**	**19**
Pyrene	**2800**	**38**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	42 DIL	(24 - 112)
2-Fluorobiphenyl	52 DIL	(34 - 110)
Terphenyl-d14	64 DIL	(41 - 119)
Phenol-d5	48 DIL	(28 - 110)
2-Fluorophenol	55 DIL	(26 - 110)
2,4,6-Tribromophenol	57 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD03-SSA-0411

General Chemistry

Lot-Sample #...: A1D080647-006 **Work Order #...:** MGR31 **Matrix.....:** SO
Date Sampled...: 04/07/11 14:38 **Date Received..:** 04/08/11
% Moisture.....: 30

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**69.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-007 **Work Order #...:** MGR321AC **Matrix.....:** SO
Date Sampled...: 04/06/11 15:15 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**18 J,B**	**25**	**ug/kg**	**7.8**
Benzene	ND	6.2	ug/kg	0.29
Bromodichloromethane	ND	6.2	ug/kg	0.35
Bromoform	ND	6.2	ug/kg	0.41
Bromomethane	ND	12	ug/kg	0.67
2-Butanone	ND	25	ug/kg	1.7
Carbon disulfide	ND	6.2	ug/kg	0.55
Carbon tetrachloride	ND	6.2	ug/kg	0.46
Chlorobenzene	ND	6.2	ug/kg	0.41
Dibromochloromethane	ND	6.2	ug/kg	0.69
Chloroethane	ND	12	ug/kg	1.1
Chloroform	ND	6.2	ug/kg	0.36
Chloromethane	ND	12	ug/kg	0.51
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.6
1,2-Dibromoethane	ND	6.2	ug/kg	0.62
1,2-Dichlorobenzene	ND	6.2	ug/kg	0.45
1,3-Dichlorobenzene	ND	6.2	ug/kg	0.44
1,4-Dichlorobenzene	ND	6.2	ug/kg	0.82
Dichlorodifluoromethane	ND	12	ug/kg	0.62
1,1-Dichloroethane	ND	6.2	ug/kg	0.45
1,2-Dichloroethane	ND	6.2	ug/kg	0.42
cis-1,2-Dichloroethene	ND	3.1	ug/kg	0.45
trans-1,2-Dichloroethene	ND	3.1	ug/kg	0.51
1,1-Dichloroethene	ND	6.2	ug/kg	0.65
1,2-Dichloropropane	ND	6.2	ug/kg	0.86
cis-1,3-Dichloropropene	ND	6.2	ug/kg	0.42
trans-1,3-Dichloropropene	ND	6.2	ug/kg	0.67
Ethylbenzene	ND	6.2	ug/kg	0.32
n-Hexane	ND	6.2	ug/kg	1.5
2-Hexanone	ND	25	ug/kg	0.78
Isopropylbenzene	ND	6.2	ug/kg	0.20
Methylene chloride	**9.5 B**	**6.2**	**ug/kg**	**0.83**
4-Methyl-2-pentanone	ND	25	ug/kg	0.67
Methyl tert-butyl ether (MTBE)	ND	25	ug/kg	0.54
Styrene	ND	6.2	ug/kg	0.19
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	0.42

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Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-007 **Work Order #...:** MGR321AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.2	ug/kg	0.65
Toluene	ND	6.2	ug/kg	0.34
1,2,4-Trichloro-benzene	ND	6.2	ug/kg	0.34
1,1,1-Trichloroethane	ND	6.2	ug/kg	0.70
1,1,2-Trichloroethane	ND	6.2	ug/kg	0.49
Trichloroethene	ND	6.2	ug/kg	0.52
Trichlorofluoromethane	ND	12	ug/kg	0.42
Vinyl chloride	ND	2.5	ug/kg	0.49
Xylenes (total)	ND	6.2	ug/kg	0.83

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	89	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-007 **Work Order #...:** MGR321AN **Matrix.....:** SO
Date Sampled...: 04/06/11 15:15 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.3	ug/kg	4.1
Acenaphthylene	ND	8.3	ug/kg	4.1
Anthracene	ND	8.3	ug/kg	4.1
Benzo(a)anthracene	ND	8.3	ug/kg	4.1
Benzo(a)pyrene	ND	8.3	ug/kg	4.1
Benzo(b)fluoranthene	ND	8.3	ug/kg	4.1
Benzo(ghi)perylene	ND	8.3	ug/kg	4.1
Benzo(k)fluoranthene	ND	8.3	ug/kg	4.1
Chrysene	ND	8.3	ug/kg	1.4
Dibenz(a,h)anthracene	ND	8.3	ug/kg	4.1
Fluoranthene	ND	8.3	ug/kg	4.1
Fluorene	ND	8.3	ug/kg	4.1
Indeno(1,2,3-cd)pyrene	ND	8.3	ug/kg	4.1
1-Methylnaphthalene	ND	8.3	ug/kg	4.1
2-Methylnaphthalene	ND	8.3	ug/kg	4.1
Naphthalene	ND	8.3	ug/kg	4.1
Phenanthrene	ND	8.3	ug/kg	4.1
Pyrene	ND	8.3	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	45	(24 - 112)
2-Fluorobiphenyl	48	(34 - 110)
Terphenyl-d14	60	(41 - 119)
Phenol-d5	48	(28 - 110)
2-Fluorophenol	57	(26 - 110)
2,4,6-Tribromophenol	39	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-007 **Work Order #...:** MGR321AM **Matrix.....:** SO
Date Sampled...: 04/06/11 15:15 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	41	ug/kg	26
Aroclor 1221	ND	41	ug/kg	20
Aroclor 1232	ND	41	ug/kg	17
Aroclor 1242	ND	41	ug/kg	16
Aroclor 1248	ND	41	ug/kg	21
Aroclor 1254	ND	41	ug/kg	21
Aroclor 1260	ND	41	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(10 - 196)
Decachlorobiphenyl	73	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

TOTAL Metals

Lot-Sample #...: A1D080647-007 **Matrix.....:** SO
Date Sampled...: 04/06/11 15:15 **Date Received..:** 04/08/11
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**12.6**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR321AE**
		Dilution Factor: 0.98		MDL.....: 0.37		
Lead	**11.4**	**0.37**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR321AF**
		Dilution Factor: 0.98		MDL.....: 0.23		
Barium	**64.6 J**	**24.4**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR321AH**
		Dilution Factor: 0.98		MDL.....: 0.087		
Selenium	ND	0.61	mg/kg	SW846 6010B	04/12-04/18/11	MGR321AG
		Dilution Factor: 0.98		MDL.....: 0.55		
Cadmium	ND	0.61	mg/kg	SW846 6010B	04/12-04/18/11	MGR321AJ
		Dilution Factor: 0.98		MDL.....: 0.044		
Chromium	**10.5**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR321AK**
		Dilution Factor: 0.98		MDL.....: 0.24		
Silver	ND	1.2	mg/kg	SW846 6010B	04/12-04/18/11	MGR321AL
		Dilution Factor: 0.98		MDL.....: 0.12		
Mercury	**0.030 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/12-04/13/11**	**MGR321AD**
		Dilution Factor: 0.91		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB54-LAN-5-0411

General Chemistry

Lot-Sample #...: A1D080647-007 **Work Order #...:** MGR32 **Matrix.....:** SO
Date Sampled...: 04/06/11 15:15 **Date Received..:** 04/08/11
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**80.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-008 **Work Order #...:** MGR331AC **Matrix.....:** SO
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**23 J,B**	**24**	**ug/kg**	**7.4**
Benzene	ND	5.9	ug/kg	0.27
Bromodichloromethane	ND	5.9	ug/kg	0.33
Bromoform	ND	5.9	ug/kg	0.39
Bromomethane	ND	12	ug/kg	0.64
2-Butanone	ND	24	ug/kg	1.7
Carbon disulfide	ND	5.9	ug/kg	0.52
Carbon tetrachloride	ND	5.9	ug/kg	0.44
Chlorobenzene	ND	5.9	ug/kg	0.39
Dibromochloromethane	ND	5.9	ug/kg	0.65
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.9	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.5
1,2-Dibromoethane	ND	5.9	ug/kg	0.59
1,2-Dichlorobenzene	ND	5.9	ug/kg	0.42
1,3-Dichlorobenzene	ND	5.9	ug/kg	0.41
1,4-Dichlorobenzene	ND	5.9	ug/kg	0.78
Dichlorodifluoromethane	ND	12	ug/kg	0.59
1,1-Dichloroethane	ND	5.9	ug/kg	0.42
1,2-Dichloroethane	ND	5.9	ug/kg	0.40
cis-1,2-Dichloroethene	ND	3.0	ug/kg	0.42
trans-1,2-Dichloroethene	ND	3.0	ug/kg	0.48
1,1-Dichloroethene	ND	5.9	ug/kg	0.61
1,2-Dichloropropane	ND	5.9	ug/kg	0.81
cis-1,3-Dichloropropene	ND	5.9	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.9	ug/kg	0.64
Ethylbenzene	ND	5.9	ug/kg	0.31
n-Hexane	ND	5.9	ug/kg	1.4
2-Hexanone	ND	24	ug/kg	0.74
Isopropylbenzene	ND	5.9	ug/kg	0.19
Methylene chloride	**5.8 J,B**	**5.9**	**ug/kg**	**0.79**
4-Methyl-2-pentanone	ND	24	ug/kg	0.64
Methyl tert-butyl ether (MTBE)	ND	24	ug/kg	0.51
Styrene	ND	5.9	ug/kg	0.18
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	0.40

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Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-008 **Work Order #...:** MGR331AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.9	ug/kg	0.61
Toluene	ND	5.9	ug/kg	0.32
1,2,4-Trichloro-benzene	ND	5.9	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.9	ug/kg	0.66
1,1,2-Trichloroethane	ND	5.9	ug/kg	0.46
Trichloroethene	ND	5.9	ug/kg	0.50
Trichlorofluoromethane	ND	12	ug/kg	0.40
Vinyl chloride	ND	2.4	ug/kg	0.46
Xylenes (total)	ND	5.9	ug/kg	0.79

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	81	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-008 **Work Order #...:** MGR331AN **Matrix.....:** SO
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.9	ug/kg	3.9
Acenaphthylene	ND	7.9	ug/kg	3.9
Anthracene	ND	7.9	ug/kg	3.9
Benzo(a)anthracene	ND	7.9	ug/kg	3.9
Benzo(a)pyrene	ND	7.9	ug/kg	3.9
Benzo(b)fluoranthene	ND	7.9	ug/kg	3.9
Benzo(ghi)perylene	ND	7.9	ug/kg	3.9
Benzo(k)fluoranthene	ND	7.9	ug/kg	3.9
Chrysene	ND	7.9	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.9	ug/kg	3.9
Fluoranthene	ND	7.9	ug/kg	3.9
Fluorene	ND	7.9	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	7.9	ug/kg	3.9
1-Methylnaphthalene	ND	7.9	ug/kg	3.9
2-Methylnaphthalene	ND	7.9	ug/kg	3.9
Naphthalene	ND	7.9	ug/kg	3.9
Phenanthrene	ND	7.9	ug/kg	3.9
Pyrene	ND	7.9	ug/kg	3.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	40	(24 - 112)
2-Fluorobiphenyl	43	(34 - 110)
Terphenyl-d14	57	(41 - 119)
Phenol-d5	45	(28 - 110)
2-Fluorophenol	52	(26 - 110)
2,4,6-Tribromophenol	42	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-008 **Work Order #...:** MGR331AM **Matrix.....:** SO
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	55	(10 - 196)
Decachlorobiphenyl	56	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

TOTAL Metals

Lot-Sample #...: A1D080647-008 **Matrix.....:** SO
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**11.2**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR331AE**
		Dilution Factor: 0.99		MDL.....: 0.35		
Lead	**7.6**	**0.35**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR331AF**
		Dilution Factor: 0.99		MDL.....: 0.22		
Barium	**23.9 J**	**23.4**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR331AH**
		Dilution Factor: 0.99		MDL.....: 0.083		
Selenium	ND	0.58	mg/kg	SW846 6010B	04/12-04/18/11	MGR331AG
		Dilution Factor: 0.99		MDL.....: 0.53		
Cadmium	ND	0.58	mg/kg	SW846 6010B	04/12-04/18/11	MGR331AJ
		Dilution Factor: 0.99		MDL.....: 0.042		
Chromium	**4.7**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR331AK**
		Dilution Factor: 0.99		MDL.....: 0.23		
Silver	ND	1.2	mg/kg	SW846 6010B	04/12-04/18/11	MGR331AL
		Dilution Factor: 0.99		MDL.....: 0.12		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/12-04/13/11	MGR331AD
		Dilution Factor: 0.91		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB52-LAN-28-0411

General Chemistry

Lot-Sample #...: A1D080647-008 **Work Order #...:** MGR33 **Matrix.....:** SO
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR341AC **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**23 B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.38
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	**2.1 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	**1.1 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.38
Dibromochloromethane	ND	5.7	ug/kg	0.63
Chloroethane	ND	11	ug/kg	0.98
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.59
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.62
Ethylbenzene	ND	5.7	ug/kg	0.30
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**4.6 J,B**	**5.7**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
Tetrachloroethene	ND	5.7	ug/kg	0.59
Toluene	ND	5.7	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.45
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR341AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.7	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	82	(33 - 134)
4-Bromofluorobenzene	74	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR342AC **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109159
Dilution Factor: 0.99
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	570	ug/kg	68
1,2-Dichlorobenzene	ND	280	ug/kg	19
1,3-Dichlorobenzene	ND	280	ug/kg	8.2
1,4-Dichlorobenzene	ND	280	ug/kg	8.9
1,1,2,2-Tetrachloroethane	ND	280	ug/kg	9.3
1,2,4-Trichloro-benzene	ND	280	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(30 - 122)
1,2-Dichloroethane-d4	76	(39 - 128)
Toluene-d8	74	(33 - 134)
4-Bromofluorobenzene	77	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR341AN **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.6	ug/kg	3.8
Acenaphthylene	ND	7.6	ug/kg	3.8
Anthracene	ND	7.6	ug/kg	3.8
Benzo(a)anthracene	ND	7.6	ug/kg	3.8
Benzo(a)pyrene	ND	7.6	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.6	ug/kg	3.8
Benzo(ghi)perylene	**19**	**7.6**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	ND	7.6	ug/kg	3.8
Chrysene	**13**	**7.6**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.6	ug/kg	3.8
Fluoranthene	ND	7.6	ug/kg	3.8
Fluorene	ND	7.6	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.6	ug/kg	3.8
1-Methylnaphthalene	**61**	**7.6**	**ug/kg**	**3.8**
2-Methylnaphthalene	**74**	**7.6**	**ug/kg**	**3.8**
Naphthalene	ND	7.6	ug/kg	3.8
Phenanthrene	**45**	**7.6**	**ug/kg**	**3.8**
Pyrene	ND	7.6	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47	(24 - 112)
2-Fluorobiphenyl	52	(34 - 110)
Terphenyl-d14	62	(41 - 119)
Phenol-d5	56	(28 - 110)
2-Fluorophenol	59	(26 - 110)
2,4,6-Tribromophenol	33	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR341AM **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	74	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

TOTAL Metals

Lot-Sample #...: A1D080647-009 **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**17.7**	**0.92**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR341AE**
		Dilution Factor: 0.8		MDL.....: 0.27		
Lead	**11.2**	**0.27**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR341AF**
		Dilution Factor: 0.8		MDL.....: 0.17		
Barium	**47.8 J**	**18.3**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR341AH**
		Dilution Factor: 0.8		MDL.....: 0.065		
Selenium	ND	0.46	mg/kg	SW846 6010B	04/12-04/18/11	MGR341AG
		Dilution Factor: 0.8		MDL.....: 0.41		
Cadmium	**0.35 B**	**0.46**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR341AJ**
		Dilution Factor: 0.8		MDL.....: 0.033		
Chromium	**9.8**	**0.92**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR341AK**
		Dilution Factor: 0.8		MDL.....: 0.18		
Silver	ND	0.92	mg/kg	SW846 6010B	04/12-04/18/11	MGR341AL
		Dilution Factor: 0.8		MDL.....: 0.092		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/12-04/13/11	MGR341AD
		Dilution Factor: 0.95		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB53-LAN-22-0411

General Chemistry

Lot-Sample #...: A1D080647-009 **Work Order #...:** MGR34 **Matrix.....:** SO
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR351AC **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**23 J,B**	**24**	**ug/kg**	**7.6**
Benzene	ND	6.0	ug/kg	0.28
Bromodichloromethane	ND	6.0	ug/kg	0.34
Bromoform	ND	6.0	ug/kg	0.40
Bromomethane	ND	12	ug/kg	0.65
2-Butanone	ND	24	ug/kg	1.7
Carbon disulfide	**1.1 J**	**6.0**	**ug/kg**	**0.53**
Carbon tetrachloride	ND	6.0	ug/kg	0.45
Chlorobenzene	ND	6.0	ug/kg	0.40
Dibromochloromethane	ND	6.0	ug/kg	0.66
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	6.0	ug/kg	0.35
Chloromethane	ND	12	ug/kg	0.49
1,2-Dibromoethane	ND	6.0	ug/kg	0.60
Dichlorodifluoromethane	ND	12	ug/kg	0.60
1,1-Dichloroethane	ND	6.0	ug/kg	0.43
1,2-Dichloroethane	ND	6.0	ug/kg	0.41
cis-1,2-Dichloroethene	ND	3.0	ug/kg	0.43
trans-1,2-Dichloroethene	ND	3.0	ug/kg	0.49
1,1-Dichloroethene	ND	6.0	ug/kg	0.63
1,2-Dichloropropane	ND	6.0	ug/kg	0.83
cis-1,3-Dichloropropene	ND	6.0	ug/kg	0.41
trans-1,3-Dichloropropene	ND	6.0	ug/kg	0.65
Ethylbenzene	ND	6.0	ug/kg	0.31
n-Hexane	ND	6.0	ug/kg	1.4
2-Hexanone	ND	24	ug/kg	0.76
Isopropylbenzene	ND	6.0	ug/kg	0.19
Methylene chloride	**5.5 J,B**	**6.0**	**ug/kg**	**0.81**
4-Methyl-2-pentanone	ND	24	ug/kg	0.65
Methyl tert-butyl ether (MTBE)	ND	24	ug/kg	0.52
Styrene	ND	6.0	ug/kg	0.18
Tetrachloroethene	ND	6.0	ug/kg	0.63
Toluene	ND	6.0	ug/kg	0.33
1,1,1-Trichloroethane	ND	6.0	ug/kg	0.67
1,1,2-Trichloroethane	ND	6.0	ug/kg	0.47
Trichloroethene	ND	6.0	ug/kg	0.51
Trichlorofluoromethane	ND	12	ug/kg	0.41

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Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR351AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.4	ug/kg	0.47
Xylenes (total)	ND	6.0	ug/kg	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	81	(33 - 134)
4-Bromofluorobenzene	67	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR352AC **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109159
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	600	ug/kg	72
1,2-Dichlorobenzene	ND	300	ug/kg	20
1,3-Dichlorobenzene	ND	300	ug/kg	8.7
1,4-Dichlorobenzene	ND	300	ug/kg	9.5
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	9.9
1,2,4-Trichloro-benzene	ND	300	ug/kg	14

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(30 - 122)
1,2-Dichloroethane-d4	77	(39 - 128)
Toluene-d8	75	(33 - 134)
4-Bromofluorobenzene	79	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR351AN **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.0	ug/kg	4.0
Acenaphthylene	ND	8.0	ug/kg	4.0
Anthracene	ND	8.0	ug/kg	4.0
Benzo(a)anthracene	ND	8.0	ug/kg	4.0
Benzo(a)pyrene	ND	8.0	ug/kg	4.0
Benzo(b)fluoranthene	ND	8.0	ug/kg	4.0
Benzo(ghi)perylene	ND	8.0	ug/kg	4.0
Benzo(k)fluoranthene	ND	8.0	ug/kg	4.0
Chrysene	ND	8.0	ug/kg	1.3
Dibenz(a,h)anthracene	ND	8.0	ug/kg	4.0
Fluoranthene	ND	8.0	ug/kg	4.0
Fluorene	ND	8.0	ug/kg	4.0
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/kg	4.0
1-Methylnaphthalene	**28**	**8.0**	**ug/kg**	**4.0**
2-Methylnaphthalene	**31**	**8.0**	**ug/kg**	**4.0**
Naphthalene	ND	8.0	ug/kg	4.0
Phenanthrene	**35**	**8.0**	**ug/kg**	**4.0**
Pyrene	ND	8.0	ug/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	42	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
Terphenyl-d14	62	(41 - 119)
Phenol-d5	53	(28 - 110)
2-Fluorophenol	59	(26 - 110)
2,4,6-Tribromophenol	38	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR351AM **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	20
Aroclor 1254	ND	40	ug/kg	20
Aroclor 1260	ND	40	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	58	(10 - 196)
Decachlorobiphenyl	66	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

TOTAL Metals

Lot-Sample #...: A1D080647-010 **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**13.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR351AE**
		Dilution Factor: 0.95		MDL.....: 0.34		
Lead	**10.5**	**0.34**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR351AF**
		Dilution Factor: 0.95		MDL.....: 0.22		
Barium	**55.7 J**	**22.9**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR351AH**
		Dilution Factor: 0.95		MDL.....: 0.081		
Selenium	ND	0.57	mg/kg	SW846 6010B	04/12-04/18/11	MGR351AG
		Dilution Factor: 0.95		MDL.....: 0.52		
Cadmium	ND	0.57	mg/kg	SW846 6010B	04/12-04/18/11	MGR351AJ
		Dilution Factor: 0.95		MDL.....: 0.041		
Chromium	**10.8**	**1.1**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR351AK**
		Dilution Factor: 0.95		MDL.....: 0.23		
Silver	ND	1.1	mg/kg	SW846 6010B	04/12-04/18/11	MGR351AL
		Dilution Factor: 0.95		MDL.....: 0.11		
Mercury	ND	0.069	mg/kg	SW846 7471A	04/12-04/13/11	MGR351AD
		Dilution Factor: 0.57		MDL.....: 0.010		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB51-LAN-25-0411

General Chemistry

Lot-Sample #...: A1D080647-010 **Work Order #...:** MGR35 **Matrix.....:** SO
Date Sampled...: 04/06/11 10:58 **Date Received..:** 04/08/11
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-011 **Work Order #...:** MGR361AC **Matrix.....:** SO
Date Sampled...: 04/07/11 09:31 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**29 B**	**24**	**ug/kg**	**7.5**
Benzene	ND	6.0	ug/kg	0.28
Bromodichloromethane	ND	6.0	ug/kg	0.34
Bromoform	ND	6.0	ug/kg	0.40
Bromomethane	ND	12	ug/kg	0.65
2-Butanone	ND	24	ug/kg	1.7
Carbon disulfide	ND	6.0	ug/kg	0.53
Carbon tetrachloride	ND	6.0	ug/kg	0.44
Chlorobenzene	ND	6.0	ug/kg	0.40
Dibromochloromethane	ND	6.0	ug/kg	0.66
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	6.0	ug/kg	0.35
Chloromethane	ND	12	ug/kg	0.49
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.6
1,2-Dibromoethane	ND	6.0	ug/kg	0.60
1,2-Dichlorobenzene	ND	6.0	ug/kg	0.43
1,3-Dichlorobenzene	ND	6.0	ug/kg	0.42
1,4-Dichlorobenzene	ND	6.0	ug/kg	0.79
Dichlorodifluoromethane	ND	12	ug/kg	0.60
1,1-Dichloroethane	ND	6.0	ug/kg	0.43
1,2-Dichloroethane	**0.48 J**	**6.0**	**ug/kg**	**0.41**
cis-1,2-Dichloroethene	ND	3.0	ug/kg	0.43
trans-1,2-Dichloroethene	ND	3.0	ug/kg	0.49
1,1-Dichloroethene	ND	6.0	ug/kg	0.62
1,2-Dichloropropane	ND	6.0	ug/kg	0.83
cis-1,3-Dichloropropene	ND	6.0	ug/kg	0.41
trans-1,3-Dichloropropene	ND	6.0	ug/kg	0.65
Ethylbenzene	ND	6.0	ug/kg	0.31
n-Hexane	ND	6.0	ug/kg	1.4
2-Hexanone	ND	24	ug/kg	0.75
Isopropylbenzene	ND	6.0	ug/kg	0.19
Methylene chloride	**9.8 B**	**6.0**	**ug/kg**	**0.80**
4-Methyl-2-pentanone	ND	24	ug/kg	0.65
Methyl tert-butyl ether (MTBE)	ND	24	ug/kg	0.52
Styrene	ND	6.0	ug/kg	0.18
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	0.41

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Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-011 **Work Order #...:** MGR361AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.0	ug/kg	0.62
Toluene	ND	6.0	ug/kg	0.32
1,2,4-Trichloro-benzene	ND	6.0	ug/kg	0.32
1,1,1-Trichloroethane	ND	6.0	ug/kg	0.67
1,1,2-Trichloroethane	ND	6.0	ug/kg	0.47
Trichloroethene	ND	6.0	ug/kg	0.50
Trichlorofluoromethane	ND	12	ug/kg	0.41
Vinyl chloride	ND	2.4	ug/kg	0.47
Xylenes (total)	ND	6.0	ug/kg	0.80

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	81	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	86	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-011 **Work Order #...:** MGR361AN **Matrix.....:** SO
Date Sampled...: 04/07/11 09:31 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.0	ug/kg	4.0
Acenaphthylene	ND	8.0	ug/kg	4.0
Anthracene	ND	8.0	ug/kg	4.0
Benzo(a)anthracene	ND	8.0	ug/kg	4.0
Benzo(a)pyrene	ND	8.0	ug/kg	4.0
Benzo(b)fluoranthene	**36**	**8.0**	**ug/kg**	**4.0**
Benzo(ghi)perylene	ND	8.0	ug/kg	4.0
Benzo(k)fluoranthene	ND	8.0	ug/kg	4.0
Chrysene	**13**	**8.0**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	8.0	ug/kg	4.0
Fluoranthene	**18**	**8.0**	**ug/kg**	**4.0**
Fluorene	ND	8.0	ug/kg	4.0
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/kg	4.0
1-Methylnaphthalene	ND	8.0	ug/kg	4.0
2-Methylnaphthalene	ND	8.0	ug/kg	4.0
Naphthalene	ND	8.0	ug/kg	4.0
Phenanthrene	ND	8.0	ug/kg	4.0
Pyrene	**15**	**8.0**	**ug/kg**	**4.0**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(24 - 112)
2-Fluorobiphenyl	47	(34 - 110)
Terphenyl-d14	59	(41 - 119)
Phenol-d5	50	(28 - 110)
2-Fluorophenol	55	(26 - 110)
2,4,6-Tribromophenol	47	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-011 **Work Order #...:** MGR361AM **Matrix.....:** SO
Date Sampled...: 04/07/11 09:31 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	**24 J**	**40**	**ug/kg**	**16**
Aroclor 1248	ND	40	ug/kg	20
Aroclor 1254	ND	40	ug/kg	20
Aroclor 1260	ND	40	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(10 - 196)
Decachlorobiphenyl	64	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

TOTAL Metals

Lot-Sample #...: A1D080647-011 **Matrix.....:** SO
Date Sampled...: 04/07/11 09:31 **Date Received..:** 04/08/11
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**17.6**	**0.99**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR361AE**
		Dilution Factor: 0.83		MDL.....: 0.30		
Lead	**15.5**	**0.30**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR361AF**
		Dilution Factor: 0.83		MDL.....: 0.19		
Barium	**54.8 J**	**19.9**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR361AH**
		Dilution Factor: 0.83		MDL.....: 0.071		
Selenium	ND	0.50	mg/kg	SW846 6010B	04/12-04/18/11	MGR361AG
		Dilution Factor: 0.83		MDL.....: 0.45		
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/12-04/18/11	MGR361AJ
		Dilution Factor: 0.83		MDL.....: 0.036		
Chromium	**10.9**	**0.99**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR361AK**
		Dilution Factor: 0.83		MDL.....: 0.20		
Silver	ND	0.99	mg/kg	SW846 6010B	04/12-04/18/11	MGR361AL
		Dilution Factor: 0.83		MDL.....: 0.099		
Mercury	ND	0.12	mg/kg	SW846 7471A	04/12-04/13/11	MGR361AD
		Dilution Factor: 1		MDL.....: 0.018		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-5-0411

General Chemistry

Lot-Sample #...: A1D080647-011 **Work Order #...:** MGR36 **Matrix.....:** SO
Date Sampled...: 04/07/11 09:31 **Date Received..:** 04/08/11
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR371AC **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**43 B**	**22**	**ug/kg**	**7.0**
Benzene	**0.32 J**	**5.6**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromoform	ND	5.6	ug/kg	0.37
Bromomethane	ND	11	ug/kg	0.60
2-Butanone	**3.3 J**	**22**	**ug/kg**	**1.6**
Carbon disulfide	**2.1 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.41
Chlorobenzene	ND	5.6	ug/kg	0.37
Dibromochloromethane	ND	5.6	ug/kg	0.61
Chloroethane	ND	11	ug/kg	0.96
Chloroform	ND	5.6	ug/kg	0.32
Chloromethane	ND	11	ug/kg	0.46
1,2-Dibromoethane	ND	5.6	ug/kg	0.56
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	**0.67 J**	**5.6**	**ug/kg**	**0.38**
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.77
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.60
Ethylbenzene	ND	5.6	ug/kg	0.29
n-Hexane	ND	5.6	ug/kg	1.3
2-Hexanone	ND	22	ug/kg	0.70
Isopropylbenzene	ND	5.6	ug/kg	0.18
Methylene chloride	**46 B**	**5.6**	**ug/kg**	**0.75**
4-Methyl-2-pentanone	ND	22	ug/kg	0.60
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
Styrene	ND	5.6	ug/kg	0.17
Tetrachloroethene	ND	5.6	ug/kg	0.58
Toluene	**0.35 J**	**5.6**	**ug/kg**	**0.30**
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.62
1,1,2-Trichloroethane	ND	5.6	ug/kg	0.43
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38

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Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR371AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.2	ug/kg	0.43
Xylenes (total)	ND	5.6	ug/kg	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(30 - 122)
1,2-Dichloroethane-d4	107	(39 - 128)
Toluene-d8	83	(33 - 134)
4-Bromofluorobenzene	75	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR372AC **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 10
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	14
1,2-Dichlorobenzene	ND	56	ug/kg	4.0
1,3-Dichlorobenzene	ND	56	ug/kg	3.9
1,4-Dichlorobenzene	ND	56	ug/kg	7.4
1,1,2,2-Tetrachloroethane	ND	56	ug/kg	3.8
1,2,4-Trichloro-benzene	ND	56	ug/kg	3.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	96	(39 - 128)
Toluene-d8	85	(33 - 134)
4-Bromofluorobenzene	84	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR371AN **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.4	ug/kg	3.7
Acenaphthylene	ND	7.4	ug/kg	3.7
Anthracene	ND	7.4	ug/kg	3.7
Benzo(a)anthracene	ND	7.4	ug/kg	3.7
Benzo(a)pyrene	ND	7.4	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.4	ug/kg	3.7
Benzo(ghi)perylene	**18**	**7.4**	**ug/kg**	**3.7**
Benzo(k)fluoranthene	ND	7.4	ug/kg	3.7
Chrysene	**16**	**7.4**	**ug/kg**	**1.2**
Dibenz(a,h)anthracene	ND	7.4	ug/kg	3.7
Fluoranthene	ND	7.4	ug/kg	3.7
Fluorene	ND	7.4	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.4	ug/kg	3.7
1-Methylnaphthalene	**41**	**7.4**	**ug/kg**	**3.7**
2-Methylnaphthalene	**39**	**7.4**	**ug/kg**	**3.7**
Naphthalene	ND	7.4	ug/kg	3.7
Phenanthrene	**36**	**7.4**	**ug/kg**	**3.7**
Pyrene	ND	7.4	ug/kg	3.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
Terphenyl-d14	59	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	56	(26 - 110)
2,4,6-Tribromophenol	39	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR371AM **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	23
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	14
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	62	(10 - 196)
Decachlorobiphenyl	73	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

TOTAL Metals

Lot-Sample #...: A1D080647-012 **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**15.4**	**1.1**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR371AE**
		Dilution Factor: 0.98		MDL.....: 0.33		
Lead	**11.3**	**0.33**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR371AF**
		Dilution Factor: 0.98		MDL.....: 0.21		
Barium	**46.8 J**	**21.8**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR371AH**
		Dilution Factor: 0.98		MDL.....: 0.078		
Selenium	**0.53 B**	**0.55**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR371AG**
		Dilution Factor: 0.98		MDL.....: 0.49		
Cadmium	ND	0.55	mg/kg	SW846 6010B	04/12-04/18/11	MGR371AJ
		Dilution Factor: 0.98		MDL.....: 0.039		
Chromium	**10.1**	**1.1**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR371AK**
		Dilution Factor: 0.98		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/12-04/18/11	MGR371AL
		Dilution Factor: 0.98		MDL.....: 0.11		
Mercury	**0.024 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/12-04/13/11**	**MGR371AD**
		Dilution Factor: 0.97		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB103-HAZ-10-0411

General Chemistry

Lot-Sample #...: A1D080647-012 **Work Order #...:** MGR37 **Matrix.....:** SO
Date Sampled...: 04/07/11 09:40 **Date Received..:** 04/08/11
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-013 **Work Order #...:** MGR381AC **Matrix.....:** SO
Date Sampled...: 04/07/11 11:12 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**36 B**	**24**	**ug/kg**	**7.6**
Benzene	ND	6.1	ug/kg	0.28
Bromodichloromethane	ND	6.1	ug/kg	0.34
Bromoform	ND	6.1	ug/kg	0.40
Bromomethane	ND	12	ug/kg	0.66
2-Butanone	**3.1 J**	**24**	**ug/kg**	**1.7**
Carbon disulfide	ND	6.1	ug/kg	0.53
Carbon tetrachloride	ND	6.1	ug/kg	0.45
Chlorobenzene	ND	6.1	ug/kg	0.40
Dibromochloromethane	ND	6.1	ug/kg	0.67
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	6.1	ug/kg	0.35
Chloromethane	ND	12	ug/kg	0.50
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.6
1,2-Dibromoethane	ND	6.1	ug/kg	0.61
1,2-Dichlorobenzene	ND	6.1	ug/kg	0.44
1,3-Dichlorobenzene	ND	6.1	ug/kg	0.42
1,4-Dichlorobenzene	ND	6.1	ug/kg	0.80
Dichlorodifluoromethane	ND	12	ug/kg	0.61
1,1-Dichloroethane	ND	6.1	ug/kg	0.44
1,2-Dichloroethane	**0.49 J**	**6.1**	**ug/kg**	**0.41**
cis-1,2-Dichloroethene	ND	3.0	ug/kg	0.44
trans-1,2-Dichloroethene	ND	3.0	ug/kg	0.50
1,1-Dichloroethene	ND	6.1	ug/kg	0.63
1,2-Dichloropropane	ND	6.1	ug/kg	0.84
cis-1,3-Dichloropropene	ND	6.1	ug/kg	0.41
trans-1,3-Dichloropropene	ND	6.1	ug/kg	0.66
Ethylbenzene	ND	6.1	ug/kg	0.32
n-Hexane	ND	6.1	ug/kg	1.5
2-Hexanone	ND	24	ug/kg	0.76
Isopropylbenzene	ND	6.1	ug/kg	0.19
Methylene chloride	**11 B**	**6.1**	**ug/kg**	**0.81**
4-Methyl-2-pentanone	ND	24	ug/kg	0.66
Methyl tert-butyl ether (MTBE)	ND	24	ug/kg	0.52
Styrene	ND	6.1	ug/kg	0.18
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	0.41

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Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-013 **Work Order #...:** MGR381AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.1	ug/kg	0.63
Toluene	ND	6.1	ug/kg	0.33
1,2,4-Trichloro-benzene	ND	6.1	ug/kg	0.33
1,1,1-Trichloroethane	ND	6.1	ug/kg	0.68
1,1,2-Trichloroethane	ND	6.1	ug/kg	0.47
Trichloroethene	ND	6.1	ug/kg	0.51
Trichlorofluoromethane	ND	12	ug/kg	0.41
Vinyl chloride	ND	2.4	ug/kg	0.47
Xylenes (total)	ND	6.1	ug/kg	0.81

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	87	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-013 **Work Order #...:** MGR381AN **Matrix.....:** SO
Date Sampled...: 04/07/11 11:12 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.1	ug/kg	4.0
Acenaphthylene	ND	8.1	ug/kg	4.0
Anthracene	ND	8.1	ug/kg	4.0
Benzo(a)anthracene	ND	8.1	ug/kg	4.0
Benzo(a)pyrene	ND	8.1	ug/kg	4.0
Benzo(b)fluoranthene	ND	8.1	ug/kg	4.0
Benzo(ghi)perylene	ND	8.1	ug/kg	4.0
Benzo(k)fluoranthene	ND	8.1	ug/kg	4.0
Chrysene	ND	8.1	ug/kg	1.3
Dibenz(a,h)anthracene	ND	8.1	ug/kg	4.0
Fluoranthene	ND	8.1	ug/kg	4.0
Fluorene	ND	8.1	ug/kg	4.0
Indeno(1,2,3-cd)pyrene	ND	8.1	ug/kg	4.0
1-Methylnaphthalene	ND	8.1	ug/kg	4.0
2-Methylnaphthalene	ND	8.1	ug/kg	4.0
Naphthalene	ND	8.1	ug/kg	4.0
Phenanthrene	ND	8.1	ug/kg	4.0
Pyrene	ND	8.1	ug/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	46	(24 - 112)
2-Fluorobiphenyl	51	(34 - 110)
Terphenyl-d14	66	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	62	(26 - 110)
2,4,6-Tribromophenol	36	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-013 **Work Order #...:** MGR381AM **Matrix.....:** SO
Date Sampled...: 04/07/11 11:12 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(10 - 196)
Decachlorobiphenyl	74	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

TOTAL Metals

Lot-Sample #...: A1D080647-013 **Matrix.....:** SO
Date Sampled...: 04/07/11 11:12 **Date Received..:** 04/08/11
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1102020						
Arsenic	**17.6**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR381AE**
		Dilution Factor: 0.96		MDL.....: 0.35		
Lead	**15.5**	**0.35**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR381AF**
		Dilution Factor: 0.96		MDL.....: 0.22		
Barium	**68.8 J**	**23.3**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR381AH**
		Dilution Factor: 0.96		MDL.....: 0.083		
Selenium	ND	0.58	mg/kg	SW846 6010B	04/12-04/18/11	MGR381AG
		Dilution Factor: 0.96		MDL.....: 0.52		
Cadmium	ND	0.58	mg/kg	SW846 6010B	04/12-04/18/11	MGR381AJ
		Dilution Factor: 0.96		MDL.....: 0.042		
Chromium	**13.6**	**1.2**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGR381AK**
		Dilution Factor: 0.96		MDL.....: 0.23		
Silver	ND	1.2	mg/kg	SW846 6010B	04/12-04/18/11	MGR381AL
		Dilution Factor: 0.96		MDL.....: 0.12		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/12-04/13/11	MGR381AD
		Dilution Factor: 0.94		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB104-HAZ-15-0411

General Chemistry

Lot-Sample #...: A1D080647-013 **Work Order #...:** MGR38 **Matrix.....:** SO
Date Sampled...: 04/07/11 11:12 **Date Received..:** 04/08/11
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR391AC **Matrix.....:** SO
Date Sampled...: 04/07/11 15:58 **Date Received..:** 04/08/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104386
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**29 B**	**22**	**ug/kg**	**7.1**
Benzene	ND	5.6	ug/kg	0.26
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromoform	ND	5.6	ug/kg	0.37
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	ND	22	ug/kg	1.6
Carbon disulfide	**0.75 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.42
Chlorobenzene	ND	5.6	ug/kg	0.37
Dibromochloromethane	ND	5.6	ug/kg	0.62
Chloroethane	ND	11	ug/kg	0.97
Chloroform	ND	5.6	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.46
1,2-Dibromo-3-chloro-propane	ND	11	ug/kg	1.5
1,2-Dibromoethane	ND	5.6	ug/kg	0.56
1,2-Dichlorobenzene	ND	5.6	ug/kg	0.40
1,3-Dichlorobenzene	ND	5.6	ug/kg	0.39
1,4-Dichlorobenzene	ND	5.6	ug/kg	0.74
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.61
Ethylbenzene	ND	5.6	ug/kg	0.29
n-Hexane	ND	5.6	ug/kg	1.3
2-Hexanone	ND	22	ug/kg	0.71
Isopropylbenzene	ND	5.6	ug/kg	0.18
Methylene chloride	**9.2 B**	**5.6**	**ug/kg**	**0.75**
4-Methyl-2-pentanone	ND	22	ug/kg	0.61
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
Styrene	ND	5.6	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.6	ug/kg	0.38

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Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

GC/MS Volatiles

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR391AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.6	ug/kg	0.58
Toluene	ND	5.6	ug/kg	0.30
1,2,4-Trichloro-benzene	ND	5.6	ug/kg	0.30
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.63
1,1,2-Trichloroethane	ND	5.6	ug/kg	0.44
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.2	ug/kg	0.44
Xylenes (total)	ND	5.6	ug/kg	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	109	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR391AD **Matrix.....:** SO
Date Sampled...: 04/07/11 15:58 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	ND	7.5	ug/kg	1.2
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**48**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**52**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**43**	**7.5**	**ug/kg**	**3.7**
Pyrene	ND	7.5	ug/kg	3.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	39	(24 - 112)
2-Fluorobiphenyl	48	(34 - 110)
Terphenyl-d14	58	(41 - 119)
Phenol-d5	52	(28 - 110)
2-Fluorophenol	56	(26 - 110)
2,4,6-Tribromophenol	32	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

GC Volatiles

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR391AE **Matrix.....:** SO
Date Sampled...: 04/07/11 15:58 **Date Received..:** 04/08/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1110133
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	82	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

GC Semivolatiles

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR391AF **Matrix.....:** SO
Date Sampled...: 04/07/11 15:58 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**210**	**19**	**mg/kg**	**10**
C10-C20	**170**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	42	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB21-FTF-20-0411

General Chemistry

Lot-Sample #...: A1D080647-014 **Work Order #...:** MGR39 **Matrix.....:** SO
Date Sampled...: 04/07/11 15:58 **Date Received..:** 04/08/11
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/12-04/13/11**	**1102313**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D080647-015 **Work Order #...:** MGR4A1AA **Matrix.....:** WQ
Date Sampled...: 04/07/11 17:21 **Date Received..:** 04/08/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1108284
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**2.9**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	**0.58 J**	**1.0**	**ug/L**	**0.18**
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**8.1**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D080647-015 **Work Order #...:** MGR4A1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.92 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(75 - 121)
1,2-Dichloroethane-d4	101	(63 - 129)
Toluene-d8	83	(74 - 115)
4-Bromofluorobenzene	71	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2VP1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-386

Prep Date.....: 04/12/11
Analysis Date..: 04/12/11 **Prep Batch #...:** 1104386
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**11 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**1.1 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**5.0**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.96 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2VP1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	99	(33 - 134)
4-Bromofluorobenzene	97	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2XL1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-399

Prep Date.....: 04/13/11
Analysis Date..: 04/13/11 **Prep Batch #...:** 1104399
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**10 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**0.72 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**2.5 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.84 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2XL1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(30 - 122)
1,2-Dichloroethane-d4	107	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	96	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG6LN1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-356
Prep Date.....: 04/15/11
Analysis Date..: 04/15/11 **Prep Batch #...:** 1108356
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.82 J**	**5.0**	**ug/kg**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG7C61AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-159

Prep Date.....: 04/15/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1109159
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	94	(39 - 128)
Toluene-d8	96	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG57T1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D180000-284
Prep Date.....: 04/18/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1108284
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG57T1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	72	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0X1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D120000-046

Prep Date.....: 04/12/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1102046
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(27 - 111)
2-Fluorobiphenyl	58	(28 - 110)
Terphenyl-d14	77	(37 - 119)
Phenol-d5	64	(10 - 110)
2-Fluorophenol	66	(10 - 110)
2,4,6-Tribromophenol	47	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG02Q1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-059

Prep Date.....: 04/14/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1104059
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(24 - 112)
2-Fluorobiphenyl	54	(34 - 110)
Terphenyl-d14	70	(41 - 119)
Phenol-d5	59	(28 - 110)
2-Fluorophenol	60	(26 - 110)
2,4,6-Tribromophenol	51	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG81R1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D200000-133
Prep Date.....: 04/19/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1110133
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	**59 J**	**100**	**ug/kg**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	100	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG0161AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-046

Prep Date.....: 04/14/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1104046
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR9X1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D090000-024
Prep Date.....: 04/09/11
Analysis Date..: 04/16/11 **Prep Batch #...:** 1099024
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.50	ug/L	SW846 8082
Aroclor 1221	ND	0.50	ug/L	SW846 8082
Aroclor 1232	ND	0.50	ug/L	SW846 8082
Aroclor 1242	ND	0.50	ug/L	SW846 8082
Aroclor 1248	ND	0.50	ug/L	SW846 8082
Aroclor 1254	ND	0.50	ug/L	SW846 8082
Aroclor 1260	ND	0.50	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	106	(27 - 130)
Decachlorobiphenyl	84	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0Q1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D120000-041

Prep Date.....: 04/12/11
Analysis Date..: 04/16/11 **Prep Batch #...:** 1102041
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	93	(10 - 196)
Decachlorobiphenyl	83	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D080647 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D120000-020 **Prep Batch #...:** 1102020						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1AF
		Dilution Factor: 1				
Barium	**0.092 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/12-04/18/11**	**MGVXX1AL**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1AG
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1A8
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1A9
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	04/12-04/18/11	MGVXX1CA
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/12-04/13/11	MGVXX1AQ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D080647 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MGWXH1AA		MB Lot-Sample #:	A1D120000-313	
	ND	10.0	%	MCAWW 160.3 MOD	04/12-04/13/11	1102313
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2VP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-386
Prep Date.....: 04/12/11 **Analysis Date..:** 04/12/11
Prep Batch #...: 1104386
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	95	(16 - 156)	SW846 8260A
Benzene	**93**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	87	(61 - 121)	SW846 8260A
Bromodichloromethane	**99**	**(28 - 123)**	**SW846 8260A**
Bromoform	80	(10 - 117)	SW846 8260A
Bromomethane	82	(10 - 114)	SW846 8260A
2-Butanone	**106**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**95**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**90**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**94**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**97**	**(22 - 113)**	**SW846 8260A**
Chloroethane	100	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	95	(40 - 120)	SW846 8260A
Chloromethane	76	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**88**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**103**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	106	(48 - 151)	SW846 8260A
Methyl acetate	100	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**97**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	92	(41 - 133)	SW846 8260A
o-Xylene	**93**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**95**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**95**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	101	(25 - 140)	SW846 8260A
Acetonitrile	97	(15 - 179)	SW846 8260A
Acrolein	102	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**92**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	99	(49 - 126)	SW846 8260A
Bromobenzene	**96**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**94**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**109**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2VP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-386

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	63	(10 - 110)	SW846 8260A
sec-Butylbenzene	**101**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**97**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**94**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**94**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**95**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**103**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**104**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**111**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	75	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**95**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	105	(34 - 135)	SW846 8260A
Iodomethane	106	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**88**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	93	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**108**	**(56 - 136)**	**SW846 8260A**
Naphthalene	85	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**86**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**96**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**94**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	88	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**105**	**(74 - 124)**	**SW846 8260A**
1,1-Dichloroethene	**88**	**(44 - 143)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**104**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**102**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	106	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**99**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**90**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**99**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**94**	**(66 - 119)**	**SW846 8260A**
n-Hexane	102	(51 - 144)	SW846 8260A
2-Hexanone	**110**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**92**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**96**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**109**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**93**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2VP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-386

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**92**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**103**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**98**	**(58 - 131)**	**SW846 8260A**
Toluene	**95**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	94	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**90**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**102**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**92**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	108	(17 - 145)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**94**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	94	(33 - 134)
4-Bromofluorobenzene	97	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104399
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	100	(16 - 156)	SW846 8260A
Benzene	**93**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	93	(61 - 121)	SW846 8260A
Bromodichloromethane	**96**	**(28 - 123)**	**SW846 8260A**
Bromoform	79	(10 - 117)	SW846 8260A
Bromomethane	84	(10 - 114)	SW846 8260A
2-Butanone	**105**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**93**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**90**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**94**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**94**	**(22 - 113)**	**SW846 8260A**
Chloroethane	97	(10 - 120)	SW846 8260A
Chloroform	**104**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	94	(40 - 120)	SW846 8260A
Chloromethane	75	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**75**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**98**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	107	(48 - 151)	SW846 8260A
Methyl acetate	100	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**98**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	91	(41 - 133)	SW846 8260A
o-Xylene	**97**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**94**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**96**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	86	(25 - 140)	SW846 8260A
Acetonitrile	101	(15 - 179)	SW846 8260A
Acrolein	100	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**93**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	101	(49 - 126)	SW846 8260A
Bromobenzene	**95**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**99**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**108**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	60	(10 - 110)	SW846 8260A
sec-Butylbenzene	**101**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**100**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**94**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**100**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**95**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**102**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**100**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**112**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	75	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**99**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	99	(34 - 135)	SW846 8260A
Iodomethane	105	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**92**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	95	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**109**	**(56 - 136)**	**SW846 8260A**
Naphthalene	79	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**93**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**97**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**98**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	85	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**89**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**102**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**105**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**104**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	107	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**97**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**83**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**95**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**93**	**(66 - 119)**	**SW846 8260A**
n-Hexane	106	(51 - 144)	SW846 8260A
2-Hexanone	**103**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**95**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**91**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**97**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**91**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**94**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**97**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**98**	**(58 - 131)**	**SW846 8260A**
Toluene	**96**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	91	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**90**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**92**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	107	(17 - 145)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**95**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	79	(25 - 110)	SW846 8260A
Bromomethane	84	(10 - 114)	SW846 8260A
Vinyl chloride	**93**	**(33 - 110)**	**SW846 8260A**
Chloroethane	105	(10 - 120)	SW846 8260A
Methylene chloride	**103**	**(27 - 172)**	**SW846 8260A**
Acetone	135	(16 - 156)	SW846 8260A
Carbon disulfide	**106**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**105**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**112**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	106	(61 - 121)	SW846 8260A
Chloroform	**111**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**116**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**124**	**(10 - 199)**	**SW846 8260A**
1,1,1-Trichloroethane	**105**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**103**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**102**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**101**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**86**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**102**	**(59 - 124)**	**SW846 8260A**
Dibromochloromethane	**102**	**(22 - 113)**	**SW846 8260A**
1,1,2-Trichloroethane	**104**	**(74 - 114)**	**SW846 8260A**
Benzene	**101**	**(70 - 117)**	**SW846 8260A**
trans-1,3-Dichloropropene	**99**	**(22 - 122)**	**SW846 8260A**
Bromoform	86	(10 - 117)	SW846 8260A
4-Methyl-2-pentanone	**110**	**(49 - 121)**	**SW846 8260A**
2-Hexanone	**121**	**(43 - 130)**	**SW846 8260A**
Tetrachloroethene	**109**	**(58 - 131)**	**SW846 8260A**
Toluene	**102**	**(66 - 123)**	**SW846 8260A**
Chlorobenzene	**101**	**(71 - 116)**	**SW846 8260A**
Ethylbenzene	**101**	**(66 - 119)**	**SW846 8260A**
Styrene	**101**	**(60 - 120)**	**SW846 8260A**
Xylenes (total)	**104**	**(68 - 119)**	**SW846 8260A**
cis-1,2-Dichloroethene	**106**	**(60 - 125)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
trans-1,2-Dichloroethene	**106**	**(58 - 121)**	**SW846 8260A**
n-Hexane	127	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**103**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	112	(40 - 120)	SW846 8260A
1,2-Dibromoethane	**106**	**(47 - 123)**	**SW846 8260A**
1,2-Dibromo-3-chloro-propane	**98**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	63	(10 - 110)	SW846 8260A
Isopropylbenzene	**110**	**(61 - 123)**	**SW846 8260A**
Trichlorofluoromethane	118	(17 - 145)	SW846 8260A
Trichlorotrifluoroethane	125	(48 - 151)	SW846 8260A
Methyl acetate	115	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**105**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	111	(41 - 133)	SW846 8260A
o-Xylene	**107**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**103**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**102**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	106	(25 - 140)	SW846 8260A
Acetonitrile	114	(15 - 179)	SW846 8260A
Acrolein	114	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**100**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	114	(49 - 126)	SW846 8260A
Bromobenzene	**99**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**110**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**125**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**113**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**112**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**98**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**99**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**108**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**104**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	88	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**110**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	122	(34 - 135)	SW846 8260A
Iodomethane	122	(49 - 134)	SW846 8260A
Isopropyl ether	104	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**120**	**(56 - 136)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Naphthalene	100	(37 - 126)	SW846 8260A
n-Propylbenzene	**104**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**110**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	100	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**110**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**113**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**112**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	125	(48 - 151)	SW846 8260A
1,1,2,2-Tetrachloroethane	**107**	**(54 - 121)**	**SW846 8260A**
1,2,4-Trichloro-benzene	111	(41 - 135)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	85	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG7C61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-159
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109159
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	62	(25 - 110)	SW846 8260A
Bromomethane	36	(10 - 114)	SW846 8260A
Vinyl chloride	**68**	**(33 - 110)**	**SW846 8260A**
Chloroethane	40	(10 - 120)	SW846 8260A
Methylene chloride	**97**	**(27 - 172)**	**SW846 8260A**
Acetone	82	(16 - 156)	SW846 8260A
Carbon disulfide	**83**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**79**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**86**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	85	(61 - 121)	SW846 8260A
Chloroform	**90**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**86**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**73**	**(10 - 199)**	**SW846 8260A**
1,1,1-Trichloroethane	**83**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**80**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**91**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**92**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**80**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**83**	**(59 - 124)**	**SW846 8260A**
Dibromochloromethane	**87**	**(22 - 113)**	**SW846 8260A**
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Benzene	**87**	**(70 - 117)**	**SW846 8260A**
trans-1,3-Dichloropropene	**96**	**(22 - 122)**	**SW846 8260A**
Bromoform	91	(10 - 117)	SW846 8260A
4-Methyl-2-pentanone	**89**	**(49 - 121)**	**SW846 8260A**
2-Hexanone	**89**	**(43 - 130)**	**SW846 8260A**
Tetrachloroethene	**91**	**(58 - 131)**	**SW846 8260A**
Toluene	**95**	**(66 - 123)**	**SW846 8260A**
Chlorobenzene	**94**	**(71 - 116)**	**SW846 8260A**
Ethylbenzene	**92**	**(66 - 119)**	**SW846 8260A**
Styrene	**87**	**(60 - 120)**	**SW846 8260A**
Xylenes (total)	**95**	**(68 - 119)**	**SW846 8260A**
cis-1,2-Dichloroethene	**85**	**(60 - 125)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG7C61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-159

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**81**	**(10 - 129)**	**SW846 8260A**
trans-1,2-Dichloroethene	**85**	**(58 - 121)**	**SW846 8260A**
n-Hexane	85	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**89**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	76	(40 - 120)	SW846 8260A
1,2-Dibromoethane	**95**	**(47 - 123)**	**SW846 8260A**
Dichlorodifluoromethane	35	(10 - 110)	SW846 8260A
Isopropylbenzene	**82**	**(61 - 123)**	**SW846 8260A**
Trichlorofluoromethane	82	(17 - 145)	SW846 8260A
Trichlorotrifluoroethane	96	(48 - 151)	SW846 8260A
Methyl acetate	79	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**102**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	78	(41 - 133)	SW846 8260A
o-Xylene	**91**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**98**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**99**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	86	(25 - 140)	SW846 8260A
Acetonitrile	82	(15 - 179)	SW846 8260A
Acrolein	77	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**96**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	82	(49 - 126)	SW846 8260A
Bromobenzene	**100**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**88**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**91**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**86**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**81**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**96**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**104**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**94**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**100**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	82	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**86**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	98	(34 - 135)	SW846 8260A
Iodomethane	85	(49 - 134)	SW846 8260A
Isopropyl ether	77	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**92**	**(56 - 136)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG7C61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-159

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Naphthalene	73	(37 - 126)	SW846 8260A
n-Propylbenzene	**95**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**93**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	97	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**98**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**88**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**87**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	96	(48 - 151)	SW846 8260A
1,1,2,2-Tetrachloroethane	**101**	**(54 - 121)**	**SW846 8260A**
1,2,4-Trichloro-benzene	91	(41 - 135)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	91	(39 - 128)
Toluene-d8	101	(33 - 134)
4-Bromofluorobenzene	103	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG57T1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-284
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1108284
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	70	(43 - 136)	SW846 8260B
Benzene	**101**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	92	(82 - 114)	SW846 8260B
Bromodichloromethane	**103**	**(72 - 121)**	**SW846 8260B**
Bromoform	99	(40 - 131)	SW846 8260B
Bromomethane	48	(11 - 185)	SW846 8260B
2-Butanone	**87**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**102**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**100**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**103**	**(64 - 119)**	**SW846 8260B**
Chloroethane	47	(25 - 153)	SW846 8260B
Chloroform	**89**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	107	(74 - 151)	SW846 8260B
Methyl acetate	80	(58 - 131)	SW846 8260B
Chloromethane	76	(44 - 126)	SW846 8260B
Cyclohexane	95	(54 - 121)	SW846 8260B
Methylcyclohexane	100	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**78**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**99**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**94**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**94**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**98**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**105**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	107	(52 - 131)	SW846 8260B
Acetonitrile	71	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**95**	**(82 - 110)**	**SW846 8260B**
Acrolein	95	(51 - 170)	SW846 8260B
Vinyl acetate	118	(46 - 161)	SW846 8260B
Acrylonitrile	85	(66 - 132)	SW846 8260B
Bromobenzene	**108**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG57T1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-284

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	56	(19 - 129)	SW846 8260B
Bromochloromethane	**97**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**85**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**86**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**87**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**86**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**101**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**107**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**93**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**105**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**104**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	72	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**101**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**93**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	83	(36 - 134)	SW846 8260B
Iodomethane	109	(72 - 141)	SW846 8260B
Isopropyl ether	87	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**92**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**90**	**(74 - 120)**	**SW846 8260B**
Naphthalene	61	(32 - 141)	SW846 8260B
n-Propylbenzene	**102**	**(74 - 121)**	**SW846 8260B**
1,1-Dichloroethene	**92**	**(78 - 131)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**85**	**(72 - 116)**	**SW846 8260B**
1,2,3-Trichlorobenzene	85	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**94**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**90**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**103**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**88**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**109**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**103**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**104**	**(83 - 112)**	**SW846 8260B**
n-Hexane	122	(66 - 137)	SW846 8260B
2-Hexanone	**95**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**83**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**88**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**102**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**72**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG57T1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-284

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**98**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**90**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**110**	**(79 - 114)**	**SW846 8260B**
Toluene	**103**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	80	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**82**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**104**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**108**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	103	(49 - 157)	SW846 8260B
Vinyl chloride	**70**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**101**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	101	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0X1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D120000-046
Prep Date.....: 04/12/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1102046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**64**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**64**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**65**	**(43 - 110)**	**SW846 8270C**
Anthracene	**66**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**63**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**70**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**56**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**58**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**65**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**70**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**71**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**65**	**(19 - 110)**	**SW846 8270C**
Chrysene	**63**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**65**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**58**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**68**	**(54 - 122)**	**SW846 8270C**
Phenol	**69**	**(14 - 112)**	**SW846 8270C**
Fluorene	**64**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**65**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**68**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	65	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**65**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**75**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**63**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**48**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**65**	**(52 - 114)**	**SW846 8270C**
Pyrene	**65**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**66**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**64**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**66**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	68	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0X1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D120000-046

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**64**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**66**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**73**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**70**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**55**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**65**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**64**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**51**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	45	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**68**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**64**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**67**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**67**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**66**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	43	(19 - 110)	SW846 8270C
3-Nitroaniline	**64**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	60	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**67**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	57	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**33 a**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**68**	**(53 - 126)**	**SW846 8270C**
Carbazole	**65**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**64**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**67**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**67**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**51**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**67**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**63**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**65**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0X1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D120000-046

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**66**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**67**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**64**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**67**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	31	(10 - 110)	SW846 8270C
Benzoic acid	28	(10 - 129)	SW846 8270C
Pyridine	14	(10 - 110)	SW846 8270C
Atrazine	87	(50 - 130)	SW846 8270C
Acetophenone	69	(50 - 130)	SW846 8270C
1,1'-Biphenyl	64	(50 - 130)	SW846 8270C
Caprolactam	66	(50 - 130)	SW846 8270C
Aniline	54	(10 - 130)	SW846 8270C
Benzyl alcohol	71	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**69**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	65	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	64	(10 - 130)	SW846 8270C
Benzaldehyde	87	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	70	(25 - 128)	SW846 8270C
1,4-Dioxane	59	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	68	(27 - 111)
2-Fluorobiphenyl	63	(28 - 110)
Terphenyl-d14	78	(37 - 119)
Phenol-d5	72	(10 - 110)
2-Fluorophenol	72	(10 - 110)
2,4,6-Tribromophenol	73	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG02Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-059
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**60**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**63**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**61**	**(47 - 110)**	**SW846 8270C**
Anthracene	**63**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**65**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**67**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**57**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**78**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**66**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**66**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**49**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**62**	**(38 - 110)**	**SW846 8270C**
Chrysene	**62**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**65**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**60**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**66**	**(55 - 118)**	**SW846 8270C**
Phenol	**67**	**(39 - 110)**	**SW846 8270C**
Fluorene	**61**	**(51 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**65**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**64**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	63	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**67**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**73**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**61**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**68**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**62**	**(54 - 110)**	**SW846 8270C**
Pyrene	**62**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**64**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**61**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**68**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	67	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG02Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-059

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**65**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**64**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**67**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**65**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**79**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**62**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**67**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**45**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	55	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**69**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**61**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**63**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**66**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**67**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	42	(31 - 110)	SW846 8270C
3-Nitroaniline	**60**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	65	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**66**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	49	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**32 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**66**	**(57 - 121)**	**SW846 8270C**
Carbazole	**63**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**62**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**65**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**64**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**63**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**65**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**63**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**63**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG02Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-059

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**62**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**61**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**67**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	55	(10 - 110)	SW846 8270C
Benzoic acid	52	(10 - 124)	SW846 8270C
Pyridine	50	(22 - 110)	SW846 8270C
Atrazine	85	(50 - 130)	SW846 8270C
Acetophenone	64	(50 - 130)	SW846 8270C
1,1'-Biphenyl	60	(50 - 130)	SW846 8270C
Caprolactam	51	(50 - 130)	SW846 8270C
Aniline	40	(10 - 130)	SW846 8270C
Benzyl alcohol	68	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**62**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	63	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	58	(10 - 130)	SW846 8270C
Benzaldehyde	73	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	65	(36 - 116)	SW846 8270C
1,4-Dioxane	33	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	63	(24 - 112)
2-Fluorobiphenyl	58	(34 - 110)
Terphenyl-d14	70	(41 - 119)
Phenol-d5	66	(28 - 110)
2-Fluorophenol	67	(26 - 110)
2,4,6-Tribromophenol	59	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG81R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D200000-133
Prep Date.....: 04/19/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1110133
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**114**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	134	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MG0161AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-046
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**111**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	49	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR9X1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D090000-024
Prep Date.....: 04/09/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1099024
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**93**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**81**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	94	(27 - 130)
Decachlorobiphenyl	31	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGV0Q1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D120000-041
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**102**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**99**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	95	(10 - 196)
Decachlorobiphenyl	100	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D080647 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D120000-020 **Prep Batch #...:** 1102020					
Arsenic	97	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1AT
		Dilution Factor: 1			
Lead	100	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1AW
		Dilution Factor: 1			
Selenium	97	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1AX
		Dilution Factor: 1			
Barium	102	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1A3
		Dilution Factor: 1			
Cadmium	100	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1CC
		Dilution Factor: 1			
Chromium	101	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1CD
		Dilution Factor: 1			
Silver	94	(80 - 120)	SW846 6010B	04/12-04/18/11	MGVXX1CE
		Dilution Factor: 1			
Mercury	93	(73 - 121)	SW846 7471A	04/12-04/13/11	MGVXX1A7
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGMGG1EJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060563-001 MGMGG1EK-MSD
Date Sampled...: 04/05/11 11:30 **Date Received..:** 04/06/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/12/11
Prep Batch #...: 1104386
Dilution Factor: 1 **% Moisture.....:** 0.85

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	89	(10 - 142)			SW846 8260A
	86	(10 - 142)	3.0	(0-30)	SW846 8260A
Benzene	**93**	**(10 - 199)**			**SW846 8260A**
	90	**(10 - 199)**	**3.9**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**97**	**(18 - 133)**			**SW846 8260A**
	91	**(18 - 133)**	**5.7**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	89	(29 - 139)			SW846 8260A
	87	(29 - 139)	2.2	(0-30)	SW846 8260A
Bromoform	71	(10 - 147)			SW846 8260A
	65	(10 - 147)	9.1	(0-30)	SW846 8260A
Bromomethane	88	(10 - 151)			SW846 8260A
	86	(10 - 151)	2.0	(0-30)	SW846 8260A
2-Butanone	**100**	**(10 - 172)**			**SW846 8260A**
	96	**(10 - 172)**	**4.1**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**97**	**(10 - 155)**			**SW846 8260A**
	93	**(10 - 155)**	**4.1**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**90**	**(12 - 135)**			**SW846 8260A**
	87	**(12 - 135)**	**3.5**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**91**	**(47 - 118)**			**SW846 8260A**
	83	**(47 - 118)**	**8.6**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**93**	**(10 - 128)**			**SW846 8260A**
	83	**(10 - 128)**	**11**	**(0-30)**	**SW846 8260A**
Chloroethane	105	(10 - 168)			SW846 8260A
	103	(10 - 168)	1.4	(0-30)	SW846 8260A
Chloroform	**98**	**(51 - 120)**			**SW846 8260A**
	94	**(51 - 120)**	**4.8**	**(0-30)**	**SW846 8260A**
Cyclohexane	97	(10 - 154)			SW846 8260A
	94	(10 - 154)	3.8	(0-30)	SW846 8260A
Chloromethane	81	(16 - 115)			SW846 8260A
	80	(16 - 115)	1.2	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**70**	**(10 - 137)**			**SW846 8260A**
	68	**(10 - 137)**	**3.3**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**94**	**(32 - 127)**			**SW846 8260A**
	91	**(32 - 127)**	**3.3**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	116	(23 - 168)			SW846 8260A
	112	(23 - 168)	3.7	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGMGG1EJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060563-001 MGMGG1EK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	101	(10 - 175)			SW846 8260A
	97	(10 - 175)	4.0	(0-30)	SW846 8260A
Methylcyclohexane	92	(11 - 156)			SW846 8260A
	84	(11 - 156)	9.2	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**90**	**(27 - 126)**			**SW846 8260A**
	81	**(27 - 126)**	**11**	**(0-30)**	**SW846 8260A**
o-Xylene	**93**	**(18 - 151)**			**SW846 8260A**
	85	**(18 - 151)**	**9.3**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**93**	**(14 - 151)**			**SW846 8260A**
	86	**(14 - 151)**	**7.4**	**(0-30)**	**SW846 8260A**
Acetonitrile	104	(10 - 173)			SW846 8260A
	100	(10 - 173)	4.0	(0-30)	SW846 8260A
1,3-Dichlorobenzene	**90**	**(29 - 124)**			**SW846 8260A**
	80	**(29 - 124)**	**11**	**(0-30)**	**SW846 8260A**
Acrolein	89	(10 - 145)			SW846 8260A
	82	(10 - 145)	8.2	(0-30)	SW846 8260A
Acrylonitrile	98	(28 - 126)			SW846 8260A
	93	(28 - 126)	5.3	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**85**	**(30 - 123)**			**SW846 8260A**
	77	**(30 - 123)**	**9.5**	**(0-30)**	**SW846 8260A**
Bromobenzene	**92**	**(49 - 119)**			**SW846 8260A**
	85	**(49 - 119)**	**7.6**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**95**	**(42 - 123)**			**SW846 8260A**
	89	**(42 - 123)**	**6.5**	**(0-30)**	**SW846 8260A**
n-Butylbenzene	**97**	**(13 - 154)**			**SW846 8260A**
	86	**(13 - 154)**	**13**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**97**	**(41 - 133)**			**SW846 8260A**
	88	**(41 - 133)**	**9.9**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	69	(10 - 113)			SW846 8260A
	66	(10 - 113)	3.8	(0-30)	SW846 8260A
tert-Butylbenzene	**100**	**(45 - 132)**			**SW846 8260A**
	92	**(45 - 132)**	**8.0**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**93**	**(51 - 118)**			**SW846 8260A**
	85	**(51 - 118)**	**9.5**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**92**	**(43 - 120)**			**SW846 8260A**
	82	**(43 - 120)**	**12**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**98**	**(18 - 160)**			**SW846 8260A**
	93	**(18 - 160)**	**4.8**	**(0-30)**	**SW846 8260A**
Dibromomethane	**100**	**(45 - 121)**			**SW846 8260A**
	94	**(45 - 121)**	**5.8**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	77	(26 - 127)			SW846 8260A
	77	(26 - 127)	0.21	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGMGG1EJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060563-001 MGMGG1EK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloropropene	**97**	**(42 - 126)**			**SW846 8260A**
	92	**(42 - 126)**	**5.4**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**110**	**(25 - 150)**			**SW846 8260A**
	105	**(25 - 150)**	**4.9**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	83	(10 - 134)			SW846 8260A
	71	(10 - 134)	15	(0-30)	SW846 8260A
Iodomethane	110	(27 - 140)			SW846 8260A
	106	(27 - 140)	3.4	(0-30)	SW846 8260A
p-Isopropyltoluene	**102**	**(33 - 139)**			**SW846 8260A**
	92	**(33 - 139)**	**10**	**(0-30)**	**SW846 8260A**
cis-1,2-Dichloroethene	**88**	**(34 - 137)**			**SW846 8260A**
	87	**(34 - 137)**	**1.7**	**(0-30)**	**SW846 8260A**
Naphthalene	66	(10 - 199)			SW846 8260A
	61	(10 - 199)	7.0	(0-30)	SW846 8260A
n-Propylbenzene	**95**	**(41 - 135)**			**SW846 8260A**
	87	**(41 - 135)**	**9.4**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**91**	**(19 - 124)**			**SW846 8260A**
	86	**(19 - 124)**	**5.6**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**90**	**(40 - 126)**			**SW846 8260A**
	88	**(40 - 126)**	**2.6**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	67	(10 - 123)			SW846 8260A
	60	(10 - 123)	12	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**101**	**(54 - 142)**			**SW846 8260A**
	95	**(54 - 142)**	**5.9**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**103**	**(10 - 199)**			**SW846 8260A**
	94	**(10 - 199)**	**8.6**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethene	**93**	**(10 - 179)**			**SW846 8260A**
	91	**(10 - 179)**	**2.6**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**101**	**(10 - 173)**			**SW846 8260A**
	92	**(10 - 173)**	**9.4**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	116	(23 - 168)			SW846 8260A
	112	(23 - 168)	3.7	(0-30)	SW846 8260A
2-Chloroethyl vinyl ether	89	(10 - 137)			SW846 8260A
	83	(10 - 137)	6.6	(0-30)	SW846 8260A
1,2-Dichloropropane	**99**	**(58 - 118)**			**SW846 8260A**
	96	**(58 - 118)**	**3.8**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**98**	**(58 - 117)**			**SW846 8260A**
	94	**(58 - 117)**	**4.2**	**(0-30)**	**SW846 8260A**
cis-1,3-Dichloropropene	**87**	**(19 - 121)**			**SW846 8260A**
	81	**(19 - 121)**	**6.9**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGMGG1EJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060563-001 MGMGG1EK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	**91**	**(10 - 136)**			**SW846 8260A**
	87	**(10 - 136)**	**4.3**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**92**	**(27 - 143)**			**SW846 8260A**
	84	**(27 - 143)**	**9.1**	**(0-30)**	**SW846 8260A**
n-Hexane	99	(18 - 148)			SW846 8260A
	91	(18 - 148)	8.0	(0-30)	SW846 8260A
2-Hexanone	**100**	**(21 - 141)**			**SW846 8260A**
	94	**(21 - 141)**	**6.8**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**90**	**(39 - 126)**			**SW846 8260A**
	83	**(39 - 126)**	**7.6**	**(0-30)**	**SW846 8260A**
Methylene chloride	**87**	**(10 - 148)**			**SW846 8260A**
	85	**(10 - 148)**	**2.5**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**101**	**(19 - 151)**			**SW846 8260A**
	96	**(19 - 151)**	**4.4**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**93**	**(26 - 159)**			**SW846 8260A**
	90	**(26 - 159)**	**3.1**	**(0-30)**	**SW846 8260A**
Styrene	**88**	**(31 - 137)**			**SW846 8260A**
	80	**(31 - 137)**	**9.1**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**91**	**(16 - 158)**			**SW846 8260A**
	81	**(16 - 158)**	**12**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**99**	**(19 - 153)**			**SW846 8260A**
	91	**(19 - 153)**	**8.3**	**(0-30)**	**SW846 8260A**
Toluene	**94**	**(10 - 168)**			**SW846 8260A**
	88	**(10 - 168)**	**5.9**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	75	(10 - 136)			SW846 8260A
	63	(10 - 136)	17	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**94**	**(10 - 159)**			**SW846 8260A**
	92	**(10 - 159)**	**1.6**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**98**	**(34 - 152)**			**SW846 8260A**
	90	**(34 - 152)**	**7.6**	**(0-30)**	**SW846 8260A**
Trichloroethene	**101**	**(10 - 193)**			**SW846 8260A**
	97	**(10 - 193)**	**3.6**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	115	(10 - 157)			SW846 8260A
	111	(10 - 157)	3.8	(0-30)	SW846 8260A
Vinyl chloride	**91**	**(15 - 123)**			**SW846 8260A**
	91	**(15 - 123)**	**0.05**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**93**	**(16 - 150)**			**SW846 8260A**
	86	**(16 - 150)**	**8.0**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGMGG1EJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D060563-001 MGMGG1EK-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(30 - 122)
	88	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
	106	(39 - 128)
Toluene-d8	93	(33 - 134)
	94	(33 - 134)
4-Bromofluorobenzene	95	(26 - 141)
	98	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	109	(10 - 142)			SW846 8260A
	100	(10 - 142)	7.9	(0-30)	SW846 8260A
Benzene	**94**	**(10 - 199)**			**SW846 8260A**
	81	**(10 - 199)**	**15**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**86**	**(18 - 133)**			**SW846 8260A**
	77	**(18 - 133)**	**10**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	94	(29 - 139)			SW846 8260A
	80	(29 - 139)	17	(0-30)	SW846 8260A
Bromoform	65	(10 - 147)			SW846 8260A
	53	(10 - 147)	20	(0-30)	SW846 8260A
Bromomethane	98	(10 - 151)			SW846 8260A
	83	(10 - 151)	16	(0-30)	SW846 8260A
2-Butanone	**112**	**(10 - 172)**			**SW846 8260A**
	108	**(10 - 172)**	**4.0**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**108**	**(10 - 155)**			**SW846 8260A**
	82	**(10 - 155)**	**26**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**99**	**(12 - 135)**			**SW846 8260A**
	82	**(12 - 135)**	**18**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**94**	**(47 - 118)**			**SW846 8260A**
	68 p	**(47 - 118)**	**32**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**92**	**(10 - 128)**			**SW846 8260A**
	68	**(10 - 128)**	**29**	**(0-30)**	**SW846 8260A**
Chloroethane	119	(10 - 168)			SW846 8260A
	98	(10 - 168)	20	(0-30)	SW846 8260A
Chloroform	**101**	**(51 - 120)**			**SW846 8260A**
	87	**(51 - 120)**	**15**	**(0-30)**	**SW846 8260A**
Cyclohexane	106	(10 - 154)			SW846 8260A
	86	(10 - 154)	21	(0-30)	SW846 8260A
Chloromethane	91	(16 - 115)			SW846 8260A
	80	(16 - 115)	13	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**94**	**(10 - 137)**			**SW846 8260A**
	54 p	**(10 - 137)**	**55**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**94**	**(32 - 127)**			**SW846 8260A**
	74	**(32 - 127)**	**25**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	128	(23 - 168)			SW846 8260A
	107	(23 - 168)	19	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	109	(10 - 175)			SW846 8260A
	105	(10 - 175)	4.1	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**105**	**(27 - 126)**			**SW846 8260A**
	61 p	**(27 - 126)**	**53**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	93	(11 - 156)			SW846 8260A
	78	(11 - 156)	17	(0-30)	SW846 8260A
o-Xylene	**106**	**(18 - 151)**			**SW846 8260A**
	77 p	**(18 - 151)**	**32**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**101**	**(14 - 151)**			**SW846 8260A**
	75	**(14 - 151)**	**30**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**107**	**(29 - 124)**			**SW846 8260A**
	61 p	**(29 - 124)**	**54**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	75	(10 - 137)			SW846 8260A
	61	(10 - 137)	20	(0-30)	SW846 8260A
Acetonitrile	117	(10 - 173)			SW846 8260A
	109	(10 - 173)	6.4	(0-30)	SW846 8260A
Acrolein	112	(10 - 145)			SW846 8260A
	102	(10 - 145)	9.1	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**97**	**(30 - 123)**			**SW846 8260A**
	57 p	**(30 - 123)**	**51**	**(0-30)**	**SW846 8260A**
Acrylonitrile	108	(28 - 126)			SW846 8260A
	99	(28 - 126)	9.1	(0-30)	SW846 8260A
Bromobenzene	**120 a**	**(49 - 119)**			**SW846 8260A**
	65 p	**(49 - 119)**	**59**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**94**	**(42 - 123)**			**SW846 8260A**
	83	**(42 - 123)**	**12**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	75	(10 - 113)			SW846 8260A
	64	(10 - 113)	16	(0-30)	SW846 8260A
n-Butylbenzene	**143**	**(13 - 154)**			**SW846 8260A**
	72 p	**(13 - 154)**	**65**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**163 a**	**(41 - 133)**			**SW846 8260A**
	79 p	**(41 - 133)**	**69**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**175 a**	**(45 - 132)**			**SW846 8260A**
	82 p	**(45 - 132)**	**72**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**104**	**(18 - 160)**			**SW846 8260A**
	92	**(18 - 160)**	**12**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**141 a**	**(51 - 118)**			**SW846 8260A**
	70 p	**(51 - 118)**	**68**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**122 a**	**(43 - 120)**			**SW846 8260A**
	66 p	**(43 - 120)**	**59**	**(0-30)**	**SW846 8260A**
Dibromomethane	**91**	**(45 - 121)**			**SW846 8260A**
	81	**(45 - 121)**	**12**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloroethane	**106**	**(25 - 150)**			**SW846 8260A**
	95	**(25 - 150)**	**11**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**110**	**(58 - 117)**			**SW846 8260A**
	79 p	**(58 - 117)**	**33**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	86	(26 - 127)			SW846 8260A
	73	(26 - 127)	16	(0-30)	SW846 8260A
1,1-Dichloropropene	**94**	**(42 - 126)**			**SW846 8260A**
	81	**(42 - 126)**	**15**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	141 a	(10 - 134)			SW846 8260A
	67 p	(10 - 134)	72	(0-30)	SW846 8260A
cis-1,2-Dichloroethene	**92**	**(34 - 137)**			**SW846 8260A**
	78	**(34 - 137)**	**16**	**(0-30)**	**SW846 8260A**
Iodomethane	118	(27 - 140)			SW846 8260A
	98	(27 - 140)	19	(0-30)	SW846 8260A
p-Isopropyltoluene	**164 a**	**(33 - 139)**			**SW846 8260A**
	82 p	**(33 - 139)**	**66**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**97**	**(40 - 126)**			**SW846 8260A**
	81	**(40 - 126)**	**18**	**(0-30)**	**SW846 8260A**
Naphthalene	51	(10 - 199)			SW846 8260A
	39	(10 - 199)	28	(0-30)	SW846 8260A
n-Propylbenzene	**147 a**	**(41 - 135)**			**SW846 8260A**
	75 p	**(41 - 135)**	**65**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**112**	**(19 - 124)**			**SW846 8260A**
	80 p	**(19 - 124)**	**34**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethene	**102**	**(10 - 179)**			**SW846 8260A**
	82	**(10 - 179)**	**22**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	59	(10 - 123)			SW846 8260A
	42 p	(10 - 123)	34	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**169 a**	**(54 - 142)**			**SW846 8260A**
	86 p	**(54 - 142)**	**65**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**159**	**(10 - 199)**			**SW846 8260A**
	79 p	**(10 - 199)**	**66**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**167**	**(10 - 173)**			**SW846 8260A**
	82 p	**(10 - 173)**	**69**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**93**	**(58 - 118)**			**SW846 8260A**
	82	**(58 - 118)**	**14**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	128	(23 - 168)			SW846 8260A
	107	(23 - 168)	19	(0-30)	SW846 8260A
cis-1,3-Dichloropropene	**67**	**(19 - 121)**			**SW846 8260A**
	61	**(19 - 121)**	**9.0**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	**84**	**(10 - 136)**			**SW846 8260A**
	65	**(10 - 136)**	**25**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**101**	**(27 - 143)**			**SW846 8260A**
	72 p	**(27 - 143)**	**33**	**(0-30)**	**SW846 8260A**
n-Hexane	91	(18 - 148)			SW846 8260A
	85	(18 - 148)	7.3	(0-30)	SW846 8260A
2-Hexanone	**129**	**(21 - 141)**			**SW846 8260A**
	96	**(21 - 141)**	**30**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**106**	**(39 - 126)**			**SW846 8260A**
	76 p	**(39 - 126)**	**33**	**(0-30)**	**SW846 8260A**
Methylene chloride	**98**	**(10 - 148)**			**SW846 8260A**
	80	**(10 - 148)**	**18**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**103**	**(19 - 151)**			**SW846 8260A**
	93	**(19 - 151)**	**9.8**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**99**	**(26 - 159)**			**SW846 8260A**
	90	**(26 - 159)**	**9.2**	**(0-30)**	**SW846 8260A**
Styrene	**85**	**(31 - 137)**			**SW846 8260A**
	65	**(31 - 137)**	**26**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**162 a**	**(16 - 158)**			**SW846 8260A**
	85 p	**(16 - 158)**	**62**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**111**	**(19 - 153)**			**SW846 8260A**
	83	**(19 - 153)**	**29**	**(0-30)**	**SW846 8260A**
Toluene	**113**	**(10 - 168)**			**SW846 8260A**
	79 p	**(10 - 168)**	**35**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	68	(10 - 136)			SW846 8260A
	45 p	(10 - 136)	42	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**102**	**(10 - 159)**			**SW846 8260A**
	88	**(10 - 159)**	**15**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**112**	**(34 - 152)**			**SW846 8260A**
	82	**(34 - 152)**	**30**	**(0-30)**	**SW846 8260A**
Trichloroethene	**84**	**(10 - 193)**			**SW846 8260A**
	74	**(10 - 193)**	**13**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	130	(10 - 157)			SW846 8260A
	108	(10 - 157)	19	(0-30)	SW846 8260A
Vinyl chloride	**103**	**(15 - 123)**			**SW846 8260A**
	88	**(15 - 123)**	**16**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**103**	**(16 - 150)**			**SW846 8260A**
	75 p	**(16 - 150)**	**31**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(30 - 122)
	95	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
	112	(39 - 128)
Toluene-d8	81	(33 - 134)
	91	(33 - 134)
4-Bromofluorobenzene	83	(26 - 141)
	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG4RF1EX-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1E0-MSD
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109159
Dilution Factor: 1.72 **% Moisture.....:** 30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**61 DIL**	**(10 - 179)**			**SW846 8260A**
	62 DIL	**(10 - 179)**	**14**	**(0-30)**	**SW846 8260A**
Chloromethane	28 DIL	(16 - 115)			SW846 8260A
	34 DIL	(16 - 115)	27	(0-30)	SW846 8260A
Bromomethane	47 DIL	(10 - 151)			SW846 8260A
	53 DIL	(10 - 151)	24	(0-30)	SW846 8260A
Vinyl chloride	**37 DIL**	**(15 - 123)**			**SW846 8260A**
	40 DIL	**(15 - 123)**	**20**	**(0-30)**	**SW846 8260A**
Chloroethane	44 DIL	(10 - 168)			SW846 8260A
	41 DIL	(10 - 168)	4.3	(0-30)	SW846 8260A
Methylene chloride	**49 DIL**	**(10 - 148)**			**SW846 8260A**
	46 DIL	**(10 - 148)**	**2.9**	**(0-30)**	**SW846 8260A**
Acetone	58 DIL	(10 - 142)			SW846 8260A
	50 DIL	(10 - 142)	0.98	(0-30)	SW846 8260A
Carbon disulfide	**0.0 DIL,a**	**(10 - 155)**			**SW846 8260A**
	0.0 DIL,a	**(10 - 155)**	**0.0**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**69 DIL**	**(18 - 160)**			**SW846 8260A**
	68 DIL	**(18 - 160)**	**10**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	61 DIL	(29 - 139)			SW846 8260A
	57 DIL	(29 - 139)	6.6	(0-30)	SW846 8260A
Chloroform	**71 DIL**	**(51 - 120)**			**SW846 8260A**
	69 DIL	**(51 - 120)**	**9.9**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**78 DIL**	**(25 - 150)**			**SW846 8260A**
	79 DIL	**(25 - 150)**	**13**	**(0-30)**	**SW846 8260A**
2-Butanone	**69 DIL**	**(10 - 172)**			**SW846 8260A**
	64 DIL	**(10 - 172)**	**5.0**	**(0-30)**	**SW846 8260A**
1,1,1-Trichloroethane	**65 DIL**	**(10 - 159)**			**SW846 8260A**
	65 DIL	**(10 - 159)**	**13**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**60 DIL**	**(12 - 135)**			**SW846 8260A**
	61 DIL	**(12 - 135)**	**13**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**66 DIL**	**(18 - 133)**			**SW846 8260A**
	65 DIL	**(18 - 133)**	**11**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**73 DIL**	**(58 - 118)**			**SW846 8260A**
	71 DIL	**(58 - 118)**	**10**	**(0-30)**	**SW846 8260A**
cis-1,3-Dichloropropene	**57 DIL**	**(19 - 121)**			**SW846 8260A**
	57 DIL	**(19 - 121)**	**12**	**(0-30)**	**SW846 8260A**
Trichloroethene	**116 DIL**	**(10 - 193)**			**SW846 8260A**
	111 DIL	**(10 - 193)**	**7.6**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG4RF1EX-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1E0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromochloromethane	**66 DIL**	**(10 - 128)**			**SW846 8260A**
	64 DIL	**(10 - 128)**	**8.0**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**75 DIL**	**(34 - 152)**			**SW846 8260A**
	71 DIL	**(34 - 152)**	**6.6**	**(0-30)**	**SW846 8260A**
Benzene	**0.0 DIL,a**	**(10 - 199)**			**SW846 8260A**
	0.0 DIL,a	**(10 - 199)**	**0.0**	**(0-30)**	**SW846 8260A**
trans-1,3-Dichloropropene	**69 DIL**	**(10 - 136)**			**SW846 8260A**
	64 DIL	**(10 - 136)**	**4.2**	**(0-30)**	**SW846 8260A**
Bromoform	65 DIL	(10 - 147)			SW846 8260A
	63 DIL	(10 - 147)	8.4	(0-30)	SW846 8260A
4-Methyl-2-pentanone	**94 DIL**	**(19 - 151)**			**SW846 8260A**
	88 DIL	**(19 - 151)**	**5.2**	**(0-30)**	**SW846 8260A**
2-Hexanone	**97 DIL**	**(21 - 141)**			**SW846 8260A**
	90 DIL	**(21 - 141)**	**4.6**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**71 DIL**	**(19 - 153)**			**SW846 8260A**
	67 DIL	**(19 - 153)**	**6.3**	**(0-30)**	**SW846 8260A**
Toluene	**59 DIL**	**(10 - 168)**			**SW846 8260A**
	58 DIL	**(10 - 168)**	**5.1**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**74 DIL**	**(47 - 118)**			**SW846 8260A**
	70 DIL	**(47 - 118)**	**6.9**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**69 DIL**	**(27 - 143)**			**SW846 8260A**
	63 DIL	**(27 - 143)**	**3.6**	**(0-30)**	**SW846 8260A**
Styrene	**59 DIL**	**(31 - 137)**			**SW846 8260A**
	58 DIL	**(31 - 137)**	**11**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**67 DIL**	**(16 - 150)**			**SW846 8260A**
	67 DIL	**(16 - 150)**	**9.0**	**(0-30)**	**SW846 8260A**
1,2-Dibromo-3-chloro- propane	**61 DIL**	**(10 - 137)**			**SW846 8260A**
	62 DIL	**(10 - 137)**	**13**	**(0-30)**	**SW846 8260A**
cis-1,2-Dichloroethene	**66 DIL**	**(34 - 137)**			**SW846 8260A**
	62 DIL	**(34 - 137)**	**6.2**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**56 DIL**	**(40 - 126)**			**SW846 8260A**
	53 DIL	**(40 - 126)**	**6.9**	**(0-30)**	**SW846 8260A**
n-Hexane	43 DIL	(18 - 148)			SW846 8260A
	46 DIL	(18 - 148)	17	(0-30)	SW846 8260A
Methyl tert-butyl ether	**68 DIL**	**(26 - 159)**			**SW846 8260A**
	65 DIL	**(26 - 159)**	**7.4**	**(0-30)**	**SW846 8260A**
Cyclohexane	48 DIL	(10 - 154)			SW846 8260A
	49 DIL	(10 - 154)	13	(0-30)	SW846 8260A
1,2-Dibromoethane	**71 DIL**	**(32 - 127)**			**SW846 8260A**
	63 DIL	**(32 - 127)**	**0.56**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG4RF1EX-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1E0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dichlorodifluoromethane	10 DIL	(10 - 113)			SW846 8260A
	15 DIL,p	(10 - 113)	52	(0-30)	SW846 8260A
Isopropylbenzene	**61 DIL**	**(39 - 126)**			**SW846 8260A**
	60 DIL	**(39 - 126)**	**10**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	51 DIL	(10 - 157)			SW846 8260A
	57 DIL	(10 - 157)	23	(0-30)	SW846 8260A
Trichlorotrifluoroethane	62 DIL	(23 - 168)			SW846 8260A
	65 DIL	(23 - 168)	17	(0-30)	SW846 8260A
Methyl acetate	42 DIL	(10 - 175)			SW846 8260A
	65 DIL	(10 - 175)	28	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**75 DIL**	**(27 - 126)**			**SW846 8260A**
	71 DIL	**(27 - 126)**	**7.2**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	46 DIL	(11 - 156)			SW846 8260A
	51 DIL	(11 - 156)	16	(0-30)	SW846 8260A
o-Xylene	**69 DIL**	**(18 - 151)**			**SW846 8260A**
	67 DIL	**(18 - 151)**	**7.7**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**66 DIL**	**(14 - 151)**			**SW846 8260A**
	66 DIL	**(14 - 151)**	**9.7**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**70 DIL**	**(29 - 124)**			**SW846 8260A**
	68 DIL	**(29 - 124)**	**9.3**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	90 DIL	(10 - 137)			SW846 8260A
	85 DIL	(10 - 137)	5.9	(0-30)	SW846 8260A
Acetonitrile	75 DIL	(10 - 173)			SW846 8260A
	70 DIL	(10 - 173)	4.9	(0-30)	SW846 8260A
Acrolein	0.0 DIL,a	(10 - 145)			SW846 8260A
	0.0 DIL,a	(10 - 145)	0.0	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**65 DIL**	**(30 - 123)**			**SW846 8260A**
	67 DIL	**(30 - 123)**	**15**	**(0-30)**	**SW846 8260A**
Acrylonitrile	31 DIL	(28 - 126)			SW846 8260A
	37 DIL	(28 - 126)	29	(0-30)	SW846 8260A
Cyclohexanone	88 DIL	(10 - 199)			SW846 8260A
	87 DIL	(10 - 199)	12	(0-30)	SW846 8260A
Bromobenzene	**70 DIL**	**(49 - 119)**			**SW846 8260A**
	69 DIL	**(49 - 119)**	**9.7**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**71 DIL**	**(42 - 123)**			**SW846 8260A**
	60 DIL	**(42 - 123)**	**4.4**	**(0-30)**	**SW846 8260A**
n-Butylbenzene	**62 DIL**	**(13 - 154)**			**SW846 8260A**
	62 DIL	**(13 - 154)**	**11**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**65 DIL**	**(41 - 133)**			**SW846 8260A**
	64 DIL	**(41 - 133)**	**12**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**63 DIL**	**(45 - 132)**			**SW846 8260A**
	60 DIL	**(45 - 132)**	**7.1**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG4RF1EX-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1E0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Chlorotoluene	**75 DIL**	**(51 - 118)**			**SW846 8260A**
	72 DIL	**(51 - 118)**	**7.9**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**69 DIL**	**(43 - 120)**			**SW846 8260A**
	71 DIL	**(43 - 120)**	**15**	**(0-30)**	**SW846 8260A**
Dibromomethane	**69 DIL**	**(45 - 121)**			**SW846 8260A**
	66 DIL	**(45 - 121)**	**7.6**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**72 DIL**	**(58 - 117)**			**SW846 8260A**
	71 DIL	**(58 - 117)**	**11**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	64 DIL	(26 - 127)			SW846 8260A
	67 DIL	(26 - 127)	18	(0-30)	SW846 8260A
1,1-Dichloropropene	**59 DIL**	**(42 - 126)**			**SW846 8260A**
	59 DIL	**(42 - 126)**	**12**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	81 DIL	(10 - 134)			SW846 8260A
	80 DIL	(10 - 134)	10	(0-30)	SW846 8260A
Iodomethane	50 DIL	(27 - 140)			SW846 8260A
	50 DIL	(27 - 140)	12	(0-30)	SW846 8260A
Isopropyl ether	54 DIL,a	(63 - 111)			SW846 8260A
	49 DIL,a	(63 - 111)	3.0	(0-30)	SW846 8260A
p-Isopropyltoluene	**64 DIL**	**(33 - 139)**			**SW846 8260A**
	65 DIL	**(33 - 139)**	**13**	**(0-30)**	**SW846 8260A**
Naphthalene	0.0 DIL,a	(10 - 199)			SW846 8260A
	0.0 DIL,a	(10 - 199)	0.0	(0-30)	SW846 8260A
n-Propylbenzene	**63 DIL**	**(41 - 135)**			**SW846 8260A**
	69 DIL	**(41 - 135)**	**21**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**74 DIL**	**(19 - 124)**			**SW846 8260A**
	73 DIL	**(19 - 124)**	**11**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	74 DIL	(10 - 123)			SW846 8260A
	71 DIL	(10 - 123)	8.4	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**88 DIL**	**(54 - 142)**			**SW846 8260A**
	75 DIL	**(54 - 142)**	**4.9**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**70 DIL**	**(10 - 199)**			**SW846 8260A**
	68 DIL	**(10 - 199)**	**8.6**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**66 DIL**	**(10 - 173)**			**SW846 8260A**
	68 DIL	**(10 - 173)**	**15**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	62 DIL	(23 - 168)			SW846 8260A
	65 DIL	(23 - 168)	17	(0-30)	SW846 8260A
1,1,2,2-Tetrachloroethane	**0.0 DIL,a**	**(16 - 158)**			**SW846 8260A**
	0.0 DIL,a	**(16 - 158)**	**0.0**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MG4RF1EX-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1E0-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trichloro-benzene	68 DIL	(10 - 136)			SW846 8260A
	59 DIL	(10 - 136)	1.2	(0-30)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	51 DIL	(30 - 122)
	57 DIL	(30 - 122)
1,2-Dichloroethane-d4	62 DIL	(39 - 128)
	63 DIL	(39 - 128)
Toluene-d8	65 DIL	(33 - 134)
	69 DIL	(33 - 134)
4-Bromofluorobenzene	67 DIL	(26 - 141)
	71 DIL	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVFC1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CQ-MSD
Date Sampled...: 04/08/11 11:00 **Date Received..:** 04/09/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1108284
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	64	(33 - 145)			SW846 8260B
	73	(33 - 145)	14	(0-30)	SW846 8260B
Benzene	**98**	**(72 - 121)**			**SW846 8260B**
	100	**(72 - 121)**	**1.2**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**99**	**(67 - 120)**			**SW846 8260B**
	100	**(67 - 120)**	**0.40**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	89	(75 - 119)			SW846 8260B
	92	(75 - 119)	3.3	(0-30)	SW846 8260B
Bromoform	94	(32 - 128)			SW846 8260B
	97	(32 - 128)	3.8	(0-30)	SW846 8260B
Bromomethane	40	(10 - 186)			SW846 8260B
	56 p	(10 - 186)	33	(0-30)	SW846 8260B
2-Butanone	**82**	**(54 - 129)**			**SW846 8260B**
	86	**(54 - 129)**	**3.7**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**98**	**(57 - 147)**			**SW846 8260B**
	101	**(57 - 147)**	**3.6**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(59 - 129)**			**SW846 8260B**
	99	**(59 - 129)**	**3.7**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**100**	**(80 - 110)**			**SW846 8260B**
	99	**(80 - 110)**	**1.1**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**98**	**(56 - 118)**			**SW846 8260B**
	100	**(56 - 118)**	**2.2**	**(0-30)**	**SW846 8260B**
Chloroethane	41	(21 - 165)			SW846 8260B
	53	(21 - 165)	25	(0-30)	SW846 8260B
Chloroform	**87**	**(76 - 118)**			**SW846 8260B**
	88	**(76 - 118)**	**1.5**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	108	(70 - 152)			SW846 8260B
	109	(70 - 152)	0.42	(0-30)	SW846 8260B
Methyl acetate	71	(47 - 130)			SW846 8260B
	70	(47 - 130)	2.1	(0-30)	SW846 8260B
Chloromethane	69	(33 - 132)			SW846 8260B
	73	(33 - 132)	6.6	(0-30)	SW846 8260B
Cyclohexane	91	(49 - 123)			SW846 8260B
	93	(49 - 123)	2.4	(0-30)	SW846 8260B
Methylcyclohexane	94	(49 - 127)			SW846 8260B
	98	(49 - 127)	4.6	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVFC1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**72**	**(32 - 139)**			**SW846 8260B**
	74	**(32 - 139)**	**3.4**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**97**	**(74 - 113)**			**SW846 8260B**
	100	**(74 - 113)**	**3.1**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**90**	**(75 - 111)**			**SW846 8260B**
	91	**(75 - 111)**	**1.2**	**(0-30)**	**SW846 8260B**
o-Xylene	**92**	**(76 - 116)**			**SW846 8260B**
	93	**(76 - 116)**	**0.37**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**93**	**(73 - 110)**			**SW846 8260B**
	95	**(73 - 110)**	**1.6**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**103**	**(75 - 117)**			**SW846 8260B**
	104	**(75 - 117)**	**0.59**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	66	(12 - 182)			SW846 8260B
	73	(12 - 182)	8.8	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**91**	**(75 - 110)**			**SW846 8260B**
	92	**(75 - 110)**	**2.1**	**(0-30)**	**SW846 8260B**
Acrolein	87	(47 - 168)			SW846 8260B
	97	(47 - 168)	10	(0-30)	SW846 8260B
Acrylonitrile	83	(62 - 133)			SW846 8260B
	86	(62 - 133)	3.3	(0-30)	SW846 8260B
Vinyl acetate	107	(43 - 157)			SW846 8260B
	107	(43 - 157)	0.38	(0-30)	SW846 8260B
Bromobenzene	**101**	**(71 - 116)**			**SW846 8260B**
	103	**(71 - 116)**	**2.0**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	55	(17 - 128)			SW846 8260B
	53	(17 - 128)	2.7	(0-30)	SW846 8260B
Bromochloromethane	**94**	**(73 - 121)**			**SW846 8260B**
	97	**(73 - 121)**	**3.6**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**78**	**(56 - 127)**			**SW846 8260B**
	80	**(56 - 127)**	**2.1**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**80**	**(60 - 119)**			**SW846 8260B**
	81	**(60 - 119)**	**2.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**82**	**(79 - 116)**			**SW846 8260B**
	85	**(79 - 116)**	**3.4**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**81**	**(61 - 119)**			**SW846 8260B**
	83	**(61 - 119)**	**1.5**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**96**	**(69 - 117)**			**SW846 8260B**
	97	**(69 - 117)**	**0.89**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVFC1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**100**	**(71 - 116)**			**SW846 8260B**
	101	**(71 - 116)**	**1.6**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**91**	**(68 - 129)**			**SW846 8260B**
	95	**(68 - 129)**	**3.8**	**(0-30)**	**SW846 8260B**
Dibromomethane	**102**	**(77 - 121)**			**SW846 8260B**
	104	**(77 - 121)**	**2.3**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**101**	**(74 - 118)**			**SW846 8260B**
	102	**(74 - 118)**	**0.91**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	61	(38 - 127)			SW846 8260B
	65	(38 - 127)	6.8	(0-30)	SW846 8260B
1,1-Dichloropropene	**98**	**(80 - 114)**			**SW846 8260B**
	100	**(80 - 114)**	**1.7**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**90**	**(70 - 120)**			**SW846 8260B**
	93	**(70 - 120)**	**3.9**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	75	(27 - 132)			SW846 8260B
	78	(27 - 132)	4.1	(0-30)	SW846 8260B
Iodomethane	106	(66 - 144)			SW846 8260B
	109	(66 - 144)	2.7	(0-30)	SW846 8260B
Isopropyl ether	79	(73 - 118)			SW846 8260B
	85	(73 - 118)	7.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**89**	**(80 - 119)**			**SW846 8260B**
	91	**(80 - 119)**	**2.7**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**84**	**(64 - 122)**			**SW846 8260B**
	85	**(64 - 122)**	**0.89**	**(0-30)**	**SW846 8260B**
Naphthalene	56	(15 - 158)			SW846 8260B
	62	(15 - 158)	9.7	(0-30)	SW846 8260B
n-Propylbenzene	**97**	**(64 - 124)**			**SW846 8260B**
	99	**(64 - 124)**	**1.8**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**90**	**(74 - 135)**			**SW846 8260B**
	92	**(74 - 135)**	**1.6**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**84**	**(64 - 118)**			**SW846 8260B**
	83	**(64 - 118)**	**0.98**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	80	(45 - 129)			SW846 8260B
	85	(45 - 129)	6.2	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**92**	**(67 - 132)**			**SW846 8260B**
	96	**(67 - 132)**	**4.6**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**84**	**(67 - 124)**			**SW846 8260B**
	86	**(67 - 124)**	**2.5**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**99**	**(78 - 115)**			**SW846 8260B**
	98	**(78 - 115)**	**0.32**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**83**	**(63 - 121)**			**SW846 8260B**
	84	**(63 - 121)**	**1.0**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVFC1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**91**	**(51 - 110)**			**SW846 8260B**
	95	**(51 - 110)**	**5.2**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**94**	**(46 - 116)**			**SW846 8260B**
	96	**(46 - 116)**	**2.8**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**102**	**(75 - 116)**			**SW846 8260B**
	103	**(75 - 116)**	**0.39**	**(0-30)**	**SW846 8260B**
n-Hexane	113	(54 - 138)			SW846 8260B
	114	(54 - 138)	0.82	(0-30)	SW846 8260B
2-Hexanone	**95**	**(47 - 139)**			**SW846 8260B**
	99	**(47 - 139)**	**4.5**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**80**	**(68 - 116)**			**SW846 8260B**
	81	**(68 - 116)**	**0.62**	**(0-30)**	**SW846 8260B**
Methylene chloride	**83**	**(63 - 128)**			**SW846 8260B**
	85	**(63 - 128)**	**3.4**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**92**	**(56 - 131)**			**SW846 8260B**
	100	**(56 - 131)**	**8.9**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**61**	**(46 - 144)**			**SW846 8260B**
	67	**(46 - 144)**	**9.9**	**(0-30)**	**SW846 8260B**
Styrene	**95**	**(71 - 117)**			**SW846 8260B**
	95	**(71 - 117)**	**0.19**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**87**	**(63 - 122)**			**SW846 8260B**
	92	**(63 - 122)**	**5.6**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**104**	**(70 - 117)**			**SW846 8260B**
	105	**(70 - 117)**	**1.5**	**(0-30)**	**SW846 8260B**
Toluene	**102**	**(78 - 114)**			**SW846 8260B**
	102	**(78 - 114)**	**0.56**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	73	(38 - 138)			SW846 8260B
	76	(38 - 138)	4.1	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**76**	**(68 - 121)**			**SW846 8260B**
	81	**(68 - 121)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**102**	**(75 - 115)**			**SW846 8260B**
	104	**(75 - 115)**	**1.8**	**(0-30)**	**SW846 8260B**
Trichloroethene	**105**	**(66 - 120)**			**SW846 8260B**
	107	**(66 - 120)**	**1.2**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	98	(46 - 157)			SW846 8260B
	104	(46 - 157)	5.7	(0-30)	SW846 8260B
Vinyl chloride	**71**	**(49 - 130)**			**SW846 8260B**
	71	**(49 - 130)**	**1.2**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVFC1CP-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**100**	**(76 - 116)**			**SW846 8260B**
	100	**(76 - 116)**	**0.53**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
	95	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
	92	(63 - 129)
Toluene-d8	104	(74 - 115)
	102	(74 - 115)
4-Bromofluorobenzene	99	(66 - 117)
	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR3W1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D080647-003 MGR3W1AF-MSD
Date Sampled...: 04/07/11 **Date Received..:** 04/08/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104059
Dilution Factor: 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**63 DIL**	**(10 - 200)**			**SW846 8270C**
	73 DIL	**(10 - 200)**	**9.4**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**61 DIL**	**(33 - 110)**			**SW846 8270C**
	67 DIL	**(33 - 110)**	**9.9**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**61 DIL**	**(10 - 200)**			**SW846 8270C**
	67 DIL	**(10 - 200)**	**8.6**	**(0-30)**	**SW846 8270C**
Anthracene	**66 DIL**	**(10 - 200)**			**SW846 8270C**
	102 DIL	**(10 - 200)**	**22**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**131 DIL**	**(10 - 200)**			**SW846 8270C**
	182 DIL	**(10 - 200)**	**6.5**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**56 DIL**	**(42 - 118)**			**SW846 8270C**
	56 DIL	**(42 - 118)**	**0.05**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**121 DIL**	**(10 - 200)**			**SW846 8270C**
	148 DIL	**(10 - 200)**	**2.8**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**285 DIL,a**	**(10 - 200)**			**SW846 8270C**
	112 DIL	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**129 DIL**	**(10 - 200)**			**SW846 8270C**
	137 DIL	**(10 - 200)**	**0.95**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**48 DIL**	**(30 - 121)**			**SW846 8270C**
	47 DIL	**(30 - 121)**	**3.4**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**203 DIL,a**	**(10 - 200)**			**SW846 8270C**
	59 DIL	**(10 - 200)**	**23**	**(0-30)**	**SW846 8270C**
Chrysene	**144 DIL**	**(10 - 200)**			**SW846 8270C**
	192 DIL	**(10 - 200)**	**4.4**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**62 DIL**	**(26 - 110)**			**SW846 8270C**
	60 DIL	**(26 - 110)**	**3.7**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**227 DIL,a**	**(10 - 200)**			**SW846 8270C**
	220 DIL,a	**(10 - 200)**	**3.6**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**0.0 DIL,a**	**(10 - 182)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 182)**	**0.0**	**(0-30)**	**SW846 8270C**
Fluoranthene	**275 DIL,a**	**(10 - 200)**			**SW846 8270C**
	429 DIL,a	**(10 - 200)**	**7.5**	**(0-30)**	**SW846 8270C**
Fluorene	**62 DIL**	**(10 - 187)**			**SW846 8270C**
	81 DIL	**(10 - 187)**	**19**	**(0-30)**	**SW846 8270C**
Phenol	**46 DIL**	**(10 - 144)**			**SW846 8270C**
	55 DIL	**(10 - 144)**	**17**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR3W1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D080647-003 MGR3W1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**127 DIL**	**(10 - 200)**			**SW846 8270C**
	125 DIL	**(10 - 200)**	**0.44**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**58 DIL**	**(32 - 110)**			**SW846 8270C**
	55 DIL	**(32 - 110)**	**6.3**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	71 DIL	(10 - 130)			SW846 8270C
	80 DIL	(10 - 130)	12	(0-30)	SW846 8270C
2-Methylnaphthalene	**82 DIL**	**(10 - 200)**			**SW846 8270C**
	89 DIL	**(10 - 200)**	**7.4**	**(0-30)**	**SW846 8270C**
4-Chloro-3-methylphenol	**40 DIL**	**(32 - 117)**			**SW846 8270C**
	0.0	**(32 - 117)**	**200**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Naphthalene	**73 DIL**	**(10 - 200)**			**SW846 8270C**
	78 DIL	**(10 - 200)**	**6.7**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**0.0 DIL,a**	**(10 - 125)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 125)**	**0.0**	**(0-30)**	**SW846 8270C**
Phenanthrene	**123 DIL**	**(10 - 200)**			**SW846 8270C**
	260 DIL,a	**(10 - 200)**	**18**	**(0-30)**	**SW846 8270C**
Pyrene	**189 DIL**	**(10 - 200)**			**SW846 8270C**
	321 DIL,a	**(10 - 200)**	**8.7**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**62 DIL**	**(36 - 110)**			**SW846 8270C**
	59 DIL	**(36 - 110)**	**5.7**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**62 DIL**	**(32 - 118)**			**SW846 8270C**
	57 DIL	**(32 - 118)**	**9.6**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**60 DIL**	**(25 - 124)**			**SW846 8270C**
	67 DIL	**(25 - 124)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**73 DIL**	**(10 - 200)**			**SW846 8270C**
	75 DIL	**(10 - 200)**	**1.1**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**66 DIL**	**(44 - 120)**			**SW846 8270C**
	65 DIL	**(44 - 120)**	**1.9**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**73 DIL**	**(43 - 138)**			**SW846 8270C**
	79 DIL	**(43 - 138)**	**7.1**	**(0-30)**	**SW846 8270C**
Carbazole	**70 DIL**	**(10 - 162)**			**SW846 8270C**
	86 DIL	**(10 - 162)**	**11**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR3W1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D080647-003 MGR3W1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	0.0 DIL,a	(11 - 110)			SW846 8270C
	0.0 DIL,a	(11 - 110)	0.0	(0-30)	SW846 8270C
2-Chloronaphthalene	**61 DIL**	**(40 - 110)**			**SW846 8270C**
	65 DIL	**(40 - 110)**	**5.4**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**32 DIL,a**	**(47 - 116)**			**SW846 8270C**
	33 DIL,a	**(47 - 116)**	**4.1**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**80 DIL**	**(10 - 200)**			**SW846 8270C**
	91 DIL	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**69 DIL**	**(31 - 145)**			**SW846 8270C**
	73 DIL	**(31 - 145)**	**5.5**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**62 DIL**	**(29 - 110)**			**SW846 8270C**
	65 DIL	**(29 - 110)**	**3.1**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**62 DIL**	**(29 - 110)**			**SW846 8270C**
	63 DIL	**(29 - 110)**	**0.90**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dichlorophenol	**0.0 DIL,a**	**(33 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**63 DIL**	**(48 - 118)**			**SW846 8270C**
	68 DIL	**(48 - 118)**	**6.4**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**61 DIL**	**(19 - 114)**			**SW846 8270C**
	32 DIL,p	**(19 - 114)**	**61**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**63 DIL**	**(47 - 116)**			**SW846 8270C**
	69 DIL	**(47 - 116)**	**9.6**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dinitrophenol	310 DIL,a	(10 - 110)			SW846 8270C
	310 DIL,a	(10 - 110)	0.47	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**54 DIL**	**(28 - 137)**			**SW846 8270C**
	64 DIL	**(28 - 137)**	**17**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**56 DIL**	**(10 - 182)**			**SW846 8270C**
	60 DIL	**(10 - 182)**	**6.8**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**61 DIL**	**(37 - 122)**			**SW846 8270C**
	63 DIL	**(37 - 122)**	**1.9**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**61 DIL**	**(30 - 110)**			**SW846 8270C**
	69 DIL	**(30 - 110)**	**11**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR3W1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D080647-003 MGR3W1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**53 DIL**	**(13 - 110)**			**SW846 8270C**
	59 DIL	**(13 - 110)**	**9.7**	**(0-30)**	**SW846 8270C**
Isophorone	**59 DIL**	**(32 - 129)**			**SW846 8270C**
	54 DIL	**(32 - 129)**	**8.9**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**43 DIL**	**(19 - 124)**			**SW846 8270C**
	43 DIL	**(19 - 124)**	**0.80**	**(0-30)**	**SW846 8270C**
4-Methylphenol	36 DIL	(27 - 116)			SW846 8270C
	31 DIL	(27 - 116)	18	(0-30)	SW846 8270C
2-Nitroaniline	**70 DIL**	**(31 - 141)**			**SW846 8270C**
	0.0	**(31 - 141)**	**200**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
3-Nitroaniline	**0.0 DIL,a**	**(24 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(24 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**7.8 DIL,a**	**(23 - 124)**			**SW846 8270C**
	0.0	**(23 - 124)**	**200**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Nitrobenzene	**51 DIL**	**(33 - 111)**			**SW846 8270C**
	55 DIL	**(33 - 111)**	**7.5**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**43 DIL**	**(17 - 110)**			**SW846 8270C**
	34 DIL	**(17 - 110)**	**23**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62 DIL**	**(10 - 169)**			**SW846 8270C**
	67 DIL	**(10 - 169)**	**7.8**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**0.0 DIL,a**	**(32 - 112)**			**SW846 8270C**
	42 DIL,p	**(32 - 112)**	**200**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**84 DIL**	**(22 - 110)**			**SW846 8270C**
	80 DIL	**(22 - 110)**	**5.3**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 DIL,a	(10 - 200)			SW846 8270C
	0.0 DIL,a	(10 - 200)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	34 DIL	(10 - 110)			SW846 8270C
	37 DIL	(10 - 110)	8.2	(0-30)	SW846 8270C
Pyridine	21 DIL	(10 - 110)			SW846 8270C
	25 DIL	(10 - 110)	16	(0-30)	SW846 8270C
Atrazine	81 DIL	(50 - 130)			SW846 8270C
	85 DIL	(50 - 130)	4.5	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGR3W1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D080647-003 MGR3W1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetophenone	56 DIL	(50 - 130)			SW846 8270C
	51 DIL	(50 - 130)	11	(0-30)	SW846 8270C
1,1'-Biphenyl	64 DIL	(50 - 130)			SW846 8270C
	67 DIL	(50 - 130)	4.4	(0-30)	SW846 8270C
Caprolactam	21 DIL,a	(50 - 130)			SW846 8270C
	10	(50 - 130)	71	(0-30)	SW846 8270C
	Qualifiers: DIL,a,p				
Aniline	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzyl alcohol	25 DIL	(10 - 130)			SW846 8270C
	15 DIL,p	(10 - 130)	51	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**59 DIL**	**(10 - 130)**			**SW846 8270C**
	64 DIL	**(10 - 130)**	**7.8**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	81 DIL	(10 - 130)			SW846 8270C
	93 DIL	(10 - 130)	13	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	29 DIL	(10 - 130)			SW846 8270C
	0.0	(10 - 130)	200	(0-30)	SW846 8270C
	Qualifiers: DIL,a,p				
Benzaldehyde	80 DIL	(10 - 130)			SW846 8270C
	83 DIL	(10 - 130)	4.2	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58 DIL	(24 - 112)
	62 DIL	(24 - 112)
2-Fluorobiphenyl	60 DIL	(34 - 110)
	59 DIL	(34 - 110)
Terphenyl-d14	70 DIL	(41 - 119)
	69 DIL	(41 - 119)
Phenol-d5	52 DIL	(28 - 110)
	48 DIL	(28 - 110)
2-Fluorophenol	63 DIL	(26 - 110)
	65 DIL	(26 - 110)
2,4,6-Tribromophenol	44 DIL	(10 - 118)
	45 DIL	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGVK11AV-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-005 MGVK11AW-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1 **% Moisture.....:** 15

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**63 a**	**(70 - 130)**			**SW846 8015B**
	46 a	**(70 - 130)**	**4.6**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	53	(10 - 110)
	47	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D080647 **Work Order #...:** MGQC01AQ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D080432-001 MGQC01AR-MSD
Date Sampled...: 04/07/11 09:15 **Date Received..:** 04/08/11
Prep Date.....: 04/12/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1102041
Dilution Factor: 1 **% Moisture.....:** 22

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**88**	**(10 - 199)**			**SW846 8082**
	105	**(10 - 199)**	**17**	**(0-30)**	**SW846 8082**
Aroclor 1260	**78**	**(10 - 199)**			**SW846 8082**
	87	**(10 - 199)**	**9.8**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	61	(10 - 196)
	74	(10 - 196)
Decachlorobiphenyl	81	(10 - 199)
	89	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D080647 **Matrix.....:** SOLID
Date Sampled...: 04/07/11 08:50 **Date Received..:** 04/08/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D080597-001 **Prep Batch #...:** 1102020						**% Moisture.....:** 12	
Arsenic	88	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51A4
	88	(75 - 125)	0.79	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51A5
		Dilution Factor: 1					
Lead	88	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51CA
	89	(75 - 125)	0.68	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51CC
		Dilution Factor: 1					
Barium	89	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51CM
	91	(75 - 125)	1.7	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51CN
		Dilution Factor: 1					
Selenium	89	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51CD
	89	(75 - 125)	0.43	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51CE
		Dilution Factor: 1					
Cadmium	86	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51C1
	84	(75 - 125)	1.4	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51C2
		Dilution Factor: 1					
Chromium	80	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51C4
	81	(75 - 125)	0.95	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51C5
		Dilution Factor: 1					
Silver	90	(75 - 125)			SW846 6010B	04/12-04/18/11	MGRM51C7
	90	(75 - 125)	0.02	(0-20)	SW846 6010B	04/12-04/18/11	MGRM51C8
		Dilution Factor: 1					
Mercury	101	(11 - 192)			SW846 7471A	04/12-04/13/11	MGRM51CW
	100	(11 - 192)	0.32	(0-20)	SW846 7471A	04/12-04/13/11	MGRM51CX
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D080647 **Work Order #...:** MGR33-SMP **Matrix.....:** SO
MGR33-DUP
Date Sampled...: 04/06/11 12:12 **Date Received..:** 04/08/11
% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D080647-008		
	84.7	85.0	%	0.35	(0-20)	MCAWW 160.3 MOD	04/12-04/13/11	1102313

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D080647 **Work Order #...:** MGR34-SMP **Matrix.....:** SO
MGR34-DUP
Date Sampled...: 04/06/11 14:30 **Date Received..:** 04/08/11
% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D080647-009		
	87.4	88.0	%	0.69	(0-20)	MCAWW 160.3 MOD	04/12-04/13/11	1102313

Dilution Factor: 1

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Guy Montfort	Site Contact:	Lab Contact: Denise Pohl	COC No: 019547
Address: 250 W Court #200W	Telephone:	Telephone:	Telephone:	1 of 2 COCs
City/State/Zip: Cinci 45202	Email: Guy.Montfort@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 513 333 3666	Method of Shipment/Carrier: fedex	TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab picking: ☐ Lab shipping: ☐
Project Name: Mansfield	Shipping/Tracking No:			Job/SDG No:
Project Number:				
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	BAT X	PCB	VOC	Ethylene glyc	Meth LSV	Sample Specific Notes / Special Instructions:
GW52-HAZ-0411	4-7	1257		X									X		N	G	X					
GW52-HAZ-0411		1454		X						Y			X					X	X			
SDDUP01		—			X								X				X		X	X		
SD02-SSA-0411		1420			X								X				X		X	X		
SD01-SSA-0411		1403			X								X				X		X	X		
SD03-SSA-0411	↓	1438			X								X				X		X	X		
SB54-LAN-5-0411	4-6	1515				X							X				X	X	X		X	
SB52-LAN-25-0411		1212				X							X				X	X	X		X	
SB53-LAN-22-0411		1430				X							X				X	X	X		X	
SB51-LAN-25-0411	↓	1058				X							X				X	X	X		X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT	4/7 @ 1725			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/8/11 915

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019548
Address:	Telephone:	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below _____		Walk-in client: ☐
Project Name: Mansfield	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup: ☐
Project Number:	Shipping/Tracking No:			Lab shipping: ☐
P O #				Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite (C) / Grab (G)	VOC	PAH	Metals	PCB	TPH DRO GRO						Sample Specific Notes / Special Instructions:
SB103-HAZ-5-0411	4-7	0931				X							X		N	G	X	X	X	X							
SB103-HAZ-10-0411	↓	0940				X							X				X	X	X	X							
SB104-HAZ-15-0411		1112				X							X				X	X	X	X							
SB21-FTF-20-0411		1558				X							X				X	X			X						
Trip Blank	↓	1721		X						X							X										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: [signature]	Company: TT	Date/Time: 4/7 @ 1725	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/8/11 915

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TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A1D080647
North Canton Facility

Client Tetra Tech Project Mars Field By: (Signature)
Cooler Received on 4-8-11 Opened on 4-8-11
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # Multiple Coolers ☑ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☑ Intact? Yes ☐ No ☐ NA ☑
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☑
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt °C See back of form for multiple coolers/temps ☑
   METHOD: IR ☑ Other ☐ BAC
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A661	2.4	IR	Ice
L946	2.8	1	1

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

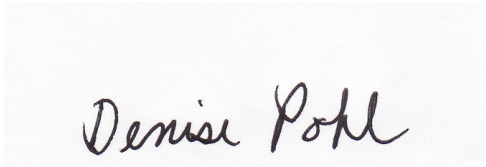
MANSFIELD STAMPING PLANT

Lot #: A1D080648

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
4/29/2011 1:53 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

April 29, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D080648

The following report contains the analytical results for four solid samples submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site. The samples were received April 08, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

The 8015 Ethylene Glycol and 160.3 Total Solids analyses were performed at the TestAmerica Dayton Laboratory. A copy of their report has been included.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 13, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.8 and 2.4°C.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact	Chain Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: Tetra Tech	Guy Montfort		Denise Pohl	019547
Address: 250 W Court #200W	Telephone:	Telephone:	Telephone:	1 of 2 COCs
City/State/Zip: Cinci 45202	Email: Guy.Montfort@TetraTech.com	Analysis Turnaround Time (in BUSINESS days)	Analyses	For lab use only
Phone: 5733333666	Method of Shipment/Carrier: fedex	TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab sampling: ☐ Job/SDG No.:
Project Name: Manfield	Shipping/Tracking No:			
Project Number:				
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	MS/MSD (Y/N)	BTEX	PCB	VOC	Ethylene glyc	Methane	Sample Specific Notes / Special Instructions:
GW52-HAZ-0411	4-7	1257		X									X		N	C	X					
GW52-HAZ-0411		1454		X						Y			X					X	X			
SDDUP01		—			X								X				X		X	X		
SD02-SSA-0411		1420			X								X				X		X	X		
SD01-SSA-0411		1403			X								X				X		X	X		
SD03-SSA-0411	↓	1438			X								X				X		X	X		
SB54-LAN-5-0411	4-6	1515				X							X				X	X	X		X	
SB52-LAN-25-0411		1212				X							X				X	X	X		X	
SB53-LAN-22-0411		1430				X							X				X	X	X		X	
SB51-LAN-25-0411	↓	1058				X							X				X	X	X		X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
VFOWLER	TT	4/7 @ 1725			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	4/8/11 915

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Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019548
Company Name: Tetra Tech				2 of 2 COCs
Address:	Telephone:	Telephone:	Telephone:	
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only: Walk-in client: ☐ Lab pickup: ☐ Lab courier: ☐
Phone:		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: Mansfield	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite/Grab	VOC	PAH	Metals	PCB	TPH DRO 6RO						Sample Specific Notes / Special Instructions:
SB103-HAZ-50411	4-7	0931				X							X		N	G	X	X	X	X							
SB103-HAZ-10-0411		0940				X							X				X	X	X	X							
SB104-HAZ-15-0411		1112				X							X				X	X	X	X							
SB21-FTF-20-0411		1558				X							X				X	X			X						
Trip Blank	↓	1721		X						X							X										

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT	4/7 @ 1625			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	4/8/11 915

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TAL 0018-1 (04/10)

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: A1D080648

Client Tetra Tech Project Mansfield By: _____
Cooler Received on 4-8-11 Opened on 4-8-11 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ _____ BAC
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica
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DAYTON DATA

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

April 20, 2011

Client:

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720

Attn: Denise Pohl

Work Order: DUD0531
Project Name: Ohio EPA
Project Number: A1D080648

Date Received: 04/12/11

Samples logged in at Dayton laboratory.

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
SDDUP01	DUD0531-01	04/07/11
SD02-SSA-0411	DUD0531-02	04/07/11 14:20
SD01-SSA-0411	DUD0531-03	04/07/11 14:03
SD03-SSA-0411	DUD0531-04	04/07/11 14:38

Ohio Certification Number: 4074, 857

Reproduction of this analytical report is permitted only in its entirety. This report shall not be reproduced except in full without the written approval of the laboratory.

TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Report Approved By:

Taryn Mancine

This report has been electronically signed.

TestAmerica Dayton
Taryn Mancine For Deborah Olszowka
Dayton Senior Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-01 (SDDUP01 - Non-aqueous)					**Sampled: 04/07/11**			**Recvd: 04/12/11 09:15**	
General Chemistry Parameters									
Dry Weight	**74.7**		%	0.100	1	04/13/11 13:30	jlb	11D0480	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-01 (SDDUP01 - Non-aqueous) - cont.						**Sampled: 04/07/11**			**Recvd: 04/12/11 09:15**	
General Chemistry Parameters - cont.										
Ethylene glycol	<1.17		mg/kg dry	1.17	5.84	1	04/15/11 20:51	cm	11D0602	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*102 %*						04/15/11 20:51	cm	11D0602	SW 8015m

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4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-02 (SD02-SSA-0411 - Non-aqueous)					**Sampled: 04/07/11 14:20**			**Recvd: 04/12/11 09:15**	
General Chemistry Parameters									
Dry Weight	**66.9**		%	0.100	1	04/13/11 13:30	jlb	11D0480	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-02 (SD02-SSA-0411 - Non-aqueous) - cont.						**Sampled: 04/07/11 14:20**			**Recvd: 04/12/11 09:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.48		mg/kg dry	1.48	7.38	1	04/15/11 21:15	cm	11D0602	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*93 %*						04/15/11 21:15	cm	11D0602	SW 8015m

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4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-03 (SD01-SSA-0411 - Non-aqueous)					**Sampled: 04/07/11 14:03**			**Recvd: 04/12/11 09:15**	
General Chemistry Parameters									
Dry Weight	**46.8**		%	0.100	1	04/13/11 15:03	jlb	11D0486	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-03 (SD01-SSA-0411 - Non-aqueous) - cont.						**Sampled: 04/07/11 14:03**			**Recvd: 04/12/11 09:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.79		mg/kg dry	1.79	8.97	1	04/15/11 21:38	cm	11D0602	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*89 %*						04/15/11 21:38	cm	11D0602	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-04 (SD03-SSA-0411 - Non-aqueous)					**Sampled: 04/07/11 14:38**			**Recvd: 04/12/11 09:15**	
General Chemistry Parameters									
Dry Weight	**72.6**		%	0.100	1	04/13/11 15:03	jlb	11D0486	SW 846

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0531-04 (SD03-SSA-0411 - Non-aqueous) - cont.						**Sampled: 04/07/11 14:38**			**Recvd: 04/12/11 09:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.19		mg/kg dry	1.19	5.94	1	04/15/11 22:02	cm	11D0602	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*100 %*						04/15/11 22:02	cm	11D0602	SW 8015m

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0602			mg/kg wet	0.926	4.63	<0.926							
Surrogate: 1,4-Butanediol	*11D0602*			mg/kg wet					*107*		*70-130*			

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North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: DUD0458-01													
Dry Weight	11D0480	84.2		%	N/A	0.100	86.3				3	10	
QC Source Sample: DUD0458-17													
Dry Weight	11D0480	82.1		%	N/A	0.100	83.3				1	10	
QC Source Sample: DUD0531-03													
Dry Weight	11D0486	46.8		%	N/A	0.100	47.0				0	10	
QC Source Sample: DUD0550-01													
Dry Weight	11D0486	87.5		%	N/A	0.100	86.6				1	10	

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0602		24.4	mg/kg wet	0.976	4.88	26.3		108		56-128			
Surrogate: 1,4-Butanediol	*11D0602*			mg/kg wet					*122*		*70-130*			

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339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0531
Project: Ohio EPA
Project Number: A1D080648

Received: 04/12/11
Reported: 04/20/11 14:31

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
QC Source Sample: DUD0531-01														
Ethylene glycol	11D0602	<1.168936	33.6	mg/kg dry	1.34	6.71	30.6	32.6	91	107	56-128	6	25	
Surrogate: 1,4-Butanediol	*11D0602*			mg/kg dry					*92*	*110*	*70-130*			

TestAmerica North Canton 4101 Shuffel Dr. NW North Canton, OH 44720 Denise Pohl	Work Order: Project: Project Number:	DUD0531 Ohio EPA A1D080648		Received: Reported:	04/12/11 04/20/11 14:31

CERTIFICATION SUMMARY

Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

DATA QUALIFIERS AND DEFINITIONS

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

DuD0531

TestAmerica Laboratories, Inc.

SAMPLE ANALYSIS REQUISTION

Laboratory: TestAmerica Dayton
4738 Gateway Circle
DAYTON, OH 45440

Lab Request: SR126451

Report Package: Report

Need Analytical Report: 2011-04-22

Client Code: 1431917

Project Manager: DENISE POHL

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A1D080648-1	MGR4C	SDDUP01	2011-04-07	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D080648-2	MGR4D	SD02-SSA-0411	2011-04-07 14:20	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D080648-3	MGR4E	SD01-SSA-0411	2011-04-07 14:03	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D080648-4	MGR4F	SD03-SSA-0411	2011-04-07 14:38	SOLID, 8015 mod, Ethylene Glycol- DAYTON

Please use Client Sample ID for report

Call DENISE POHL with questions at 330-497-9396

at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 4/11/11 0800

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 4/12/11 09:15

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S
☐ Discrepancies Client ID TA-North Canton
☐ Short Hold Work Order # DWD0531
☐ Rush ☐24hr ☐2day ☐3day ☐5day ☐other
Receipt evaluation performed by - Initials: JMT Date: 4/12/11 Time: 09:15

Method of Shipment:
☐ Walk-In Client ☐ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier
☑ Fed Ex Tracking # 9784 4675 8764
☐ UPS Tracking #
☐ Other

Shipping Container Type:
☑ Cooler ☐ Box
☐ None ☐ Other
Packing Materials:
☐ Plastic Bags ☐ Foam
☑ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other

Custody Seals Intact:
☑ Yes ☐ No
☐ N/A (not used or required)
Cooling Materials:
☑ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other

Are there any soil samples from areas requiring USDA quarantine? *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☑ **No** ☐ **Yes** (If Yes, *Project Manager must be notified).*

☐ **Check If Additional Sheets Required**

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Received on same day sampled?	Acceptable?*	Cooler ID	Note Affected Samples if temperature not acceptable
G	1.2	0.7	☐	☐	☐Yes ☑No	☐Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, **but not frozen.** For additional information, please refer to SOP DT-SCA-004 ***Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements***.

Receipt Questions**	Y	N	n/a	"No" answers require additional comment
COC present & TA receipt signature, date, & time properly documented?	✓			
Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)*	✓			
Appropriate containers used & adequate volume provided?	✓			
Number of sample containers match COC?	✓			
Samples received within hold time?	✓			
Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace?			✓	
Was a Trip Blank received with VOA samples?			✓	
Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.)	✓			
Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	✓			

** May not be applicable if samples are not for compliance testing

Client Contact Record
Contact via: ☐ Phone ☐ Email ☐ Other **Person Contacted:** **Date/Time:**
☐ Discrepancy allowance agreement is on record in the client project file.
Discussion/Resolution:

Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.

dmo 4/12/11
Reviewed by PM Signature Date

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

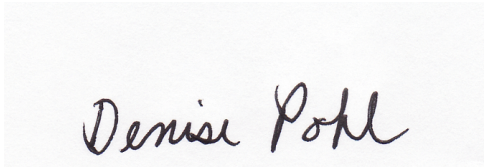
MANSFIELD STAMPING

Lot #: A1D110474

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/26/2011 2:25 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 23, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D110474

The following report contains the analytical results for six solid samples, one water sample and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING Site. The samples were received April 09, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnapthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 25, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.5°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SB23-FTF-1012-0411 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Sample(s) SB22-FTF-2022-0411 and SB23-FTF-7510-0411 were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 1108356. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate(s) for SB23-FTF-1012-0411 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

No corrective action was taken for the 4-Chlorophenyl phenyl ether failure for the LCS associated with batch 1105041 due to questionable analyte concentration in calibration. If a hit for this analyte was detected, further corrective action would be required.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D110474

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SBDUP2 04/08/11 001				
C20-C34	53	21	mg/kg	SW846 8015B
C10-C20	17 J	21	mg/kg	SW846 8015B
1-Methylnaphthalene	16	8.3	ug/kg	SW846 8270C
2-Methylnaphthalene	12	8.3	ug/kg	SW846 8270C
Phenanthrene	11	8.3	ug/kg	SW846 8270C
Acetone	69 B	25	ug/kg	SW846 8260A
2-Butanone	7.9 J	25	ug/kg	SW846 8260A
2-Hexanone	1.0 J,B	25	ug/kg	SW846 8260A
Methylene chloride	4.4 J,B	6.2	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	0.51 J,B	6.2	ug/kg	SW846 8260A
Percent Solids	80.5	10.0	%	MCAWW 160.3 MOD
SB23-FTF-7510-0411 04/08/11 11:05 002				
C20-C34	120	19	mg/kg	SW846 8015B
C10-C20	67	19	mg/kg	SW846 8015B
Gasoline Range Organics (C6-C12)	55 J	120	ug/kg	SW846 8015A MOD
Chrysene	11	7.8	ug/kg	SW846 8270C
1-Methylnaphthalene	25	7.8	ug/kg	SW846 8270C
2-Methylnaphthalene	22	7.8	ug/kg	SW846 8270C
Phenanthrene	27	7.8	ug/kg	SW846 8270C
Acetone	31 B	23	ug/kg	SW846 8260A
2-Butanone	3.0 J	23	ug/kg	SW846 8260A
Methylene chloride	5.6 J,B	5.8	ug/kg	SW846 8260A
Percent Solids	85.6	10.0	%	MCAWW 160.3 MOD
SB22-FTF-2022-0411 04/08/11 10:12 003				
C20-C34	110	19	mg/kg	SW846 8015B
C10-C20	79	19	mg/kg	SW846 8015B
Benzo(ghi)perylene	22	7.7	ug/kg	SW846 8270C
Chrysene	20	7.7	ug/kg	SW846 8270C
1-Methylnaphthalene	37	7.7	ug/kg	SW846 8270C
2-Methylnaphthalene	54	7.7	ug/kg	SW846 8270C
Naphthalene	9.3	7.7	ug/kg	SW846 8270C
Phenanthrene	30	7.7	ug/kg	SW846 8270C
Pyrene	14	7.7	ug/kg	SW846 8270C
Acetone	19 J,B	23	ug/kg	SW846 8260A
Carbon disulfide	0.98 J	5.8	ug/kg	SW846 8260A
Methylene chloride	3.9 J,B	5.8	ug/kg	SW846 8260A
Percent Solids	86.9	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D110474

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB22-FTF-1520-0411 04/08/11 10:00 004				
C20-C34	160	19	mg/kg	SW846 8015B
C10-C20	100	19	mg/kg	SW846 8015B
Chrysene	9.1	7.5	ug/kg	SW846 8270C
1-Methylnaphthalene	19	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	16	7.5	ug/kg	SW846 8270C
Phenanthrene	18	7.5	ug/kg	SW846 8270C
Pyrene	8.7	7.5	ug/kg	SW846 8270C
Acetone	66 B	23	ug/kg	SW846 8260A
2-Butanone	9.4 J	23	ug/kg	SW846 8260A
Carbon disulfide	1.5 J	5.7	ug/kg	SW846 8260A
Methylene chloride	7.4 B	5.7	ug/kg	SW846 8260A
Percent Solids	88.4	10.0	%	MCAWW 160.3 MOD
SB23-FTF-1012-0411 04/08/11 11:15 005				
C20-C34	170	20	mg/kg	SW846 8015B
C10-C20	140	20	mg/kg	SW846 8015B
Chrysene	18	7.9	ug/kg	SW846 8270C
1-Methylnaphthalene	22	7.9	ug/kg	SW846 8270C
2-Methylnaphthalene	23	7.9	ug/kg	SW846 8270C
Phenanthrene	25	7.9	ug/kg	SW846 8270C
Pyrene	11	7.9	ug/kg	SW846 8270C
Acetone	16 J,B	24	ug/kg	SW846 8260A
Methylene chloride	4.4 J,B	5.9	ug/kg	SW846 8260A
Percent Solids	84.7	10.0	%	MCAWW 160.3 MOD
SB44-OLD-1720-0411 04/08/11 14:52 006				
C20-C34	21	19	mg/kg	SW846 8015B
Acetone	120 B	23	ug/kg	SW846 8260A
2-Butanone	10 J	23	ug/kg	SW846 8260A
Methylene chloride	4.9 J,B	5.8	ug/kg	SW846 8260A
Percent Solids	86.9	10.0	%	MCAWW 160.3 MOD
GW22-FTF-0411 04/08/11 14:18 007				
Acetone	1.8 J	10	ug/L	SW846 8260B
TRIP BLANK 04/08/11 14:53 008				
Acetone	1.9 J	10	ug/L	SW846 8260B
Bromodichloromethane	2.7	1.0	ug/L	SW846 8260B
2-Butanone	0.58 J	10	ug/L	SW846 8260B

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EXECUTIVE SUMMARY - Detection Highlights

A1D110474

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TRIP BLANK 04/08/11 14:53 008				
Dibromochloromethane	0.56 J	1.0	ug/L	SW846 8260B
Chloroform	8.6	1.0	ug/L	SW846 8260B
Toluene	1.0	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D110474

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D110474

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MGVKL	001	SBDUP2	04/08/11	
MGVKT	002	SB23-FTF-7510-0411	04/08/11	11:05
MGVKX	003	SB22-FTF-2022-0411	04/08/11	10:12
MGVK0	004	SB22-FTF-1520-0411	04/08/11	10:00
MGVK1	005	SB23-FTF-1012-0411	04/08/11	11:15
MGVK8	006	SB44-OLD-1720-0411	04/08/11	14:52
MGVK9	007	GW22-FTF-0411	04/08/11	14:18
MGVLC	008	TRIP BLANK	04/08/11	14:53

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

GC/MS Volatiles

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL1AE **Matrix.....:** SO
Date Sampled...: 04/08/11 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**69 B**	**25**	**ug/kg**	**7.8**
Benzene	ND	6.2	ug/kg	0.29
Bromodichloromethane	ND	6.2	ug/kg	0.35
Bromoform	ND	6.2	ug/kg	0.41
Bromomethane	ND	12	ug/kg	0.67
2-Butanone	**7.9 J**	**25**	**ug/kg**	**1.7**
Carbon disulfide	ND	6.2	ug/kg	0.55
Carbon tetrachloride	ND	6.2	ug/kg	0.46
Chlorobenzene	ND	6.2	ug/kg	0.41
Dibromochloromethane	ND	6.2	ug/kg	0.68
Chloroethane	ND	12	ug/kg	1.1
Chloroform	ND	6.2	ug/kg	0.36
Chloromethane	ND	12	ug/kg	0.51
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.6
1,2-Dibromoethane	ND	6.2	ug/kg	0.62
1,2-Dichlorobenzene	ND	6.2	ug/kg	0.45
1,3-Dichlorobenzene	ND	6.2	ug/kg	0.44
1,4-Dichlorobenzene	ND	6.2	ug/kg	0.82
Dichlorodifluoromethane	ND	12	ug/kg	0.62
1,1-Dichloroethane	ND	6.2	ug/kg	0.45
1,2-Dichloroethane	ND	6.2	ug/kg	0.42
cis-1,2-Dichloroethene	ND	3.1	ug/kg	0.45
trans-1,2-Dichloroethene	ND	3.1	ug/kg	0.51
1,1-Dichloroethene	ND	6.2	ug/kg	0.65
1,2-Dichloropropane	ND	6.2	ug/kg	0.86
cis-1,3-Dichloropropene	ND	6.2	ug/kg	0.42
trans-1,3-Dichloropropene	ND	6.2	ug/kg	0.67
Ethylbenzene	ND	6.2	ug/kg	0.32
n-Hexane	ND	6.2	ug/kg	1.5
2-Hexanone	**1.0 J,B**	**25**	**ug/kg**	**0.78**
Isopropylbenzene	ND	6.2	ug/kg	0.20
Methylene chloride	**4.4 J,B**	**6.2**	**ug/kg**	**0.83**
4-Methyl-2-pentanone	ND	25	ug/kg	0.67
Methyl tert-butyl ether (MTBE)	ND	25	ug/kg	0.53
Styrene	ND	6.2	ug/kg	0.19
1,1,2,2-Tetrachloroethane	ND	6.2	ug/kg	0.42

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Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

GC/MS Volatiles

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.2	ug/kg	0.65
Toluene	ND	6.2	ug/kg	0.34
1,2,4-Trichloro-benzene	**0.51 J,B**	**6.2**	**ug/kg**	**0.34**
1,1,1-Trichloroethane	ND	6.2	ug/kg	0.70
1,1,2-Trichloroethane	ND	6.2	ug/kg	0.48
Trichloroethene	ND	6.2	ug/kg	0.52
Trichlorofluoromethane	ND	12	ug/kg	0.42
Vinyl chloride	ND	2.5	ug/kg	0.48
Xylenes (total)	ND	6.2	ug/kg	0.83

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	92	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL1AG **Matrix.....:** SO
Date Sampled...: 04/08/11 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.3	ug/kg	4.1
Acenaphthylene	ND	8.3	ug/kg	4.1
Anthracene	ND	8.3	ug/kg	4.1
Benzo(a)anthracene	ND	8.3	ug/kg	4.1
Benzo(a)pyrene	ND	8.3	ug/kg	4.1
Benzo(b)fluoranthene	ND	8.3	ug/kg	4.1
Benzo(ghi)perylene	ND	8.3	ug/kg	4.1
Benzo(k)fluoranthene	ND	8.3	ug/kg	4.1
Chrysene	ND	8.3	ug/kg	1.4
Dibenz(a,h)anthracene	ND	8.3	ug/kg	4.1
Fluoranthene	ND	8.3	ug/kg	4.1
Fluorene	ND	8.3	ug/kg	4.1
Indeno(1,2,3-cd)pyrene	ND	8.3	ug/kg	4.1
1-Methylnaphthalene	**16**	**8.3**	**ug/kg**	**4.1**
2-Methylnaphthalene	**12**	**8.3**	**ug/kg**	**4.1**
Naphthalene	ND	8.3	ug/kg	4.1
Phenanthrene	**11**	**8.3**	**ug/kg**	**4.1**
Pyrene	ND	8.3	ug/kg	4.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	50	(24 - 112)
2-Fluorobiphenyl	44	(34 - 110)
Terphenyl-d14	58	(41 - 119)
Phenol-d5	46	(28 - 110)
2-Fluorophenol	55	(26 - 110)
2,4,6-Tribromophenol	39	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

GC Volatiles

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL1AA **Matrix.....:** SO
Date Sampled...: 04/08/11 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	57

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

GC Semivolatiles

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL1AC **Matrix.....:** SO
Date Sampled...: 04/08/11 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**53**	**21**	**mg/kg**	**12**
C10-C20	**17 J**	**21**	**mg/kg**	**12**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	38	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP2

General Chemistry

Lot-Sample #...: A1D110474-001 **Work Order #...:** MGVKL **Matrix.....:** SO
Date Sampled...: 04/08/11 **Date Received..:** 04/09/11
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**80.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT1AE **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**31 B**	**23**	**ug/kg**	**7.4**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.33
Bromoform	ND	5.8	ug/kg	0.39
Bromomethane	ND	12	ug/kg	0.63
2-Butanone	**3.0 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	ND	5.8	ug/kg	0.51
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.39
Dibromochloromethane	ND	5.8	ug/kg	0.64
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.8	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.42
1,2-Dichloroethane	ND	5.8	ug/kg	0.40
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.48
1,1-Dichloroethene	ND	5.8	ug/kg	0.61
1,2-Dichloropropane	ND	5.8	ug/kg	0.81
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.63
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.74
Isopropylbenzene	ND	5.8	ug/kg	0.19
Methylene chloride	**5.6 J,B**	**5.8**	**ug/kg**	**0.78**
4-Methyl-2-pentanone	ND	23	ug/kg	0.63
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.50
Styrene	ND	5.8	ug/kg	0.18
Tetrachloroethene	ND	5.8	ug/kg	0.61
Toluene	ND	5.8	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.46
Trichloroethene	ND	5.8	ug/kg	0.49
Trichlorofluoromethane	ND	12	ug/kg	0.40

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Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.46
Xylenes (total)	ND	5.8	ug/kg	0.78

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	84	(33 - 134)
4-Bromofluorobenzene	80	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT2AE **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 5
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	58	ug/kg	7.6
1,2-Dichlorobenzene	ND	29	ug/kg	2.1
1,3-Dichlorobenzene	ND	29	ug/kg	2.0
1,4-Dichlorobenzene	ND	29	ug/kg	3.9
1,1,2,2-Tetrachloroethane	ND	29	ug/kg	2.0
1,2,4-Trichloro-benzene	ND	29	ug/kg	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	90	(33 - 134)
4-Bromofluorobenzene	84	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT1AG **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.8	ug/kg	3.9
Acenaphthylene	ND	7.8	ug/kg	3.9
Anthracene	ND	7.8	ug/kg	3.9
Benzo(a)anthracene	ND	7.8	ug/kg	3.9
Benzo(a)pyrene	ND	7.8	ug/kg	3.9
Benzo(b)fluoranthene	ND	7.8	ug/kg	3.9
Benzo(ghi)perylene	ND	7.8	ug/kg	3.9
Benzo(k)fluoranthene	ND	7.8	ug/kg	3.9
Chrysene	**11**	**7.8**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.8	ug/kg	3.9
Fluoranthene	ND	7.8	ug/kg	3.9
Fluorene	ND	7.8	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	7.8	ug/kg	3.9
1-Methylnaphthalene	**25**	**7.8**	**ug/kg**	**3.9**
2-Methylnaphthalene	**22**	**7.8**	**ug/kg**	**3.9**
Naphthalene	ND	7.8	ug/kg	3.9
Phenanthrene	**27**	**7.8**	**ug/kg**	**3.9**
Pyrene	ND	7.8	ug/kg	3.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	39	(24 - 112)
2-Fluorobiphenyl	37	(34 - 110)
Terphenyl-d14	49	(41 - 119)
Phenol-d5	36	(28 - 110)
2-Fluorophenol	45	(26 - 110)
2,4,6-Tribromophenol	36	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC Volatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT1AA **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**55 J**	**120**	**ug/kg**	**54**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	56	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT1AC **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**120**	**19**	**mg/kg**	**11**
C10-C20	**67**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-7510-0411

General Chemistry

Lot-Sample #...: A1D110474-002 **Work Order #...:** MGVKT **Matrix.....:** SO
Date Sampled...: 04/08/11 11:05 **Date Received..:** 04/09/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX1AE **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**19 J,B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.8	ug/kg	0.26
Bromodichloromethane	ND	5.8	ug/kg	0.32
Bromoform	ND	5.8	ug/kg	0.38
Bromomethane	ND	12	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**0.98 J**	**5.8**	**ug/kg**	**0.51**
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.38
Dibromochloromethane	ND	5.8	ug/kg	0.63
Chloroethane	ND	12	ug/kg	0.99
Chloroform	ND	5.8	ug/kg	0.33
Chloromethane	ND	12	ug/kg	0.47
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.41
1,2-Dichloroethane	ND	5.8	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.8	ug/kg	0.60
1,2-Dichloropropane	ND	5.8	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.62
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.8	ug/kg	0.18
Methylene chloride	**3.9 J,B**	**5.8**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.8	ug/kg	0.17
Tetrachloroethene	ND	5.8	ug/kg	0.60
Toluene	ND	5.8	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.45
Trichloroethene	ND	5.8	ug/kg	0.48
Trichlorofluoromethane	ND	12	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.8	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	83	(33 - 134)
4-Bromofluorobenzene	77	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX2AE **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 10
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	120	ug/kg	15
1,2-Dichlorobenzene	ND	58	ug/kg	4.1
1,3-Dichlorobenzene	ND	58	ug/kg	4.0
1,4-Dichlorobenzene	ND	58	ug/kg	7.6
1,1,2,2-Tetrachloroethane	ND	58	ug/kg	3.9
1,2,4-Trichloro-benzene	ND	58	ug/kg	3.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	87	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX1AG **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	ND	7.7	ug/kg	3.8
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	**22**	**7.7**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	**20**	**7.7**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	ND	7.7	ug/kg	3.8
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	**37**	**7.7**	**ug/kg**	**3.8**
2-Methylnaphthalene	**54**	**7.7**	**ug/kg**	**3.8**
Naphthalene	**9.3**	**7.7**	**ug/kg**	**3.8**
Phenanthrene	**30**	**7.7**	**ug/kg**	**3.8**
Pyrene	**14**	**7.7**	**ug/kg**	**3.8**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	42	(24 - 112)
2-Fluorobiphenyl	41	(34 - 110)
Terphenyl-d14	54	(41 - 119)
Phenol-d5	42	(28 - 110)
2-Fluorophenol	54	(26 - 110)
2,4,6-Tribromophenol	33	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC Volatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX1AA **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX1AC **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**110**	**19**	**mg/kg**	**11**
C10-C20	**79**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	42	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-2022-0411

General Chemistry

Lot-Sample #...: A1D110474-003 **Work Order #...:** MGVKX **Matrix.....:** SO
Date Sampled...: 04/08/11 10:12 **Date Received..:** 04/09/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK01AE **Matrix.....:** SO
Date Sampled...: 04/08/11 10:00 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**66 B**	**23**	**ug/kg**	**7.1**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.37
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	**9.4 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	**1.5 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.37
Dibromochloromethane	ND	5.7	ug/kg	0.62
Chloroethane	ND	11	ug/kg	0.97
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.46
1,2-Dibromo-3-chloro-propane	ND	11	ug/kg	1.5
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
1,2-Dichlorobenzene	ND	5.7	ug/kg	0.41
1,3-Dichlorobenzene	ND	5.7	ug/kg	0.40
1,4-Dichlorobenzene	ND	5.7	ug/kg	0.75
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.7	ug/kg	0.59
1,2-Dichloropropane	ND	5.7	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.61
Ethylbenzene	ND	5.7	ug/kg	0.29
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.71
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**7.4 B**	**5.7**	**ug/kg**	**0.76**
4-Methyl-2-pentanone	ND	23	ug/kg	0.61
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	0.38

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Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK01AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.7	ug/kg	0.59
Toluene	ND	5.7	ug/kg	0.31
1,2,4-Trichloro-benzene	ND	5.7	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.63
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.44
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.3	ug/kg	0.44
Xylenes (total)	ND	5.7	ug/kg	0.76

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	85	(33 - 134)
4-Bromofluorobenzene	83	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK01AG **Matrix.....:** SO
Date Sampled...: 04/08/11 10:00 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	**9.1**	**7.5**	**ug/kg**	**1.2**
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**19**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**16**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**18**	**7.5**	**ug/kg**	**3.7**
Pyrene	**8.7**	**7.5**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(24 - 112)
2-Fluorobiphenyl	43	(34 - 110)
Terphenyl-d14	54	(41 - 119)
Phenol-d5	42	(28 - 110)
2-Fluorophenol	55	(26 - 110)
2,4,6-Tribromophenol	42	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

GC Volatiles

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK01AA **Matrix.....:** SO
Date Sampled...: 04/08/11 10:00 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	79	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK01AC **Matrix.....:** SO
Date Sampled...: 04/08/11 10:00 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**160**	**19**	**mg/kg**	**10**
C10-C20	**100**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	39	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB22-FTF-1520-0411

General Chemistry

Lot-Sample #...: A1D110474-004 **Work Order #...:** MGVK0 **Matrix.....:** SO
Date Sampled...: 04/08/11 10:00 **Date Received..:** 04/09/11
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK11AE **Matrix.....:** SO
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**16 J,B**	**24**	**ug/kg**	**7.4**
Benzene	ND	5.9	ug/kg	0.27
Bromodichloromethane	ND	5.9	ug/kg	0.33
Bromoform	ND	5.9	ug/kg	0.39
Bromomethane	ND	12	ug/kg	0.64
2-Butanone	ND	24	ug/kg	1.7
Carbon disulfide	ND	5.9	ug/kg	0.52
Carbon tetrachloride	ND	5.9	ug/kg	0.44
Chlorobenzene	ND	5.9	ug/kg	0.39
Dibromochloromethane	ND	5.9	ug/kg	0.65
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.9	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.5
1,2-Dibromoethane	ND	5.9	ug/kg	0.59
1,2-Dichlorobenzene	ND	5.9	ug/kg	0.43
1,3-Dichlorobenzene	ND	5.9	ug/kg	0.41
1,4-Dichlorobenzene	ND	5.9	ug/kg	0.78
Dichlorodifluoromethane	ND	12	ug/kg	0.59
1,1-Dichloroethane	ND	5.9	ug/kg	0.43
1,2-Dichloroethane	ND	5.9	ug/kg	0.40
cis-1,2-Dichloroethene	ND	3.0	ug/kg	0.43
trans-1,2-Dichloroethene	ND	3.0	ug/kg	0.48
1,1-Dichloroethene	ND	5.9	ug/kg	0.61
1,2-Dichloropropane	ND	5.9	ug/kg	0.81
cis-1,3-Dichloropropene	ND	5.9	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.9	ug/kg	0.64
Ethylbenzene	ND	5.9	ug/kg	0.31
n-Hexane	ND	5.9	ug/kg	1.4
2-Hexanone	ND	24	ug/kg	0.74
Isopropylbenzene	ND	5.9	ug/kg	0.19
Methylene chloride	**4.4 J,B**	**5.9**	**ug/kg**	**0.79**
4-Methyl-2-pentanone	ND	24	ug/kg	0.64
Methyl tert-butyl ether (MTBE)	ND	24	ug/kg	0.51
Styrene	ND	5.9	ug/kg	0.18
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	0.40

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Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK11AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.9	ug/kg	0.61
Toluene	ND	5.9	ug/kg	0.32
1,2,4-Trichloro-benzene	ND	5.9	ug/kg	0.32
1,1,1-Trichloroethane	ND	5.9	ug/kg	0.66
1,1,2-Trichloroethane	ND	5.9	ug/kg	0.46
Trichloroethene	ND	5.9	ug/kg	0.50
Trichlorofluoromethane	ND	12	ug/kg	0.40
Vinyl chloride	ND	2.4	ug/kg	0.46
Xylenes (total)	ND	5.9	ug/kg	0.79

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	86	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK11A1 **Matrix.....:** SO
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.9	ug/kg	3.9
Acenaphthylene	ND	7.9	ug/kg	3.9
Anthracene	ND	7.9	ug/kg	3.9
Benzo(a)anthracene	ND	7.9	ug/kg	3.9
Benzo(a)pyrene	ND	7.9	ug/kg	3.9
Benzo(b)fluoranthene	ND	7.9	ug/kg	3.9
Benzo(ghi)perylene	ND	7.9	ug/kg	3.9
Benzo(k)fluoranthene	ND	7.9	ug/kg	3.9
Chrysene	**18**	**7.9**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.9	ug/kg	3.9
Fluoranthene	ND	7.9	ug/kg	3.9
Fluorene	ND	7.9	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	7.9	ug/kg	3.9
1-Methylnaphthalene	**22**	**7.9**	**ug/kg**	**3.9**
2-Methylnaphthalene	**23**	**7.9**	**ug/kg**	**3.9**
Naphthalene	ND	7.9	ug/kg	3.9
Phenanthrene	**25**	**7.9**	**ug/kg**	**3.9**
Pyrene	**11**	**7.9**	**ug/kg**	**3.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(24 - 112)
2-Fluorobiphenyl	40	(34 - 110)
Terphenyl-d14	54	(41 - 119)
Phenol-d5	48	(28 - 110)
2-Fluorophenol	59	(26 - 110)
2,4,6-Tribromophenol	32	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

GC Volatiles

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK11AA **Matrix.....:** SO
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	58	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK11AC **Matrix.....:** SO
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**170**	**20**	**mg/kg**	**11**
C10-C20	**140**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB23-FTF-1012-0411

General Chemistry

Lot-Sample #...: A1D110474-005 **Work Order #...:** MGVK1 **Matrix.....:** SO
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AE **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**120 B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.8	ug/kg	0.26
Bromodichloromethane	ND	5.8	ug/kg	0.32
Bromoform	ND	5.8	ug/kg	0.38
Bromomethane	ND	12	ug/kg	0.62
2-Butanone	**10 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	ND	5.8	ug/kg	0.51
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.38
Dibromochloromethane	ND	5.8	ug/kg	0.63
Chloroethane	ND	12	ug/kg	0.99
Chloroform	ND	5.8	ug/kg	0.33
Chloromethane	ND	12	ug/kg	0.47
1,2-Dibromo-3-chloro-propane	ND	12	ug/kg	1.5
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
1,2-Dichlorobenzene	ND	5.8	ug/kg	0.41
1,3-Dichlorobenzene	ND	5.8	ug/kg	0.40
1,4-Dichlorobenzene	ND	5.8	ug/kg	0.76
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.41
1,2-Dichloroethane	ND	5.8	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.8	ug/kg	0.60
1,2-Dichloropropane	ND	5.8	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.62
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.8	ug/kg	0.18
Methylene chloride	**4.9 J,B**	**5.8**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.8	ug/kg	0.17
1,1,2,2-Tetrachloroethane	ND	5.8	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.8	ug/kg	0.60
Toluene	ND	5.8	ug/kg	0.31
1,2,4-Trichloro-benzene	ND	5.8	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.45
Trichloroethene	ND	5.8	ug/kg	0.48
Trichlorofluoromethane	ND	12	ug/kg	0.39
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.8	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	91	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AL **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	ND	7.7	ug/kg	3.8
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	ND	7.7	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	ND	7.7	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	ND	7.7	ug/kg	3.8
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	ND	7.7	ug/kg	3.8
2-Methylnaphthalene	ND	7.7	ug/kg	3.8
Naphthalene	ND	7.7	ug/kg	3.8
Phenanthrene	ND	7.7	ug/kg	3.8
Pyrene	ND	7.7	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	53	(24 - 112)
2-Fluorobiphenyl	41	(34 - 110)
Terphenyl-d14	56	(41 - 119)
Phenol-d5	48	(28 - 110)
2-Fluorophenol	62	(26 - 110)
2,4,6-Tribromophenol	65	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC Volatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AA **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1105237
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	81	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AC **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**21**	**19**	**mg/kg**	**11**
C10-C20	ND	19	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK81AG **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(10 - 196)
Decachlorobiphenyl	84	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB44-OLD-1720-0411

General Chemistry

Lot-Sample #...: A1D110474-006 **Work Order #...:** MGVK8 **Matrix.....:** SO
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103173**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: GW22-FTF-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-007 **Work Order #...:** MGVK91AA **Matrix.....:** WG
Date Sampled...: 04/08/11 14:18 **Date Received..:** 04/09/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**1.8 J**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW22-FTF-0411

GC/MS Volatiles

Lot-Sample #...: A1D110474-007 **Work Order #...:** MGVK91AA **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D110474-008 **Work Order #...:** MGVLC1AA **Matrix.....:** WQ
Date Sampled...: 04/08/11 14:53 **Date Received..:** 04/09/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**1.9 J**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**2.7**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	**0.58 J**	**10**	**ug/L**	**0.57**
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	**0.56 J**	**1.0**	**ug/L**	**0.18**
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**8.6**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D110474-008 **Work Order #...:** MGVLC1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**1.0**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(75 - 121)
1,2-Dichloroethane-d4	88	(63 - 129)
Toluene-d8	89	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG2XL1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-399

Prep Date.....: 04/13/11
Analysis Date..: 04/13/11 **Prep Batch #...:** 1104399
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**10 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**0.72 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**2.5 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.84 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG2XL1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(30 - 122)
1,2-Dichloroethane-d4	107	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	96	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG6LN1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-356
Prep Date.....: 04/15/11
Analysis Date..: 04/15/11 **Prep Batch #...:** 1108356
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**9.5 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**1.1 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**2.2 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.82 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG6LN1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MHAQR1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D210000-130

Prep Date.....: 04/20/11
Analysis Date..: 04/20/11 **Prep Batch #...:** 1111130
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MHAQR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG21F1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-041

Prep Date.....: 04/15/11
Analysis Date..: 04/17/11 **Prep Batch #...:** 1105041
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(24 - 112)
2-Fluorobiphenyl	52	(34 - 110)
Terphenyl-d14	62	(41 - 119)
Phenol-d5	55	(28 - 110)
2-Fluorophenol	59	(26 - 110)
2,4,6-Tribromophenol	41	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG3TP1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-237
Prep Date.....: 04/14/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1105237
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	87	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG0161AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-046
Prep Date.....: 04/14/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1104046
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG02A1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-051

Prep Date.....: 04/14/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1104051
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	58	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D110474 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MGX1K1AA		MB Lot-Sample #:	A1D130000-173	
	ND	10.0	%	MCAWW 160.3 MOD	04/13-04/14/11	1103173
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399
Prep Date.....: 04/13/11 **Analysis Date..:** 04/13/11
Prep Batch #...: 1104399
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	100	(16 - 156)	SW846 8260A
Benzene	**93**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	93	(61 - 121)	SW846 8260A
Bromodichloromethane	**96**	**(28 - 123)**	**SW846 8260A**
Bromoform	79	(10 - 117)	SW846 8260A
Bromomethane	84	(10 - 114)	SW846 8260A
2-Butanone	**105**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**93**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**90**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**94**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**94**	**(22 - 113)**	**SW846 8260A**
Chloroethane	97	(10 - 120)	SW846 8260A
Chloroform	**104**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	94	(40 - 120)	SW846 8260A
Chloromethane	75	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**75**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**98**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	107	(48 - 151)	SW846 8260A
Methyl acetate	100	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**98**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	91	(41 - 133)	SW846 8260A
o-Xylene	**97**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**94**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**96**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	86	(25 - 140)	SW846 8260A
Acetonitrile	101	(15 - 179)	SW846 8260A
Acrolein	100	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**93**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	101	(49 - 126)	SW846 8260A
Bromobenzene	**95**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**99**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**108**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	60	(10 - 110)	SW846 8260A
sec-Butylbenzene	**101**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**100**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**94**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**100**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**95**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**102**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**100**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**112**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	75	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**99**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	99	(34 - 135)	SW846 8260A
Iodomethane	105	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**92**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	95	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**109**	**(56 - 136)**	**SW846 8260A**
Naphthalene	79	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**93**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**97**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**98**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	85	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**89**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**102**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**105**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**104**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	107	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**97**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**83**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**95**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**93**	**(66 - 119)**	**SW846 8260A**
n-Hexane	106	(51 - 144)	SW846 8260A
2-Hexanone	**103**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**95**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**91**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**97**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**91**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG2XL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-399

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**94**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**97**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**98**	**(58 - 131)**	**SW846 8260A**
Toluene	**96**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	91	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**90**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**92**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	107	(17 - 145)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**95**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108356
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	135	(16 - 156)	SW846 8260A
Benzene	**101**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	106	(61 - 121)	SW846 8260A
Bromodichloromethane	**102**	**(28 - 123)**	**SW846 8260A**
Bromoform	86	(10 - 117)	SW846 8260A
Bromomethane	84	(10 - 114)	SW846 8260A
2-Butanone	**124**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**106**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**103**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**101**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**102**	**(22 - 113)**	**SW846 8260A**
Chloroethane	105	(10 - 120)	SW846 8260A
Chloroform	**111**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	112	(40 - 120)	SW846 8260A
Chloromethane	79	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**98**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**106**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	125	(48 - 151)	SW846 8260A
Methyl acetate	115	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**105**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	111	(41 - 133)	SW846 8260A
o-Xylene	**107**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**103**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**102**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	106	(25 - 140)	SW846 8260A
Acetonitrile	114	(15 - 179)	SW846 8260A
Acrolein	114	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**100**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	114	(49 - 126)	SW846 8260A
Bromobenzene	**99**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**110**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**125**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	63	(10 - 110)	SW846 8260A
sec-Butylbenzene	**113**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**112**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**98**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**112**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**99**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**108**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**104**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	88	(25 - 123)	SW846 8260A
1,2-Dichloroethane	**116**	**(68 - 119)**	**SW846 8260A**
1,1-Dichloropropene	**110**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	122	(34 - 135)	SW846 8260A
Iodomethane	122	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**106**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	104	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**120**	**(56 - 136)**	**SW846 8260A**
Naphthalene	100	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**106**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**104**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**110**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	100	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**110**	**(74 - 124)**	**SW846 8260A**
1,1-Dichloroethene	**105**	**(44 - 143)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**113**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**112**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	125	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**101**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**86**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**99**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**101**	**(66 - 119)**	**SW846 8260A**
n-Hexane	127	(51 - 144)	SW846 8260A
2-Hexanone	**121**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**110**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**103**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**110**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**103**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG6LN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-356

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**101**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**107**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**109**	**(58 - 131)**	**SW846 8260A**
Toluene	**102**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	111	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**105**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**104**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**102**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	118	(17 - 145)	SW846 8260A
Vinyl chloride	**93**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**104**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	85	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	93	(43 - 136)	SW846 8260B
Benzene	**95**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	96	(82 - 114)	SW846 8260B
Bromodichloromethane	**98**	**(72 - 121)**	**SW846 8260B**
Bromoform	93	(40 - 131)	SW846 8260B
Bromomethane	77	(11 - 185)	SW846 8260B
2-Butanone	**100**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**102**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**105**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**90**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**94**	**(64 - 119)**	**SW846 8260B**
Chloroethane	90	(25 - 153)	SW846 8260B
Chloroform	**96**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	120	(74 - 151)	SW846 8260B
Methyl acetate	92	(58 - 131)	SW846 8260B
Chloromethane	79	(44 - 126)	SW846 8260B
Cyclohexane	110	(54 - 121)	SW846 8260B
Methylcyclohexane	115	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**93**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**94**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**88**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**96**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**89**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**94**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	97	(52 - 131)	SW846 8260B
Acetonitrile	102	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**87**	**(82 - 110)**	**SW846 8260B**
Acrolein	140	(51 - 170)	SW846 8260B
Vinyl acetate	121	(46 - 161)	SW846 8260B
Acrylonitrile	97	(66 - 132)	SW846 8260B
Bromobenzene	**91**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	71	(19 - 129)	SW846 8260B
Bromochloromethane	**95**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**97**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**98**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**97**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**96**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**92**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**91**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**97**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**100**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**93**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	96	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**101**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**94**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	85	(36 - 134)	SW846 8260B
Iodomethane	103	(72 - 141)	SW846 8260B
Isopropyl ether	96	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**98**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**101**	**(74 - 120)**	**SW846 8260B**
Naphthalene	84	(32 - 141)	SW846 8260B
n-Propylbenzene	**98**	**(74 - 121)**	**SW846 8260B**
1,1-Dichloroethene	**107**	**(78 - 131)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**92**	**(72 - 116)**	**SW846 8260B**
1,2,3-Trichlorobenzene	86	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**96**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**98**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**97**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**94**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**97**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**93**	**(83 - 112)**	**SW846 8260B**
n-Hexane	122	(66 - 137)	SW846 8260B
2-Hexanone	**99**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**95**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**93**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**100**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**97**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**92**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**93**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**95**	**(79 - 114)**	**SW846 8260B**
Toluene	**95**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	87	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**99**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**94**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**95**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	111	(49 - 157)	SW846 8260B
Vinyl chloride	**87**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**94**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG21F1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-041
Prep Date.....: 04/15/11 **Analysis Date..:** 04/17/11
Prep Batch #...: 1105041
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**55**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**56**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**59**	**(47 - 110)**	**SW846 8270C**
Anthracene	**58**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**60**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**66**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**57**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**60**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**65**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**59**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**67**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**53**	**(38 - 110)**	**SW846 8270C**
Chrysene	**61**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**65**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**40**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**62**	**(55 - 118)**	**SW846 8270C**
Phenol	**57**	**(39 - 110)**	**SW846 8270C**
Fluorene	**57**	**(51 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**64**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**54**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	57	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**59**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**66**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**52**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**34**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**57**	**(54 - 110)**	**SW846 8270C**
Pyrene	**58**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**54**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**52**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**59**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	55	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG21F1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-041

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**60**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**55**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**58**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**56**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**61**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**52**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**55**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**44**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	39	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**65**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**58**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**54**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**70**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**54**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	31	(31 - 110)	SW846 8270C
3-Nitroaniline	**58**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	50	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**59**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	45	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**29 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**64**	**(57 - 121)**	**SW846 8270C**
Carbazole	**60**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**59**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**67**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**62**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**63**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**61**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**55**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**57**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG21F1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-041

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**56**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**60**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**58**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**66**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	47	(10 - 110)	SW846 8270C
Benzoic acid	37	(10 - 124)	SW846 8270C
Pyridine	42	(22 - 110)	SW846 8270C
Atrazine	95	(50 - 130)	SW846 8270C
Acetophenone	64	(50 - 130)	SW846 8270C
1,1'-Biphenyl	58	(50 - 130)	SW846 8270C
Caprolactam	62	(50 - 130)	SW846 8270C
Aniline	41	(10 - 130)	SW846 8270C
Benzyl alcohol	48	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**54**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	52	(10 - 130)	SW846 8270C
Benzaldehyde	82	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	56	(36 - 116)	SW846 8270C
1,4-Dioxane	32	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	62	(24 - 112)
2-Fluorobiphenyl	59	(34 - 110)
Terphenyl-d14	71	(41 - 119)
Phenol-d5	65	(28 - 110)
2-Fluorophenol	63	(26 - 110)
2,4,6-Tribromophenol	64	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MG3TP1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-237
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**124**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	111	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG0161AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-046
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**111**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	49	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MG02A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-051
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**82**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**83**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	77	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1104399
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	109	(10 - 142)			SW846 8260A
	100	(10 - 142)	7.9	(0-30)	SW846 8260A
Benzene	**94**	**(10 - 199)**			**SW846 8260A**
	81	**(10 - 199)**	**15**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**86**	**(18 - 133)**			**SW846 8260A**
	77	**(18 - 133)**	**10**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	94	(29 - 139)			SW846 8260A
	80	(29 - 139)	17	(0-30)	SW846 8260A
Bromoform	65	(10 - 147)			SW846 8260A
	53	(10 - 147)	20	(0-30)	SW846 8260A
Bromomethane	98	(10 - 151)			SW846 8260A
	83	(10 - 151)	16	(0-30)	SW846 8260A
2-Butanone	**112**	**(10 - 172)**			**SW846 8260A**
	108	**(10 - 172)**	**4.0**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**108**	**(10 - 155)**			**SW846 8260A**
	82	**(10 - 155)**	**26**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**99**	**(12 - 135)**			**SW846 8260A**
	82	**(12 - 135)**	**18**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**94**	**(47 - 118)**			**SW846 8260A**
	68 p	**(47 - 118)**	**32**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**92**	**(10 - 128)**			**SW846 8260A**
	68	**(10 - 128)**	**29**	**(0-30)**	**SW846 8260A**
Chloroethane	119	(10 - 168)			SW846 8260A
	98	(10 - 168)	20	(0-30)	SW846 8260A
Chloroform	**101**	**(51 - 120)**			**SW846 8260A**
	87	**(51 - 120)**	**15**	**(0-30)**	**SW846 8260A**
Cyclohexane	106	(10 - 154)			SW846 8260A
	86	(10 - 154)	21	(0-30)	SW846 8260A
Chloromethane	91	(16 - 115)			SW846 8260A
	80	(16 - 115)	13	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**94**	**(10 - 137)**			**SW846 8260A**
	54 p	**(10 - 137)**	**55**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**94**	**(32 - 127)**			**SW846 8260A**
	74	**(32 - 127)**	**25**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	128	(23 - 168)			SW846 8260A
	107	(23 - 168)	19	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	109	(10 - 175)			SW846 8260A
	105	(10 - 175)	4.1	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**105**	**(27 - 126)**			**SW846 8260A**
	61 p	**(27 - 126)**	**53**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	93	(11 - 156)			SW846 8260A
	78	(11 - 156)	17	(0-30)	SW846 8260A
o-Xylene	**106**	**(18 - 151)**			**SW846 8260A**
	77 p	**(18 - 151)**	**32**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**101**	**(14 - 151)**			**SW846 8260A**
	75	**(14 - 151)**	**30**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**107**	**(29 - 124)**			**SW846 8260A**
	61 p	**(29 - 124)**	**54**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	75	(10 - 137)			SW846 8260A
	61	(10 - 137)	20	(0-30)	SW846 8260A
Acetonitrile	117	(10 - 173)			SW846 8260A
	109	(10 - 173)	6.4	(0-30)	SW846 8260A
Acrolein	112	(10 - 145)			SW846 8260A
	102	(10 - 145)	9.1	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**97**	**(30 - 123)**			**SW846 8260A**
	57 p	**(30 - 123)**	**51**	**(0-30)**	**SW846 8260A**
Acrylonitrile	108	(28 - 126)			SW846 8260A
	99	(28 - 126)	9.1	(0-30)	SW846 8260A
Bromobenzene	**120 a**	**(49 - 119)**			**SW846 8260A**
	65 p	**(49 - 119)**	**59**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**94**	**(42 - 123)**			**SW846 8260A**
	83	**(42 - 123)**	**12**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	75	(10 - 113)			SW846 8260A
	64	(10 - 113)	16	(0-30)	SW846 8260A
n-Butylbenzene	**143**	**(13 - 154)**			**SW846 8260A**
	72 p	**(13 - 154)**	**65**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**163 a**	**(41 - 133)**			**SW846 8260A**
	79 p	**(41 - 133)**	**69**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**175 a**	**(45 - 132)**			**SW846 8260A**
	82 p	**(45 - 132)**	**72**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**104**	**(18 - 160)**			**SW846 8260A**
	92	**(18 - 160)**	**12**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**141 a**	**(51 - 118)**			**SW846 8260A**
	70 p	**(51 - 118)**	**68**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**122 a**	**(43 - 120)**			**SW846 8260A**
	66 p	**(43 - 120)**	**59**	**(0-30)**	**SW846 8260A**
Dibromomethane	**91**	**(45 - 121)**			**SW846 8260A**
	81	**(45 - 121)**	**12**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dichloroethane	**106**	**(25 - 150)**			**SW846 8260A**
	95	**(25 - 150)**	**11**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**110**	**(58 - 117)**			**SW846 8260A**
	79 p	**(58 - 117)**	**33**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	86	(26 - 127)			SW846 8260A
	73	(26 - 127)	16	(0-30)	SW846 8260A
1,1-Dichloropropene	**94**	**(42 - 126)**			**SW846 8260A**
	81	**(42 - 126)**	**15**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	141 a	(10 - 134)			SW846 8260A
	67 p	(10 - 134)	72	(0-30)	SW846 8260A
cis-1,2-Dichloroethene	**92**	**(34 - 137)**			**SW846 8260A**
	78	**(34 - 137)**	**16**	**(0-30)**	**SW846 8260A**
Iodomethane	118	(27 - 140)			SW846 8260A
	98	(27 - 140)	19	(0-30)	SW846 8260A
p-Isopropyltoluene	**164 a**	**(33 - 139)**			**SW846 8260A**
	82 p	**(33 - 139)**	**66**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**97**	**(40 - 126)**			**SW846 8260A**
	81	**(40 - 126)**	**18**	**(0-30)**	**SW846 8260A**
Naphthalene	51	(10 - 199)			SW846 8260A
	39	(10 - 199)	28	(0-30)	SW846 8260A
n-Propylbenzene	**147 a**	**(41 - 135)**			**SW846 8260A**
	75 p	**(41 - 135)**	**65**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**112**	**(19 - 124)**			**SW846 8260A**
	80 p	**(19 - 124)**	**34**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethene	**102**	**(10 - 179)**			**SW846 8260A**
	82	**(10 - 179)**	**22**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	59	(10 - 123)			SW846 8260A
	42 p	(10 - 123)	34	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**169 a**	**(54 - 142)**			**SW846 8260A**
	86 p	**(54 - 142)**	**65**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**159**	**(10 - 199)**			**SW846 8260A**
	79 p	**(10 - 199)**	**66**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**167**	**(10 - 173)**			**SW846 8260A**
	82 p	**(10 - 173)**	**69**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**93**	**(58 - 118)**			**SW846 8260A**
	82	**(58 - 118)**	**14**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	128	(23 - 168)			SW846 8260A
	107	(23 - 168)	19	(0-30)	SW846 8260A
cis-1,3-Dichloropropene	**67**	**(19 - 121)**			**SW846 8260A**
	61	**(19 - 121)**	**9.0**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
trans-1,3-Dichloropropene	**84**	**(10 - 136)**			**SW846 8260A**
	65	**(10 - 136)**	**25**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**101**	**(27 - 143)**			**SW846 8260A**
	72 p	**(27 - 143)**	**33**	**(0-30)**	**SW846 8260A**
n-Hexane	91	(18 - 148)			SW846 8260A
	85	(18 - 148)	7.3	(0-30)	SW846 8260A
2-Hexanone	**129**	**(21 - 141)**			**SW846 8260A**
	96	**(21 - 141)**	**30**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**106**	**(39 - 126)**			**SW846 8260A**
	76 p	**(39 - 126)**	**33**	**(0-30)**	**SW846 8260A**
Methylene chloride	**98**	**(10 - 148)**			**SW846 8260A**
	80	**(10 - 148)**	**18**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**103**	**(19 - 151)**			**SW846 8260A**
	93	**(19 - 151)**	**9.8**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**99**	**(26 - 159)**			**SW846 8260A**
	90	**(26 - 159)**	**9.2**	**(0-30)**	**SW846 8260A**
Styrene	**85**	**(31 - 137)**			**SW846 8260A**
	65	**(31 - 137)**	**26**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**162 a**	**(16 - 158)**			**SW846 8260A**
	85 p	**(16 - 158)**	**62**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**111**	**(19 - 153)**			**SW846 8260A**
	83	**(19 - 153)**	**29**	**(0-30)**	**SW846 8260A**
Toluene	**113**	**(10 - 168)**			**SW846 8260A**
	79 p	**(10 - 168)**	**35**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	68	(10 - 136)			SW846 8260A
	45 p	(10 - 136)	42	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**102**	**(10 - 159)**			**SW846 8260A**
	88	**(10 - 159)**	**15**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**112**	**(34 - 152)**			**SW846 8260A**
	82	**(34 - 152)**	**30**	**(0-30)**	**SW846 8260A**
Trichloroethene	**84**	**(10 - 193)**			**SW846 8260A**
	74	**(10 - 193)**	**13**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	130	(10 - 157)			SW846 8260A
	108	(10 - 157)	19	(0-30)	SW846 8260A
Vinyl chloride	**103**	**(15 - 123)**			**SW846 8260A**
	88	**(15 - 123)**	**16**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**103**	**(16 - 150)**			**SW846 8260A**
	75 p	**(16 - 150)**	**31**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AP-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(30 - 122)
	95	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
	112	(39 - 128)
Toluene-d8	81	(33 - 134)
	91	(33 - 134)
4-Bromofluorobenzene	83	(26 - 141)
	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD
Date Sampled...: 04/08/11 14:18 **Date Received..:** 04/09/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	86	(33 - 145)			SW846 8260B
	93	(33 - 145)	7.1	(0-30)	SW846 8260B
Benzene	**101**	**(72 - 121)**			**SW846 8260B**
	107	**(72 - 121)**	**5.9**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**101**	**(67 - 120)**			**SW846 8260B**
	107	**(67 - 120)**	**6.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	101	(75 - 119)			SW846 8260B
	107	(75 - 119)	5.8	(0-30)	SW846 8260B
Bromoform	93	(32 - 128)			SW846 8260B
	98	(32 - 128)	5.0	(0-30)	SW846 8260B
Bromomethane	82	(10 - 186)			SW846 8260B
	85	(10 - 186)	3.7	(0-30)	SW846 8260B
2-Butanone	**97**	**(54 - 129)**			**SW846 8260B**
	104	**(54 - 129)**	**7.0**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**109**	**(57 - 147)**			**SW846 8260B**
	114	**(57 - 147)**	**3.8**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**108**	**(59 - 129)**			**SW846 8260B**
	110	**(59 - 129)**	**2.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 110)**			**SW846 8260B**
	98	**(80 - 110)**	**5.3**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**97**	**(56 - 118)**			**SW846 8260B**
	101	**(56 - 118)**	**4.8**	**(0-30)**	**SW846 8260B**
Chloroethane	96	(21 - 165)			SW846 8260B
	100	(21 - 165)	4.3	(0-30)	SW846 8260B
Chloroform	**100**	**(76 - 118)**			**SW846 8260B**
	107	**(76 - 118)**	**6.9**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	118	(70 - 152)			SW846 8260B
	120	(70 - 152)	1.8	(0-30)	SW846 8260B
Methyl acetate	90	(47 - 130)			SW846 8260B
	96	(47 - 130)	5.6	(0-30)	SW846 8260B
Chloromethane	77	(33 - 132)			SW846 8260B
	80	(33 - 132)	2.6	(0-30)	SW846 8260B
Cyclohexane	108	(49 - 123)			SW846 8260B
	111	(49 - 123)	2.7	(0-30)	SW846 8260B
Methylcyclohexane	108	(49 - 127)			SW846 8260B
	113	(49 - 127)	4.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**88**	**(32 - 139)**			**SW846 8260B**
	103	**(32 - 139)**	**15**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**97**	**(74 - 113)**			**SW846 8260B**
	103	**(74 - 113)**	**5.6**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**90**	**(75 - 111)**			**SW846 8260B**
	95	**(75 - 111)**	**5.6**	**(0-30)**	**SW846 8260B**
o-Xylene	**97**	**(76 - 116)**			**SW846 8260B**
	104	**(76 - 116)**	**6.7**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**88**	**(73 - 110)**			**SW846 8260B**
	95	**(73 - 110)**	**7.1**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**98**	**(75 - 117)**			**SW846 8260B**
	102	**(75 - 117)**	**4.1**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	97	(12 - 182)			SW846 8260B
	107	(12 - 182)	9.6	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**87**	**(75 - 110)**			**SW846 8260B**
	93	**(75 - 110)**	**6.1**	**(0-30)**	**SW846 8260B**
Acrolein	143	(47 - 168)			SW846 8260B
	159	(47 - 168)	10	(0-30)	SW846 8260B
Acrylonitrile	98	(62 - 133)			SW846 8260B
	106	(62 - 133)	7.6	(0-30)	SW846 8260B
Vinyl acetate	120	(43 - 157)			SW846 8260B
	136	(43 - 157)	12	(0-30)	SW846 8260B
Bromobenzene	**92**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**7.1**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	66	(17 - 128)			SW846 8260B
	67	(17 - 128)	2.0	(0-30)	SW846 8260B
Bromochloromethane	**99**	**(73 - 121)**			**SW846 8260B**
	105	**(73 - 121)**	**6.4**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**94**	**(56 - 127)**			**SW846 8260B**
	100	**(56 - 127)**	**5.8**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**97**	**(60 - 119)**			**SW846 8260B**
	102	**(60 - 119)**	**5.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**102**	**(79 - 116)**			**SW846 8260B**
	108	**(79 - 116)**	**6.1**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**98**	**(61 - 119)**			**SW846 8260B**
	117	**(61 - 119)**	**18**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**93**	**(69 - 117)**			**SW846 8260B**
	99	**(69 - 117)**	**6.7**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**92**	**(71 - 116)**			**SW846 8260B**
	95	**(71 - 116)**	**4.0**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**101**	**(68 - 129)**			**SW846 8260B**
	107	**(68 - 129)**	**5.7**	**(0-30)**	**SW846 8260B**
Dibromomethane	**105**	**(77 - 121)**			**SW846 8260B**
	112	**(77 - 121)**	**6.9**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**95**	**(74 - 118)**			**SW846 8260B**
	102	**(74 - 118)**	**7.3**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	98	(38 - 127)			SW846 8260B
	104	(38 - 127)	5.6	(0-30)	SW846 8260B
1,1-Dichloropropene	**106**	**(80 - 114)**			**SW846 8260B**
	110	**(80 - 114)**	**4.3**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**100**	**(70 - 120)**			**SW846 8260B**
	105	**(70 - 120)**	**4.9**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	80	(27 - 132)			SW846 8260B
	84	(27 - 132)	5.1	(0-30)	SW846 8260B
Iodomethane	108	(66 - 144)			SW846 8260B
	115	(66 - 144)	6.8	(0-30)	SW846 8260B
Isopropyl ether	99	(73 - 118)			SW846 8260B
	107	(73 - 118)	7.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**102**	**(80 - 119)**			**SW846 8260B**
	109	**(80 - 119)**	**6.7**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**99**	**(64 - 122)**			**SW846 8260B**
	105	**(64 - 122)**	**5.8**	**(0-30)**	**SW846 8260B**
Naphthalene	84	(15 - 158)			SW846 8260B
	94	(15 - 158)	10	(0-30)	SW846 8260B
n-Propylbenzene	**97**	**(64 - 124)**			**SW846 8260B**
	103	**(64 - 124)**	**6.8**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**95**	**(64 - 118)**			**SW846 8260B**
	100	**(64 - 118)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**110**	**(74 - 135)**			**SW846 8260B**
	114	**(74 - 135)**	**3.2**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	84	(45 - 129)			SW846 8260B
	91	(45 - 129)	7.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**93**	**(67 - 132)**			**SW846 8260B**
	101	**(67 - 132)**	**8.7**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**98**	**(67 - 124)**			**SW846 8260B**
	104	**(67 - 124)**	**6.3**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**102**	**(78 - 115)**			**SW846 8260B**
	109	**(78 - 115)**	**6.6**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**98**	**(63 - 121)**			**SW846 8260B**
	103	**(63 - 121)**	**5.1**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**92**	**(51 - 110)**			**SW846 8260B**
	100	**(51 - 110)**	**8.4**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**96**	**(46 - 116)**			**SW846 8260B**
	103	**(46 - 116)**	**7.7**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**97**	**(75 - 116)**			**SW846 8260B**
	102	**(75 - 116)**	**4.5**	**(0-30)**	**SW846 8260B**
n-Hexane	109	(54 - 138)			SW846 8260B
	115	(54 - 138)	5.4	(0-30)	SW846 8260B
2-Hexanone	**96**	**(47 - 139)**			**SW846 8260B**
	106	**(47 - 139)**	**9.9**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**97**	**(68 - 116)**			**SW846 8260B**
	102	**(68 - 116)**	**5.4**	**(0-30)**	**SW846 8260B**
Methylene chloride	**98**	**(63 - 128)**			**SW846 8260B**
	103	**(63 - 128)**	**4.4**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**99**	**(56 - 131)**			**SW846 8260B**
	109	**(56 - 131)**	**9.4**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**99**	**(46 - 144)**			**SW846 8260B**
	109	**(46 - 144)**	**10**	**(0-30)**	**SW846 8260B**
Styrene	**96**	**(71 - 117)**			**SW846 8260B**
	100	**(71 - 117)**	**3.5**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**94**	**(63 - 122)**			**SW846 8260B**
	102	**(63 - 122)**	**7.8**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**97**	**(70 - 117)**			**SW846 8260B**
	101	**(70 - 117)**	**3.3**	**(0-30)**	**SW846 8260B**
Toluene	**99**	**(78 - 114)**			**SW846 8260B**
	103	**(78 - 114)**	**4.4**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	86	(38 - 138)			SW846 8260B
	93	(38 - 138)	8.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**104**	**(68 - 121)**			**SW846 8260B**
	108	**(68 - 121)**	**4.5**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**98**	**(75 - 115)**			**SW846 8260B**
	104	**(75 - 115)**	**6.4**	**(0-30)**	**SW846 8260B**
Trichloroethene	**100**	**(66 - 120)**			**SW846 8260B**
	106	**(66 - 120)**	**5.8**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	108	(46 - 157)			SW846 8260B
	112	(46 - 157)	3.5	(0-30)	SW846 8260B
Vinyl chloride	**90**	**(49 - 130)**			**SW846 8260B**
	94	**(49 - 130)**	**4.4**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**98**	**(76 - 116)**			**SW846 8260B**
	103	**(76 - 116)**	**5.0**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(75 - 121)
	91	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
	89	(63 - 129)
Toluene-d8	92	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)
	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11A2-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11A3-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1105041
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**39**	**(10 - 200)**			**SW846 8270C**
	38	**(10 - 200)**	**2.1**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**44**	**(33 - 110)**			**SW846 8270C**
	44	**(33 - 110)**	**0.47**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**43**	**(10 - 200)**			**SW846 8270C**
	41	**(10 - 200)**	**3.6**	**(0-30)**	**SW846 8270C**
Anthracene	**50**	**(10 - 200)**			**SW846 8270C**
	43	**(10 - 200)**	**15**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**44**	**(10 - 200)**			**SW846 8270C**
	44	**(10 - 200)**	**0.65**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**45**	**(42 - 118)**			**SW846 8270C**
	49	**(42 - 118)**	**8.8**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**41**	**(10 - 200)**			**SW846 8270C**
	42	**(10 - 200)**	**0.08**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**46**	**(10 - 200)**			**SW846 8270C**
	1.2 a,p	**(10 - 200)**	**190**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**48**	**(10 - 200)**			**SW846 8270C**
	47	**(10 - 200)**	**4.2**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**41**	**(30 - 121)**			**SW846 8270C**
	48	**(30 - 121)**	**15**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**49**	**(10 - 200)**			**SW846 8270C**
	42	**(10 - 200)**	**17**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**42**	**(26 - 110)**			**SW846 8270C**
	50	**(26 - 110)**	**18**	**(0-30)**	**SW846 8270C**
Chrysene	**44**	**(10 - 200)**			**SW846 8270C**
	48	**(10 - 200)**	**8.1**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**52**	**(10 - 200)**			**SW846 8270C**
	46	**(10 - 200)**	**12**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**0.0 a**	**(10 - 182)**			**SW846 8270C**
	0.0 a	**(10 - 182)**	**0.0**	**(0-30)**	**SW846 8270C**
Fluoranthene	**47**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**2.2**	**(0-30)**	**SW846 8270C**
Phenol	**43**	**(10 - 144)**			**SW846 8270C**
	48	**(10 - 144)**	**11**	**(0-30)**	**SW846 8270C**
Fluorene	**43**	**(10 - 187)**			**SW846 8270C**
	44	**(10 - 187)**	**0.33**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11A2-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11A3-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**44**	**(10 - 200)**			**SW846 8270C**
	43	**(10 - 200)**	**3.5**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**44**	**(32 - 110)**			**SW846 8270C**
	47	**(32 - 110)**	**5.2**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	50	(10 - 130)			SW846 8270C
	47	(10 - 130)	6.8	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**45**	**(32 - 117)**			**SW846 8270C**
	45	**(32 - 117)**	**1.4**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**53**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**8.6**	**(0-30)**	**SW846 8270C**
Naphthalene	**42**	**(10 - 200)**			**SW846 8270C**
	43	**(10 - 200)**	**2.3**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**15**	**(10 - 125)**			**SW846 8270C**
	11	**(10 - 125)**	**30**	**(0-30)**	**SW846 8270C**
Phenanthrene	**48**	**(10 - 200)**			**SW846 8270C**
	39	**(10 - 200)**	**20**	**(0-30)**	**SW846 8270C**
Pyrene	**40**	**(10 - 200)**			**SW846 8270C**
	41	**(10 - 200)**	**1.3**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**42**	**(36 - 110)**			**SW846 8270C**
	43	**(36 - 110)**	**0.31**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**57**	**(32 - 118)**			**SW846 8270C**
	63	**(32 - 118)**	**10**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**46**	**(25 - 124)**			**SW846 8270C**
	51	**(25 - 124)**	**10**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**45**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**6.2**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**50**	**(44 - 120)**			**SW846 8270C**
	48	**(44 - 120)**	**6.2**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**48**	**(43 - 138)**			**SW846 8270C**
	49	**(43 - 138)**	**0.74**	**(0-30)**	**SW846 8270C**
Carbazole	**1.9 a**	**(10 - 162)**			**SW846 8270C**
	43 p	**(10 - 162)**	**183**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11A2-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11A3-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	33	(11 - 110)			SW846 8270C
	31	(11 - 110)	6.7	(0-30)	SW846 8270C
2-Chloronaphthalene	**40**	**(40 - 110)**			**SW846 8270C**
	39 a	**(40 - 110)**	**2.2**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	21 a	(47 - 116)			SW846 8270C
	23 a	(47 - 116)	5.0	(0-30)	SW846 8270C
Dibenzofuran	**46**	**(10 - 200)**			**SW846 8270C**
	45	**(10 - 200)**	**3.8**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**50**	**(31 - 145)**			**SW846 8270C**
	49	**(31 - 145)**	**2.4**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**40**	**(29 - 110)**			**SW846 8270C**
	50	**(29 - 110)**	**21**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**38**	**(29 - 110)**			**SW846 8270C**
	44	**(29 - 110)**	**14**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	24	(10 - 110)			SW846 8270C
	31	(10 - 110)	25	(0-30)	SW846 8270C
2,4-Dichlorophenol	**44**	**(33 - 110)**			**SW846 8270C**
	40	**(33 - 110)**	**11**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**49**	**(48 - 118)**			**SW846 8270C**
	50	**(48 - 118)**	**1.0**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**42**	**(19 - 114)**			**SW846 8270C**
	45	**(19 - 114)**	**4.4**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**44 a**	**(47 - 116)**			**SW846 8270C**
	45 a	**(47 - 116)**	**1.6**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dinitrophenol	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**44**	**(28 - 137)**			**SW846 8270C**
	43	**(28 - 137)**	**3.6**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**54**	**(10 - 182)**			**SW846 8270C**
	47	**(10 - 182)**	**15**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**49**	**(37 - 122)**			**SW846 8270C**
	48	**(37 - 122)**	**3.1**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**40**	**(30 - 110)**			**SW846 8270C**
	42	**(30 - 110)**	**3.5**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11A2-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11A3-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**30**	**(13 - 110)**			**SW846 8270C**
	35	**(13 - 110)**	**15**	**(0-30)**	**SW846 8270C**
Isophorone	**41**	**(32 - 129)**			**SW846 8270C**
	39	**(32 - 129)**	**6.4**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**47**	**(19 - 124)**			**SW846 8270C**
	47	**(19 - 124)**	**0.60**	**(0-30)**	**SW846 8270C**
4-Methylphenol	46	(27 - 116)			SW846 8270C
	46	(27 - 116)	1.4	(0-30)	SW846 8270C
2-Nitroaniline	**50**	**(31 - 141)**			**SW846 8270C**
	52	**(31 - 141)**	**2.4**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**46**	**(24 - 110)**			**SW846 8270C**
	36	**(24 - 110)**	**24**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**41**	**(23 - 124)**			**SW846 8270C**
	41	**(23 - 124)**	**1.1**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**43**	**(33 - 111)**			**SW846 8270C**
	41	**(33 - 111)**	**5.3**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**36**	**(17 - 110)**			**SW846 8270C**
	36	**(17 - 110)**	**2.2**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**49**	**(10 - 169)**			**SW846 8270C**
	45	**(10 - 169)**	**11**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**42**	**(32 - 112)**			**SW846 8270C**
	46	**(32 - 112)**	**6.8**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**36**	**(22 - 110)**			**SW846 8270C**
	33	**(22 - 110)**	**9.6**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 a	(10 - 200)			SW846 8270C
	0.0 a	(10 - 200)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	19	(10 - 110)			SW846 8270C
	23	(10 - 110)	16	(0-30)	SW846 8270C
Pyridine	24	(10 - 110)			SW846 8270C
	36 p	(10 - 110)	39	(0-30)	SW846 8270C
Atrazine	70	(50 - 130)			SW846 8270C
	68	(50 - 130)	3.7	(0-30)	SW846 8270C
Acetophenone	49 a	(50 - 130)			SW846 8270C
	56	(50 - 130)	13	(0-30)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11A2-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11A3-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	40 a	(50 - 130)			SW846 8270C
	41 a	(50 - 130)	2.3	(0-30)	SW846 8270C
Caprolactam	32 a	(50 - 130)			SW846 8270C
	42 a	(50 - 130)	27	(0-30)	SW846 8270C
Aniline	25	(10 - 130)			SW846 8270C
	30	(10 - 130)	16	(0-30)	SW846 8270C
Benzyl alcohol	34	(10 - 130)			SW846 8270C
	38	(10 - 130)	9.8	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**40**	**(10 - 130)**			**SW846 8270C**
	47	**(10 - 130)**	**14**	**(0-30)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	20	(10 - 130)			SW846 8270C
	18	(10 - 130)	9.1	(0-30)	SW846 8270C
Benzaldehyde	58	(10 - 130)			SW846 8270C
	76	(10 - 130)	27	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	49	(24 - 112)
	47	(24 - 112)
2-Fluorobiphenyl	41	(34 - 110)
	43	(34 - 110)
Terphenyl-d14	51	(41 - 119)
	51	(41 - 119)
Phenol-d5	47	(28 - 110)
	52	(28 - 110)
2-Fluorophenol	50	(26 - 110)
	60	(26 - 110)
2,4,6-Tribromophenol	43	(10 - 118)
	39	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AG-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AH-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1105237
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**52**	**(10 - 142)**			**SW846 8015A MOD**
	66	**(10 - 142)**	**23**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	75	(10 - 150)
	88	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK11AV-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-005 MGVK11AW-MSD
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**63 a**	**(70 - 130)**			**SW846 8015B**
	46 a	**(70 - 130)**	**4.6**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	53	(10 - 110)
	47	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D110474 **Work Order #...:** MGVK81AJ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D110474-006 MGVK81AK-MSD
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**82**	**(10 - 199)**			**SW846 8082**
	69	**(10 - 199)**	**16**	**(0-30)**	**SW846 8082**
Aroclor 1260	**81**	**(10 - 199)**			**SW846 8082**
	69	**(10 - 199)**	**16**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(10 - 196)
	63	(10 - 196)
Decachlorobiphenyl	86	(10 - 199)
	73	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D110474 **Work Order #...:** MGVK1-SMP **Matrix.....:** SO
MGVK1-DUP
Date Sampled...: 04/08/11 11:15 **Date Received..:** 04/09/11
% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D110474-005		
	84.7	86.0	%	1.5	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103173

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D110474 **Work Order #...:** MGW3Q-SMP **Matrix.....:** SOLID
MGW3Q-DUP
Date Sampled...: 04/11/11 13:20 **Date Received..:** 04/12/11
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D120546-019		
	83.4	84.4	%	1.2	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103173

Dilution Factor: 1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact:	Lab Contact: Denise Pohl	COC No: 019549
Address: 250 W Court #200N	Telephone:	Telephone:	Telephone:	1 of 1 COCs
City/State/Zip: Cinci Oh 45204	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below: ☐ 3 weeks ☒ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab sampling: ☐
Project Name: Mansfield Stamping	Method of Shipment/Carrier: fedex			
Project Number:	Shipping/Tracking No:			Job/SDG No:
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite = C; Grab = G	VOC	TPH DRO/GRO	PAH	PCB	Metals						Sample Specific Notes / Special Instructions:
SBDUP2	4/8	—				X							X		N	G	X	X	X								
SB23-FTF-7510-0411		1105				X							X				X	X	X								
SB22-FTF-2022-0411		1012				X							X				X	X	X								
SB22-FTF-1520-0411		1000				X							X				X	X	X								
SB23-FTF-1012-0411		1115				X							X				X	X	X								MS&MSD
SB44-OLD-1720-0411		1452				X							X				X	X		XX							
GW22-FTF-0411		1418		X						X							X										
Trip BLANK		1453		X						X							X										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT	4/8 @ 1550			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA	Date/Time: 4/9/11 945

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TestAmerica Cooler Receipt Form/Narrative **Lot Number:** A1D1147Y
North Canton Facility

Client TetraTech Project Mansfield By: _____
Cooler Received on 4/9/11 Opened on 4-11-11 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # L583 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☑ Intact? Yes ☐ No ☐ NA ☑
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☑
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt 2.5 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☑
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-($CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant

Discrepancies Cont'd:

TestAmerica
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END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 1035171404.002

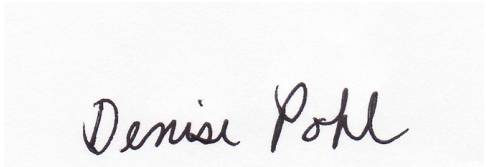
MANSFIELD STAMPING PLANT

Lot #: A1D120528

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/11/2011 3:30 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 06, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D120528

The following report contains the analytical results for nine solid samples, one water sample and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site, project number 1035171404.002. The samples were received April 12, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnaphthalene by 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperatures of the coolers upon sample receipt were 2.0 and 2.9°C.

See TestAmerica's Cooler Receipt Form for additional information.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Batch(es) 1108220 had recoveries and/or RPDs out high in the LCS. Since there were no target analytes detected in any of the associated samples, no corrective action was necessary.

Surrogate recoveries were outside criteria for sample(s) SB43-OLD-1725-0411 and SB45-OLD-1012-0411, due to demonstrated matrix effects.

Sample(s) SB41-OLD-1215-0411, SB41-OLD-255-0411, SB42-OLD-1720-0411, SB43-OLD-025-0411, SB43-OLD-1725-0411, SB45-OLD-1012-0411, SB45-OLD-255-0411, and SB45-OLD-2730-0411 were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

CASE NARRATIVE (continued)

GC/MS VOLATILES (continued)

An MS/MSD was analyzed in batch(es) 1108220 and 1108245, but could not be reported because the associated sample was re-analyzed in a different batch.

An MS/MSD was analyzed in batch(es) 1109161, but could not be reported because the associated sample had matrix interference.

GC/MS SEMIVOLATILES

Result concentration exceeds the calibration range. Refer to the sample report pages for the affected compound(s) flagged with "E".

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SB42-OLD-0710-0411 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 1103052 and 1103053 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

Sample(s) GW43-OLD-0411 had up to one surrogate recovery per fraction outside acceptance limits. However, since the recovery was greater than 10% and all associated QC met criteria, no corrective action was taken.

Sample(s) SB43-OLD-1725-0411 and SB41-OLD-1215-0411 had elevated reporting limits due to matrix interferences.

Two analyses were used to report sample(s) GW43-OLD-0411 due to high analyte concentrations.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The analytical results met the requirements of the laboratory's QA/QC program.

CASE NARRATIVE (continued)

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch(es) 1105335.

POLYCHLORINATED BIPHENYLS-8082

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB42-OLD-0710-0411 04/11/11 15:20 001				
C20-C34	40	24	mg/kg	SW846 8015B
Mercury	0.044 B	0.14	mg/kg	SW846 7471A
Arsenic	13.0	1.4	mg/kg	SW846 6010B
Lead	23.2	0.42	mg/kg	SW846 6010B
Barium	139 J	28.2	mg/kg	SW846 6010B
Chromium	13.2	1.4	mg/kg	SW846 6010B
Acetone	170 B	28	ug/kg	SW846 8260A
2-Butanone	36	28	ug/kg	SW846 8260A
Methylene chloride	7.6 B	7.1	ug/kg	SW846 8260A
Percent Solids	70.9	10.0	%	MCAWW 160.3 MOD
SB42-OLD-1720-0411 04/11/11 15:33 002				
C20-C34	61	19	mg/kg	SW846 8015B
C10-C20	39	19	mg/kg	SW846 8015B
Arsenic	11.5	1.1	mg/kg	SW846 6010B
Lead	11.6	0.34	mg/kg	SW846 6010B
Barium	39.7 J	22.8	mg/kg	SW846 6010B
Cadmium	0.32 B	0.57	mg/kg	SW846 6010B
Chromium	10.3	1.1	mg/kg	SW846 6010B
Benzo(ghi)perylene	8.7	7.6	ug/kg	SW846 8270C
Chrysene	12	7.6	ug/kg	SW846 8270C
Acetone	11 J,B	23	ug/kg	SW846 8260A
Methylene chloride	5.7 B	5.7	ug/kg	SW846 8260A
Percent Solids	87.6	10.0	%	MCAWW 160.3 MOD
SB45-OLD-255-0411 04/11/11 10:29 003				
C20-C34	1200	190	mg/kg	SW846 8015B
C10-C20	120 J	190	mg/kg	SW846 8015B
Aroclor 1260	40	38	ug/kg	SW846 8082
Mercury	0.024 B	0.081	mg/kg	SW846 7471A
Arsenic	43.1	1.1	mg/kg	SW846 6010B
Lead	33.9	0.34	mg/kg	SW846 6010B
Barium	60.5 J	22.9	mg/kg	SW846 6010B
Cadmium	0.24 B	0.57	mg/kg	SW846 6010B
Chromium	13.3	1.1	mg/kg	SW846 6010B
Acenaphthene	1100	150	ug/kg	SW846 8270C
Anthracene	2700	150	ug/kg	SW846 8270C
Benzo(a)anthracene	7500	150	ug/kg	SW846 8270C
Benzo(a)pyrene	7000	150	ug/kg	SW846 8270C
Benzo(b)fluoranthene	8200	150	ug/kg	SW846 8270C
Benzo(ghi)perylene	4100	150	ug/kg	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB45-OLD-255-0411 04/11/11 10:29 003				
Benzo(k)fluoranthene	4700	150	ug/kg	SW846 8270C
Chrysene	8200	150	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	1600	150	ug/kg	SW846 8270C
Fluoranthene	18000	150	ug/kg	SW846 8270C
Fluorene	850	150	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	3300	150	ug/kg	SW846 8270C
2-Methylnaphthalene	220	150	ug/kg	SW846 8270C
Phenanthrene	8800	150	ug/kg	SW846 8270C
Pyrene	13000	150	ug/kg	SW846 8270C
Acetone	69 B	23	ug/kg	SW846 8260A
Benzene	0.27 J	5.7	ug/kg	SW846 8260A
2-Butanone	8.2 J	23	ug/kg	SW846 8260A
Carbon disulfide	1.3 J	5.7	ug/kg	SW846 8260A
Methylene chloride	8.2 B	5.7	ug/kg	SW846 8260A
4-Methyl-2-pentanone	5.9 J,B	23	ug/kg	SW846 8260A
Toluene	0.73 J	5.7	ug/kg	SW846 8260A
Xylenes (total)	0.82 J	5.7	ug/kg	SW846 8260A
Percent Solids	87.2	10.0	%	MCAWW 160.3 MOD
SB45-OLD-1012-0411 04/11/11 10:46 004				
C20-C34	130	93	mg/kg	SW846 8015B
Arsenic	18.5	1.1	mg/kg	SW846 6010B
Lead	18.4	0.33	mg/kg	SW846 6010B
Barium	56.9 J	22.3	mg/kg	SW846 6010B
Cadmium	0.39 B	0.56	mg/kg	SW846 6010B
Chromium	11.8	1.1	mg/kg	SW846 6010B
Anthracene	15	7.4	ug/kg	SW846 8270C
Benzo(a)anthracene	33	7.4	ug/kg	SW846 8270C
Benzo(a)pyrene	39	7.4	ug/kg	SW846 8270C
Benzo(b)fluoranthene	49	7.4	ug/kg	SW846 8270C
Benzo(ghi)perylene	38	7.4	ug/kg	SW846 8270C
Benzo(k)fluoranthene	24	7.4	ug/kg	SW846 8270C
Chrysene	47	7.4	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	7.4	7.4	ug/kg	SW846 8270C
Fluoranthene	77	7.4	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	21	7.4	ug/kg	SW846 8270C
2-Methylnaphthalene	8.3	7.4	ug/kg	SW846 8270C
Phenanthrene	54	7.4	ug/kg	SW846 8270C
Pyrene	80	7.4	ug/kg	SW846 8270C
Acetone	49 B	22	ug/kg	SW846 8260A
2-Butanone	9.7 J	22	ug/kg	SW846 8260A
Carbon disulfide	1.3 J	5.6	ug/kg	SW846 8260A

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EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB45-OLD-1012-0411 04/11/11 10:46 004				
Methylene chloride	6.5 B	5.6	ug/kg	SW846 8260A
Toluene	0.64 J	5.6	ug/kg	SW846 8260A
Percent Solids	89.9	10.0	%	MCAWW 160.3 MOD
SB45-OLD-2730-0411 04/11/11 11:07 005				
C20-C34	110	19	mg/kg	SW846 8015B
C10-C20	58	19	mg/kg	SW846 8015B
Arsenic	14.6	1.2	mg/kg	SW846 6010B
Lead	11.7	0.35	mg/kg	SW846 6010B
Barium	50.5 J	23.3	mg/kg	SW846 6010B
Cadmium	0.16 B	0.58	mg/kg	SW846 6010B
Chromium	10.7	1.2	mg/kg	SW846 6010B
Benzo(ghi)perylene	11	7.8	ug/kg	SW846 8270C
Chrysene	30	7.8	ug/kg	SW846 8270C
Phenanthrene	44	7.8	ug/kg	SW846 8270C
Acetone	16 J,B	23	ug/kg	SW846 8260A
Methylene chloride	9.0 B	5.8	ug/kg	SW846 8260A
Toluene	0.36 J	5.8	ug/kg	SW846 8260A
Percent Solids	85.8	10.0	%	MCAWW 160.3 MOD
SB43-OLD-1725-0411 04/11/11 12:05 006				
C20-C34	180	19	mg/kg	SW846 8015B
C10-C20	150	19	mg/kg	SW846 8015B
Arsenic	11.9	1.1	mg/kg	SW846 6010B
Lead	11.3	0.33	mg/kg	SW846 6010B
Barium	37.0 J	22.3	mg/kg	SW846 6010B
Cadmium	0.39 B	0.56	mg/kg	SW846 6010B
Chromium	9.7	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	63	19	ug/kg	SW846 8270C
2-Methylnaphthalene	63	19	ug/kg	SW846 8270C
Phenanthrene	60	19	ug/kg	SW846 8270C
Pyrene	22	19	ug/kg	SW846 8270C
Acetone	29 B	22	ug/kg	SW846 8260A
Carbon disulfide	2.6 J	5.6	ug/kg	SW846 8260A
Methylene chloride	15 B	5.6	ug/kg	SW846 8260A
Percent Solids	89.7	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB43-OLD-025-0411 04/11/11 11:48 007				
C20-C34	19000	2100	mg/kg	SW846 8015B
C10-C20	4400	2100	mg/kg	SW846 8015B
Aroclor 1254	21 J	41	ug/kg	SW846 8082
Mercury	0.059 B	0.097	mg/kg	SW846 7471A
Arsenic	16.0	1.3	mg/kg	SW846 6010B
Lead	57.2	0.38	mg/kg	SW846 6010B
Barium	60.4 J	25.1	mg/kg	SW846 6010B
Cadmium	0.64	0.63	mg/kg	SW846 6010B
Chromium	15.9	1.3	mg/kg	SW846 6010B
Acenaphthene	62000	4200	ug/kg	SW846 8270C
Anthracene	120000	4200	ug/kg	SW846 8270C
Benzo(a)anthracene	230000	4200	ug/kg	SW846 8270C
Benzo(a)pyrene	190000	4200	ug/kg	SW846 8270C
Benzo(b)fluoranthene	210000	4200	ug/kg	SW846 8270C
Benzo(ghi)perylene	98000	4200	ug/kg	SW846 8270C
Benzo(k)fluoranthene	170000	4200	ug/kg	SW846 8270C
Chrysene	250000	4200	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	34000	4200	ug/kg	SW846 8270C
Fluoranthene	650000	4200	ug/kg	SW846 8270C
Fluorene	51000	4200	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	93000	4200	ug/kg	SW846 8270C
1-Methylnaphthalene	8500	4200	ug/kg	SW846 8270C
2-Methylnaphthalene	13000	4200	ug/kg	SW846 8270C
Naphthalene	11000	4200	ug/kg	SW846 8270C
Phenanthrene	510000	4200	ug/kg	SW846 8270C
Pyrene	450000	4200	ug/kg	SW846 8270C
Acetone	53 B	25	ug/kg	SW846 8260A
Benzene	0.40 J	6.3	ug/kg	SW846 8260A
1,2-Dichloroethane	0.60 J	6.3	ug/kg	SW846 8260A
Methylene chloride	11 B	6.3	ug/kg	SW846 8260A
Toluene	0.81 J	6.3	ug/kg	SW846 8260A
Percent Solids	79.8	10.0	%	MCAWW 160.3 MOD
SB41-OLD-1215-0411 04/11/11 14:16 008				
C20-C34	150	19	mg/kg	SW846 8015B
C10-C20	98	19	mg/kg	SW846 8015B
Arsenic	13.0	1.2	mg/kg	SW846 6010B
Lead	12.5	0.35	mg/kg	SW846 6010B
Barium	27.6 J	23.2	mg/kg	SW846 6010B
Cadmium	0.21 B	0.58	mg/kg	SW846 6010B
Chromium	10.7	1.2	mg/kg	SW846 6010B
Phenanthrene	49	31	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB41-OLD-1215-0411 04/11/11 14:16 008				
Acetone	21 J,B	23	ug/kg	SW846 8260A
Carbon disulfide	0.91 J	5.8	ug/kg	SW846 8260A
1,1-Dichloroethane	24	5.8	ug/kg	SW846 8260A
Methylene chloride	5.2 J,B	5.8	ug/kg	SW846 8260A
Percent Solids	86.2	10.0	%	MCAWW 160.3 MOD
SB41-OLD-255-0411 04/11/11 14:07 009				
C20-C34	120	19	mg/kg	SW846 8015B
C10-C20	94	19	mg/kg	SW846 8015B
Arsenic	13.4	1.1	mg/kg	SW846 6010B
Lead	12.5	0.34	mg/kg	SW846 6010B
Barium	56.4 J	22.5	mg/kg	SW846 6010B
Cadmium	0.35 B	0.56	mg/kg	SW846 6010B
Chromium	11.2	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	11	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	10	7.5	ug/kg	SW846 8270C
Phenanthrene	20	7.5	ug/kg	SW846 8270C
Pyrene	11	7.5	ug/kg	SW846 8270C
Acetone	64 B	23	ug/kg	SW846 8260A
Benzene	0.30 J	5.6	ug/kg	SW846 8260A
Carbon disulfide	1.3 J	5.6	ug/kg	SW846 8260A
1,1-Dichloroethane	12	5.6	ug/kg	SW846 8260A
1,2-Dichloroethane	0.68 J	5.6	ug/kg	SW846 8260A
Methylene chloride	9.3 B	5.6	ug/kg	SW846 8260A
Toluene	0.42 J	5.6	ug/kg	SW846 8260A
Percent Solids	88.8	10.0	%	MCAWW 160.3 MOD
GW43-OLD-0411 04/11/11 13:50 010				
C20-C34	2100	500	ug/L	SW846 8015B
C10-C20	650	500	ug/L	SW846 8015B
Acenaphthene	12	0.20	ug/L	SW846 8270C
Acenaphthene	13	0.50	ug/L	SW846 8270C
Anthracene	15	0.50	ug/L	SW846 8270C
Benzo(a)anthracene	28	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	27	0.50	ug/L	SW846 8270C
Benzo(a)pyrene	22	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	20	0.50	ug/L	SW846 8270C
Benzo(b)fluoranthene	29	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	30	0.50	ug/L	SW846 8270C
Benzo(ghi)perylene	12	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	12	0.50	ug/L	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D120528

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW43-OLD-0411 04/11/11 13:50 010				
Benzo(k)fluoranthene	12	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	11	0.50	ug/L	SW846 8270C
Chrysene	29	0.20	ug/L	SW846 8270C
Chrysene	28	0.50	ug/L	SW846 8270C
Dibenz(a,h)anthracene	3.6	0.20	ug/L	SW846 8270C
Fluoranthene	74 E	0.20	ug/L	SW846 8270C
Fluoranthene	91	0.50	ug/L	SW846 8270C
Fluorene	9.3	0.20	ug/L	SW846 8270C
Fluorene	8.6	0.50	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	12	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	11	0.50	ug/L	SW846 8270C
1-Methylnaphthalene	2.3	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	1.9	0.50	ug/L	SW846 8270C
2-Methylnaphthalene	3.3	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	2.8	0.50	ug/L	SW846 8270C
Naphthalene	3.3	0.20	ug/L	SW846 8270C
Naphthalene	3.1	0.50	ug/L	SW846 8270C
Phenanthrene	66 E	0.20	ug/L	SW846 8270C
Phenanthrene	87	0.50	ug/L	SW846 8270C
Pyrene	60 E	0.20	ug/L	SW846 8270C
Pyrene	63	0.50	ug/L	SW846 8270C
Acetone	7.2 J	10	ug/L	SW846 8260B
Bromodichloromethane	0.17 J	1.0	ug/L	SW846 8260B
2-Butanone	1.0 J	10	ug/L	SW846 8260B
Carbon disulfide	0.43 J	1.0	ug/L	SW846 8260B
Chloroform	0.50 J	1.0	ug/L	SW846 8260B
Toluene	0.32 J	1.0	ug/L	SW846 8260B
TRIP BLANK 04/11/11 18:10 011				
Acetone	13	10	ug/L	SW846 8260B
Chloroform	0.25 J	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.36 J	1.0	ug/L	SW846 8260B
Methylene chloride	9.5	1.0	ug/L	SW846 8260B
Toluene	0.52 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D120528

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D120528

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MGWX8	001	SB42-OLD-0710-0411	04/11/11	15:20
MGW0C	002	SB42-OLD-1720-0411	04/11/11	15:33
MGW0D	003	SB45-OLD-255-0411	04/11/11	10:29
MGW0E	004	SB45-OLD-1012-0411	04/11/11	10:46
MGW0F	005	SB45-OLD-2730-0411	04/11/11	11:07
MGW0G	006	SB43-OLD-1725-0411	04/11/11	12:05
MGW0H	007	SB43-OLD-025-0411	04/11/11	11:48
MGW0K	008	SB41-OLD-1215-0411	04/11/11	14:16
MGW0L	009	SB41-OLD-255-0411	04/11/11	14:07
MGW0M	010	GW43-OLD-0411	04/11/11	13:50
MGW0R	011	TRIP BLANK	04/11/11	18:10

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AE **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 29 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**170 B**	**28**	**ug/kg**	**8.9**
Benzene	ND	7.1	ug/kg	0.32
Bromodichloromethane	ND	7.1	ug/kg	0.39
Bromoform	ND	7.1	ug/kg	0.47
Bromomethane	ND	14	ug/kg	0.76
2-Butanone	**36**	**28**	**ug/kg**	**2.0**
Carbon disulfide	ND	7.1	ug/kg	0.62
Carbon tetrachloride	ND	7.1	ug/kg	0.52
Chlorobenzene	ND	7.1	ug/kg	0.47
Dibromochloromethane	ND	7.1	ug/kg	0.78
Chloroethane	ND	14	ug/kg	1.2
Chloroform	ND	7.1	ug/kg	0.41
Chloromethane	ND	14	ug/kg	0.58
1,2-Dibromo-3-chloro-propane	ND	14	ug/kg	1.8
1,2-Dibromoethane	ND	7.1	ug/kg	0.71
1,2-Dichlorobenzene	ND	7.1	ug/kg	0.51
1,3-Dichlorobenzene	ND	7.1	ug/kg	0.49
1,4-Dichlorobenzene	ND	7.1	ug/kg	0.93
Dichlorodifluoromethane	ND	14	ug/kg	0.71
1,1-Dichloroethane	ND	7.1	ug/kg	0.51
1,2-Dichloroethane	ND	7.1	ug/kg	0.48
cis-1,2-Dichloroethene	ND	3.5	ug/kg	0.51
trans-1,2-Dichloroethene	ND	3.5	ug/kg	0.58
1,1-Dichloroethene	ND	7.1	ug/kg	0.73
1,2-Dichloropropane	ND	7.1	ug/kg	0.97
cis-1,3-Dichloropropene	ND	7.1	ug/kg	0.48
trans-1,3-Dichloropropene	ND	7.1	ug/kg	0.76
Ethylbenzene	ND	7.1	ug/kg	0.37
n-Hexane	ND	7.1	ug/kg	1.7
2-Hexanone	ND	28	ug/kg	0.89
Isopropylbenzene	ND	7.1	ug/kg	0.23
Methylene chloride	**7.6 B**	**7.1**	**ug/kg**	**0.94**
4-Methyl-2-pentanone	ND	28	ug/kg	0.76
Methyl tert-butyl ether (MTBE)	ND	28	ug/kg	0.61
Styrene	ND	7.1	ug/kg	0.21
1,1,2,2-Tetrachloroethane	ND	7.1	ug/kg	0.48

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Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	7.1	ug/kg	0.73
Toluene	ND	7.1	ug/kg	0.38
1,2,4-Trichloro-benzene	ND	7.1	ug/kg	0.38
1,1,1-Trichloroethane	ND	7.1	ug/kg	0.79
1,1,2-Trichloroethane	ND	7.1	ug/kg	0.55
Trichloroethene	ND	7.1	ug/kg	0.59
Trichlorofluoromethane	ND	14	ug/kg	0.48
Vinyl chloride	ND	2.8	ug/kg	0.55
Xylenes (total)	ND	7.1	ug/kg	0.94

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	100	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	110	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105334
Dilution Factor: 1
% Moisture.....: 29 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	9.4	ug/kg	4.7
Acenaphthylene	ND	9.4	ug/kg	4.7
Anthracene	ND	9.4	ug/kg	4.7
Benzo(a)anthracene	ND	9.4	ug/kg	4.7
Benzo(a)pyrene	ND	9.4	ug/kg	4.7
Benzo(b)fluoranthene	ND	9.4	ug/kg	4.7
Benzo(ghi)perylene	ND	9.4	ug/kg	4.7
Benzo(k)fluoranthene	ND	9.4	ug/kg	4.7
Chrysene	ND	9.4	ug/kg	1.6
Dibenz(a,h)anthracene	ND	9.4	ug/kg	4.7
Fluoranthene	ND	9.4	ug/kg	4.7
Fluorene	ND	9.4	ug/kg	4.7
Indeno(1,2,3-cd)pyrene	ND	9.4	ug/kg	4.7
1-Methylnaphthalene	ND	9.4	ug/kg	4.7
2-Methylnaphthalene	ND	9.4	ug/kg	4.7
Naphthalene	ND	9.4	ug/kg	4.7
Phenanthrene	ND	9.4	ug/kg	4.7
Pyrene	ND	9.4	ug/kg	4.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	45	(24 - 112)
2-Fluorobiphenyl	53	(34 - 110)
Terphenyl-d14	69	(41 - 119)
Phenol-d5	56	(28 - 110)
2-Fluorophenol	58	(26 - 110)
2,4,6-Tribromophenol	49	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC Volatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AA **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 29 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	140	ug/kg	65

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	72	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AC **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 29 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**40**	**24**	**mg/kg**	**13**
C10-C20	ND	24	mg/kg	13

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	38	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX81AP **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 29 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	47	ug/kg	30
Aroclor 1221	ND	47	ug/kg	23
Aroclor 1232	ND	47	ug/kg	20
Aroclor 1242	ND	47	ug/kg	18
Aroclor 1248	ND	47	ug/kg	24
Aroclor 1254	ND	47	ug/kg	24
Aroclor 1260	ND	47	ug/kg	24

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(10 - 196)
Decachlorobiphenyl	88	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

TOTAL Metals

Lot-Sample #...: A1D120528-001 **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
% Moisture.....: 29

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**13.0**	**1.4**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGWX81AG**
		Dilution Factor: 1		MDL.....: 0.42		
Lead	**23.2**	**0.42**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGWX81AH**
		Dilution Factor: 1		MDL.....: 0.27		
Barium	**139 J**	**28.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGWX81AK**
		Dilution Factor: 1		MDL.....: 0.10		
Selenium	ND	0.71	mg/kg	SW846 6010B	04/13-04/15/11	MGWX81AJ
		Dilution Factor: 1		MDL.....: 0.63		
Cadmium	ND	0.71	mg/kg	SW846 6010B	04/13-04/15/11	MGWX81AL
		Dilution Factor: 1		MDL.....: 0.051		
Chromium	**13.2**	**1.4**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGWX81AM**
		Dilution Factor: 1		MDL.....: 0.28		
Silver	ND	1.4	mg/kg	SW846 6010B	04/13-04/15/11	MGWX81AN
		Dilution Factor: 1		MDL.....: 0.14		
Mercury	**0.044 B**	**0.14**	**mg/kg**	**SW846 7471A**	**04/13-04/20/11**	**MGWX81AF**
		Dilution Factor: 1		MDL.....: 0.021		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-0710-0411

General Chemistry

Lot-Sample #...: A1D120528-001 **Work Order #...:** MGWX8 **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
% Moisture.....: 29

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**70.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103178**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**11 J,B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.38
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.7	ug/kg	0.50
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.38
Dibromochloromethane	ND	5.7	ug/kg	0.63
Chloroethane	ND	11	ug/kg	0.98
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.59
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.62
Ethylbenzene	ND	5.7	ug/kg	0.30
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**5.7 B**	**5.7**	**ug/kg**	**0.76**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
Tetrachloroethene	ND	5.7	ug/kg	0.59
Toluene	ND	5.7	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.45
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.7	ug/kg	0.76

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	110	(39 - 128)
Toluene-d8	102	(33 - 134)
4-Bromofluorobenzene	128	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 5
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	57	ug/kg	7.4
1,2-Dichlorobenzene	ND	29	ug/kg	2.1
1,3-Dichlorobenzene	ND	29	ug/kg	2.0
1,4-Dichlorobenzene	ND	29	ug/kg	3.8
1,1,2,2-Tetrachloroethane	ND	29	ug/kg	1.9
1,2,4-Trichloro-benzene	ND	29	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	94	(33 - 134)
4-Bromofluorobenzene	110	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1105334
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.6	ug/kg	3.8
Acenaphthylene	ND	7.6	ug/kg	3.8
Anthracene	ND	7.6	ug/kg	3.8
Benzo(a)anthracene	ND	7.6	ug/kg	3.8
Benzo(a)pyrene	ND	7.6	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.6	ug/kg	3.8
Benzo(ghi)perylene	**8.7**	**7.6**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	ND	7.6	ug/kg	3.8
Chrysene	**12**	**7.6**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.6	ug/kg	3.8
Fluoranthene	ND	7.6	ug/kg	3.8
Fluorene	ND	7.6	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.6	ug/kg	3.8
1-Methylnaphthalene	ND	7.6	ug/kg	3.8
2-Methylnaphthalene	ND	7.6	ug/kg	3.8
Naphthalene	ND	7.6	ug/kg	3.8
Phenanthrene	ND	7.6	ug/kg	3.8
Pyrene	ND	7.6	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(24 - 112)
2-Fluorobiphenyl	59	(34 - 110)
Terphenyl-d14	72	(41 - 119)
Phenol-d5	63	(28 - 110)
2-Fluorophenol	66	(26 - 110)
2,4,6-Tribromophenol	49	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC Volatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	52	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**61**	**19**	**mg/kg**	**11**
C10-C20	**39**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	47	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(10 - 196)
Decachlorobiphenyl	74	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

TOTAL Metals

Lot-Sample #...: A1D120528-002 **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**11.5**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0C1AG**
		Dilution Factor: 1		MDL.....: 0.34		
Lead	**11.6**	**0.34**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0C1AH**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**39.7 J**	**22.8**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0C1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Selenium	ND	0.57	mg/kg	SW846 6010B	04/13-04/15/11	MGW0C1AJ
		Dilution Factor: 1		MDL.....: 0.51		
Cadmium	**0.32 B**	**0.57**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0C1AL**
		Dilution Factor: 1		MDL.....: 0.041		
Chromium	**10.3**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0C1AM**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.1	mg/kg	SW846 6010B	04/13-04/15/11	MGW0C1AN
		Dilution Factor: 1		MDL.....: 0.11		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/13-04/20/11	MGW0C1AF
		Dilution Factor: 0.97		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB42-OLD-1720-0411

General Chemistry

Lot-Sample #...: A1D120528-002 **Work Order #...:** MGW0C **Matrix.....:** SO
Date Sampled...: 04/11/11 15:33 **Date Received..:** 04/12/11
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103178**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**69 B**	**23**	**ug/kg**	**7.2**
Benzene	**0.27 J**	**5.7**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.38
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	**8.2 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	**1.3 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.38
Dibromochloromethane	ND	5.7	ug/kg	0.63
Chloroethane	ND	11	ug/kg	0.99
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.60
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.62
Ethylbenzene	ND	5.7	ug/kg	0.30
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**8.2 B**	**5.7**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	**5.9 J,B**	**23**	**ug/kg**	**0.62**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
Tetrachloroethene	ND	5.7	ug/kg	0.60
Toluene	**0.73 J**	**5.7**	**ug/kg**	**0.31**
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.45
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	**0.82 J**	**5.7**	**ug/kg**	**0.77**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	101	(33 - 134)
4-Bromofluorobenzene	126	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	57	ug/kg	7.5
1,2-Dichlorobenzene	ND	29	ug/kg	2.1
1,3-Dichlorobenzene	ND	29	ug/kg	2.0
1,4-Dichlorobenzene	ND	29	ug/kg	3.8
1,1,2,2-Tetrachloroethane	ND	29	ug/kg	1.9
1,2,4-Trichloro-benzene	ND	29	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	100	(39 - 128)
Toluene-d8	90	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 20
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**1100**	**150**	**ug/kg**	**76**
Acenaphthylene	ND	150	ug/kg	76
Anthracene	**2700**	**150**	**ug/kg**	**76**
Benzo(a)anthracene	**7500**	**150**	**ug/kg**	**76**
Benzo(a)pyrene	**7000**	**150**	**ug/kg**	**76**
Benzo(b)fluoranthene	**8200**	**150**	**ug/kg**	**76**
Benzo(ghi)perylene	**4100**	**150**	**ug/kg**	**76**
Benzo(k)fluoranthene	**4700**	**150**	**ug/kg**	**76**
Chrysene	**8200**	**150**	**ug/kg**	**25**
Dibenz(a,h)anthracene	**1600**	**150**	**ug/kg**	**76**
Fluoranthene	**18000**	**150**	**ug/kg**	**76**
Fluorene	**850**	**150**	**ug/kg**	**76**
Indeno(1,2,3-cd)pyrene	**3300**	**150**	**ug/kg**	**76**
1-Methylnaphthalene	ND	150	ug/kg	76
2-Methylnaphthalene	**220**	**150**	**ug/kg**	**76**
Naphthalene	ND	150	ug/kg	76
Phenanthrene	**8800**	**150**	**ug/kg**	**76**
Pyrene	**13000**	**150**	**ug/kg**	**76**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	50 DIL	(24 - 112)
2-Fluorobiphenyl	62 DIL	(34 - 110)
Terphenyl-d14	82 DIL	(41 - 119)
Phenol-d5	40 DIL	(28 - 110)
2-Fluorophenol	68 DIL	(26 - 110)
2,4,6-Tribromophenol	0.0 DIL,*	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC Volatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	72	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 10
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**1200**	**190**	**mg/kg**	**110**
C10-C20	**120 J**	**190**	**mg/kg**	**110**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	41 DIL	(10 - 110)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	**40**	**38**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	61	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

TOTAL Metals

Lot-Sample #...: A1D120528-003 **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**43.1**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0D1AG**
		Dilution Factor: 1		MDL.....: 0.34		
Lead	**33.9**	**0.34**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0D1AH**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**60.5 J**	**22.9**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0D1AK**
		Dilution Factor: 1		MDL.....: 0.081		
Selenium	ND	0.57	mg/kg	SW846 6010B	04/13-04/15/11	MGW0D1AJ
		Dilution Factor: 1		MDL.....: 0.52		
Cadmium	**0.24 B**	**0.57**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0D1AL**
		Dilution Factor: 1		MDL.....: 0.041		
Chromium	**13.3**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0D1AM**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.1	mg/kg	SW846 6010B	04/13-04/15/11	MGW0D1AN
		Dilution Factor: 1		MDL.....: 0.11		
Mercury	**0.024 B**	**0.081**	**mg/kg**	**SW846 7471A**	**04/13-04/20/11**	**MGW0D1AF**
		Dilution Factor: 0.71		MDL.....: 0.012		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-255-0411

General Chemistry

Lot-Sample #...: A1D120528-003 **Work Order #...:** MGW0D **Matrix.....:** SO
Date Sampled...: 04/11/11 10:29 **Date Received..:** 04/12/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103178**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**49 B**	**22**	**ug/kg**	**7.0**
Benzene	ND	5.6	ug/kg	0.26
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromoform	ND	5.6	ug/kg	0.37
Bromomethane	ND	11	ug/kg	0.60
2-Butanone	**9.7 J**	**22**	**ug/kg**	**1.6**
Carbon disulfide	**1.3 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.41
Chlorobenzene	ND	5.6	ug/kg	0.37
Dibromochloromethane	ND	5.6	ug/kg	0.61
Chloroethane	ND	11	ug/kg	0.96
Chloroform	ND	5.6	ug/kg	0.32
Chloromethane	ND	11	ug/kg	0.46
1,2-Dibromoethane	ND	5.6	ug/kg	0.56
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.77
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.60
Ethylbenzene	ND	5.6	ug/kg	0.29
n-Hexane	ND	5.6	ug/kg	1.3
2-Hexanone	ND	22	ug/kg	0.70
Isopropylbenzene	ND	5.6	ug/kg	0.18
Methylene chloride	**6.5 B**	**5.6**	**ug/kg**	**0.75**
4-Methyl-2-pentanone	ND	22	ug/kg	0.60
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
Styrene	ND	5.6	ug/kg	0.17
Tetrachloroethene	ND	5.6	ug/kg	0.58
Toluene	**0.64 J**	**5.6**	**ug/kg**	**0.30**
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.62
1,1,2-Trichloroethane	ND	5.6	ug/kg	0.43
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38

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Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.2	ug/kg	0.43
Xylenes (total)	ND	5.6	ug/kg	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	113	(33 - 134)
4-Bromofluorobenzene	142 *	(26 - 141)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	56	ug/kg	7.2
1,2-Dichlorobenzene	ND	28	ug/kg	2.0
1,3-Dichlorobenzene	ND	28	ug/kg	1.9
1,4-Dichlorobenzene	ND	28	ug/kg	3.7
1,1,2,2-Tetrachloroethane	ND	28	ug/kg	1.9
1,2,4-Trichloro-benzene	ND	28	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	94	(33 - 134)
4-Bromofluorobenzene	115	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.4	ug/kg	3.7
Acenaphthylene	ND	7.4	ug/kg	3.7
Anthracene	**15**	**7.4**	**ug/kg**	**3.7**
Benzo(a)anthracene	**33**	**7.4**	**ug/kg**	**3.7**
Benzo(a)pyrene	**39**	**7.4**	**ug/kg**	**3.7**
Benzo(b)fluoranthene	**49**	**7.4**	**ug/kg**	**3.7**
Benzo(ghi)perylene	**38**	**7.4**	**ug/kg**	**3.7**
Benzo(k)fluoranthene	**24**	**7.4**	**ug/kg**	**3.7**
Chrysene	**47**	**7.4**	**ug/kg**	**1.2**
Dibenz(a,h)anthracene	**7.4**	**7.4**	**ug/kg**	**3.7**
Fluoranthene	**77**	**7.4**	**ug/kg**	**3.7**
Fluorene	ND	7.4	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	**21**	**7.4**	**ug/kg**	**3.7**
1-Methylnaphthalene	ND	7.4	ug/kg	3.7
2-Methylnaphthalene	**8.3**	**7.4**	**ug/kg**	**3.7**
Naphthalene	ND	7.4	ug/kg	3.7
Phenanthrene	**54**	**7.4**	**ug/kg**	**3.7**
Pyrene	**80**	**7.4**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	55	(34 - 110)
Terphenyl-d14	69	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	60	(26 - 110)
2,4,6-Tribromophenol	42	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC Volatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	60	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 5
% Moisture.....: 10 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**130**	**93**	**mg/kg**	**52**
C10-C20	ND	93	mg/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	37 DIL	(10 - 110)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	23
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	14
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	60	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

TOTAL Metals

Lot-Sample #...: A1D120528-004 **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**18.5**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0E1AG**
		Dilution Factor: 1		MDL.....: 0.33		
Lead	**18.4**	**0.33**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0E1AH**
		Dilution Factor: 1		MDL.....: 0.21		
Barium	**56.9 J**	**22.3**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0E1AK**
		Dilution Factor: 1		MDL.....: 0.079		
Selenium	ND	0.56	mg/kg	SW846 6010B	04/13-04/15/11	MGW0E1AJ
		Dilution Factor: 1		MDL.....: 0.50		
Cadmium	**0.39 B**	**0.56**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0E1AL**
		Dilution Factor: 1		MDL.....: 0.040		
Chromium	**11.8**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0E1AM**
		Dilution Factor: 1		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/13-04/15/11	MGW0E1AN
		Dilution Factor: 1		MDL.....: 0.11		
Mercury	ND	0.080	mg/kg	SW846 7471A	04/13-04/20/11	MGW0E1AF
		Dilution Factor: 0.72		MDL.....: 0.012		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-1012-0411

General Chemistry

Lot-Sample #...: A1D120528-004 **Work Order #...:** MGW0E **Matrix.....:** SO
Date Sampled...: 04/11/11 10:46 **Date Received..:** 04/12/11
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103178**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**16 J,B**	**23**	**ug/kg**	**7.3**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.33
Bromoform	ND	5.8	ug/kg	0.38
Bromomethane	ND	12	ug/kg	0.63
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.8	ug/kg	0.51
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chlorobenzene	ND	5.8	ug/kg	0.38
Dibromochloromethane	ND	5.8	ug/kg	0.64
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.8	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
1,2-Dibromoethane	ND	5.8	ug/kg	0.58
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.42
1,2-Dichloroethane	ND	5.8	ug/kg	0.40
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.48
1,1-Dichloroethene	ND	5.8	ug/kg	0.61
1,2-Dichloropropane	ND	5.8	ug/kg	0.80
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.8	ug/kg	0.63
Ethylbenzene	ND	5.8	ug/kg	0.30
n-Hexane	ND	5.8	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.73
Isopropylbenzene	ND	5.8	ug/kg	0.19
Methylene chloride	**9.0 B**	**5.8**	**ug/kg**	**0.78**
4-Methyl-2-pentanone	ND	23	ug/kg	0.63
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.50
Styrene	ND	5.8	ug/kg	0.17
Tetrachloroethene	ND	5.8	ug/kg	0.61
Toluene	**0.36 J**	**5.8**	**ug/kg**	**0.31**
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
1,1,2-Trichloroethane	ND	5.8	ug/kg	0.45
Trichloroethene	ND	5.8	ug/kg	0.49
Trichlorofluoromethane	ND	12	ug/kg	0.40

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.8	ug/kg	0.78

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	111	(33 - 134)
4-Bromofluorobenzene	137	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109161
Dilution Factor: 10
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	120	ug/kg	15
1,2-Dichlorobenzene	ND	58	ug/kg	4.2
1,3-Dichlorobenzene	ND	58	ug/kg	4.1
1,4-Dichlorobenzene	ND	58	ug/kg	7.7
1,1,2,2-Tetrachloroethane	ND	58	ug/kg	4.0
1,2,4-Trichloro-benzene	ND	58	ug/kg	3.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	94	(39 - 128)
Toluene-d8	98	(33 - 134)
4-Bromofluorobenzene	114	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1105334
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.8	ug/kg	3.8
Acenaphthylene	ND	7.8	ug/kg	3.8
Anthracene	ND	7.8	ug/kg	3.8
Benzo(a)anthracene	ND	7.8	ug/kg	3.8
Benzo(a)pyrene	ND	7.8	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.8	ug/kg	3.8
Benzo(ghi)perylene	**11**	**7.8**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	ND	7.8	ug/kg	3.8
Chrysene	**30**	**7.8**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.8	ug/kg	3.8
Fluoranthene	ND	7.8	ug/kg	3.8
Fluorene	ND	7.8	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.8	ug/kg	3.8
1-Methylnaphthalene	ND	7.8	ug/kg	3.8
2-Methylnaphthalene	ND	7.8	ug/kg	3.8
Naphthalene	ND	7.8	ug/kg	3.8
Phenanthrene	**44**	**7.8**	**ug/kg**	**3.8**
Pyrene	ND	7.8	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(24 - 112)
2-Fluorobiphenyl	57	(34 - 110)
Terphenyl-d14	73	(41 - 119)
Phenol-d5	65	(28 - 110)
2-Fluorophenol	65	(26 - 110)
2,4,6-Tribromophenol	45	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC Volatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	55	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**110**	**19**	**mg/kg**	**11**
C10-C20	**58**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	42	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(10 - 196)
Decachlorobiphenyl	61	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

TOTAL Metals

Lot-Sample #...: A1D120528-005 **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**14.6**	**1.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0F1AG**
		Dilution Factor: 1		MDL.....: 0.35		
Lead	**11.7**	**0.35**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0F1AH**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**50.5 J**	**23.3**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0F1AK**
		Dilution Factor: 1		MDL.....: 0.083		
Selenium	ND	0.58	mg/kg	SW846 6010B	04/13-04/15/11	MGW0F1AJ
		Dilution Factor: 1		MDL.....: 0.52		
Cadmium	**0.16 B**	**0.58**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0F1AL**
		Dilution Factor: 1		MDL.....: 0.042		
Chromium	**10.7**	**1.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0F1AM**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.2	mg/kg	SW846 6010B	04/13-04/15/11	MGW0F1AN
		Dilution Factor: 1		MDL.....: 0.12		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/13-04/20/11	MGW0F1AF
		Dilution Factor: 0.97		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB45-OLD-2730-0411

General Chemistry

Lot-Sample #...: A1D120528-005 **Work Order #...:** MGW0F **Matrix.....:** SO
Date Sampled...: 04/11/11 11:07 **Date Received..:** 04/12/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103316**
	Dilution Factor: 1			MDL.....: 10.0		

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**29 B**	**22**	**ug/kg**	**7.0**
Benzene	ND	5.6	ug/kg	0.26
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromomethane	ND	11	ug/kg	0.60
2-Butanone	ND	22	ug/kg	1.6
Carbon disulfide	**2.6 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.41
Chloroethane	ND	11	ug/kg	0.96
Chloroform	ND	5.6	ug/kg	0.32
Chloromethane	ND	11	ug/kg	0.46
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.77
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
n-Hexane	ND	5.6	ug/kg	1.3
Methylene chloride	**15 B**	**5.6**	**ug/kg**	**0.75**
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.62
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.2	ug/kg	0.43

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(30 - 122)
1,2-Dichloroethane-d4	121	(39 - 128)
Toluene-d8	125	(33 - 134)
4-Bromofluorobenzene	151 *	(26 - 141)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1110146
Dilution Factor: 0.99
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	280	ug/kg	14
Chlorobenzene	ND	280	ug/kg	7.0
Dibromochloromethane	ND	280	ug/kg	7.6
1,2-Dibromo-3-chloro-propane	ND	550	ug/kg	66
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	280	ug/kg	19
1,3-Dichlorobenzene	ND	280	ug/kg	7.9
1,4-Dichlorobenzene	ND	280	ug/kg	8.7
trans-1,3-Dichloropropene	ND	280	ug/kg	6.0
Ethylbenzene	ND	280	ug/kg	7.5
2-Hexanone	ND	1100	ug/kg	26
Isopropylbenzene	ND	280	ug/kg	5.6
4-Methyl-2-pentanone	ND	1100	ug/kg	12
Styrene	ND	280	ug/kg	31
1,1,2,2-Tetrachloroethane	ND	280	ug/kg	9.1
Tetrachloroethene	ND	280	ug/kg	9.9
Toluene	ND	280	ug/kg	10
1,2,4-Trichloro-benzene	ND	280	ug/kg	13
1,1,2-Trichloroethane	ND	280	ug/kg	11
Xylenes (total)	ND	280	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	80	(30 - 122)
1,2-Dichloroethane-d4	79	(39 - 128)
Toluene-d8	68	(33 - 134)
4-Bromofluorobenzene	76	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105334
Dilution Factor: 2.5
% Moisture.....: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	19	ug/kg	9.2
Acenaphthylene	ND	19	ug/kg	9.2
Anthracene	ND	19	ug/kg	9.2
Benzo(a)anthracene	ND	19	ug/kg	9.2
Benzo(a)pyrene	ND	19	ug/kg	9.2
Benzo(b)fluoranthene	ND	19	ug/kg	9.2
Benzo(ghi)perylene	ND	19	ug/kg	9.2
Benzo(k)fluoranthene	ND	19	ug/kg	9.2
Chrysene	ND	19	ug/kg	3.1
Dibenz(a,h)anthracene	ND	19	ug/kg	9.2
Fluoranthene	ND	19	ug/kg	9.2
Fluorene	ND	19	ug/kg	9.2
Indeno(1,2,3-cd)pyrene	ND	19	ug/kg	9.2
1-Methylnaphthalene	**63**	**19**	**ug/kg**	**9.2**
2-Methylnaphthalene	**63**	**19**	**ug/kg**	**9.2**
Naphthalene	ND	19	ug/kg	9.2
Phenanthrene	**60**	**19**	**ug/kg**	**9.2**
Pyrene	**22**	**19**	**ug/kg**	**9.2**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	34 DIL	(24 - 112)
2-Fluorobiphenyl	48 DIL	(34 - 110)
Terphenyl-d14	58 DIL	(41 - 119)
Phenol-d5	45 DIL	(28 - 110)
2-Fluorophenol	45 DIL	(26 - 110)
2,4,6-Tribromophenol	29 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC Volatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	82	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**180**	**19**	**mg/kg**	**10**
C10-C20	**150**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	33	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	23
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	14
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	61	(10 - 196)
Decachlorobiphenyl	59	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

TOTAL Metals

Lot-Sample #...: A1D120528-006 **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**11.9**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0G1AG**
		Dilution Factor: 1		MDL.....: 0.33		
Lead	**11.3**	**0.33**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0G1AH**
		Dilution Factor: 1		MDL.....: 0.21		
Barium	**37.0 J**	**22.3**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0G1AK**
		Dilution Factor: 1		MDL.....: 0.079		
Selenium	ND	0.56	mg/kg	SW846 6010B	04/13-04/15/11	MGW0G1AJ
		Dilution Factor: 1		MDL.....: 0.50		
Cadmium	**0.39 B**	**0.56**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0G1AL**
		Dilution Factor: 1		MDL.....: 0.040		
Chromium	**9.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0G1AM**
		Dilution Factor: 1		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/13-04/15/11	MGW0G1AN
		Dilution Factor: 1		MDL.....: 0.11		
Mercury	ND	0.10	mg/kg	SW846 7471A	04/13-04/20/11	MGW0G1AF
		Dilution Factor: 0.91		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-1725-0411

General Chemistry

Lot-Sample #...: A1D120528-006 **Work Order #...:** MGW0G **Matrix.....:** SO
Date Sampled...: 04/11/11 12:05 **Date Received..:** 04/12/11
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103316**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**53 B**	**25**	**ug/kg**	**7.9**
Benzene	**0.40 J**	**6.3**	**ug/kg**	**0.29**
Bromodichloromethane	ND	6.3	ug/kg	0.35
Bromoform	ND	6.3	ug/kg	0.41
Bromomethane	ND	13	ug/kg	0.68
2-Butanone	ND	25	ug/kg	1.8
Carbon disulfide	ND	6.3	ug/kg	0.55
Carbon tetrachloride	ND	6.3	ug/kg	0.46
Chlorobenzene	ND	6.3	ug/kg	0.41
Dibromochloromethane	ND	6.3	ug/kg	0.69
Chloroethane	ND	13	ug/kg	1.1
Chloroform	ND	6.3	ug/kg	0.36
Chloromethane	ND	13	ug/kg	0.51
1,2-Dibromoethane	ND	6.3	ug/kg	0.63
Dichlorodifluoromethane	ND	13	ug/kg	0.63
1,1-Dichloroethane	ND	6.3	ug/kg	0.45
1,2-Dichloroethane	**0.60 J**	**6.3**	**ug/kg**	**0.43**
cis-1,2-Dichloroethene	ND	3.1	ug/kg	0.45
trans-1,2-Dichloroethene	ND	3.1	ug/kg	0.51
1,1-Dichloroethene	ND	6.3	ug/kg	0.65
1,2-Dichloropropane	ND	6.3	ug/kg	0.86
cis-1,3-Dichloropropene	ND	6.3	ug/kg	0.43
trans-1,3-Dichloropropene	ND	6.3	ug/kg	0.68
Ethylbenzene	ND	6.3	ug/kg	0.33
n-Hexane	ND	6.3	ug/kg	1.5
2-Hexanone	ND	25	ug/kg	0.79
Isopropylbenzene	ND	6.3	ug/kg	0.20
Methylene chloride	**11 B**	**6.3**	**ug/kg**	**0.84**
4-Methyl-2-pentanone	ND	25	ug/kg	0.68
Methyl tert-butyl ether (MTBE)	ND	25	ug/kg	0.54
Styrene	ND	6.3	ug/kg	0.19
Tetrachloroethene	ND	6.3	ug/kg	0.65
Toluene	**0.81 J**	**6.3**	**ug/kg**	**0.34**
1,1,1-Trichloroethane	ND	6.3	ug/kg	0.70
1,1,2-Trichloroethane	ND	6.3	ug/kg	0.49
Trichloroethene	ND	6.3	ug/kg	0.53
Trichlorofluoromethane	ND	13	ug/kg	0.43

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.5	ug/kg	0.49
Xylenes (total)	ND	6.3	ug/kg	0.84

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(30 - 122)
1,2-Dichloroethane-d4	112	(39 - 128)
Toluene-d8	110	(33 - 134)
4-Bromofluorobenzene	127	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 20 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	63	ug/kg	8.1
1,2-Dichlorobenzene	ND	31	ug/kg	2.3
1,3-Dichlorobenzene	ND	31	ug/kg	2.2
1,4-Dichlorobenzene	ND	31	ug/kg	4.1
1,1,2,2-Tetrachloroethane	ND	31	ug/kg	2.1
1,2,4-Trichloro-benzene	ND	31	ug/kg	1.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	91	(33 - 134)
4-Bromofluorobenzene	106	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 500
% Moisture.....: 20 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**62000**	**4200**	**ug/kg**	**2100**
Acenaphthylene	ND	4200	ug/kg	2100
Anthracene	**120000**	**4200**	**ug/kg**	**2100**
Benzo(a)anthracene	**230000**	**4200**	**ug/kg**	**2100**
Benzo(a)pyrene	**190000**	**4200**	**ug/kg**	**2100**
Benzo(b)fluoranthene	**210000**	**4200**	**ug/kg**	**2100**
Benzo(ghi)perylene	**98000**	**4200**	**ug/kg**	**2100**
Benzo(k)fluoranthene	**170000**	**4200**	**ug/kg**	**2100**
Chrysene	**250000**	**4200**	**ug/kg**	**690**
Dibenz(a,h)anthracene	**34000**	**4200**	**ug/kg**	**2100**
Fluoranthene	**650000**	**4200**	**ug/kg**	**2100**
Fluorene	**51000**	**4200**	**ug/kg**	**2100**
Indeno(1,2,3-cd)pyrene	**93000**	**4200**	**ug/kg**	**2100**
1-Methylnaphthalene	**8500**	**4200**	**ug/kg**	**2100**
2-Methylnaphthalene	**13000**	**4200**	**ug/kg**	**2100**
Naphthalene	**11000**	**4200**	**ug/kg**	**2100**
Phenanthrene	**510000**	**4200**	**ug/kg**	**2100**
Pyrene	**450000**	**4200**	**ug/kg**	**2100**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	0.0 DIL,*	(24 - 112)
2-Fluorobiphenyl	0.0 DIL,*	(34 - 110)
Terphenyl-d14	0.0 DIL,*	(41 - 119)
Phenol-d5	0.0 DIL,*	(28 - 110)
2-Fluorophenol	0.0 DIL,*	(26 - 110)
2,4,6-Tribromophenol	0.0 DIL,*	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC Volatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	130	ug/kg	58

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	73	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1104048
Dilution Factor: 100
% Moisture.....: 20 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**19000**	**2100**	**mg/kg**	**1200**
C10-C20	**4400**	**2100**	**mg/kg**	**1200**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45 DIL	(10 - 110)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	41	ug/kg	26
Aroclor 1221	ND	41	ug/kg	20
Aroclor 1232	ND	41	ug/kg	18
Aroclor 1242	ND	41	ug/kg	16
Aroclor 1248	ND	41	ug/kg	21
Aroclor 1254	**21 J**	**41**	**ug/kg**	**21**
Aroclor 1260	ND	41	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	26	(10 - 196)
Decachlorobiphenyl	32	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

TOTAL Metals

Lot-Sample #...: A1D120528-007 **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**16.0**	**1.3**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0H1AG**
		Dilution Factor: 1		MDL.....: 0.38		
Lead	**57.2**	**0.38**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0H1AH**
		Dilution Factor: 1		MDL.....: 0.24		
Barium	**60.4 J**	**25.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0H1AK**
		Dilution Factor: 1		MDL.....: 0.089		
Selenium	ND	0.63	mg/kg	SW846 6010B	04/13-04/15/11	MGW0H1AJ
		Dilution Factor: 1		MDL.....: 0.56		
Cadmium	**0.64**	**0.63**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0H1AL**
		Dilution Factor: 1		MDL.....: 0.045		
Chromium	**15.9**	**1.3**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0H1AM**
		Dilution Factor: 1		MDL.....: 0.25		
Silver	ND	1.3	mg/kg	SW846 6010B	04/13-04/15/11	MGW0H1AN
		Dilution Factor: 1		MDL.....: 0.13		
Mercury	**0.059 B**	**0.097**	**mg/kg**	**SW846 7471A**	**04/13-04/20/11**	**MGW0H1AF**
		Dilution Factor: 0.77		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB43-OLD-025-0411

General Chemistry

Lot-Sample #...: A1D120528-007 **Work Order #...:** MGW0H **Matrix.....:** SO
Date Sampled...: 04/11/11 11:48 **Date Received..:** 04/12/11
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**79.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103316**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**21 J,B**	**23**	**ug/kg**	**7.3**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.32
Bromomethane	ND	12	ug/kg	0.63
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**0.91 J**	**5.8**	**ug/kg**	**0.51**
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.8	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	**24**	**5.8**	**ug/kg**	**0.42**
1,2-Dichloroethane	ND	5.8	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.48
1,1-Dichloroethene	ND	5.8	ug/kg	0.60
1,2-Dichloropropane	ND	5.8	ug/kg	0.80
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.39
n-Hexane	ND	5.8	ug/kg	1.4
Methylene chloride	**5.2 J,B**	**5.8**	**ug/kg**	**0.78**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.50
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
Trichloroethene	ND	5.8	ug/kg	0.49
Trichlorofluoromethane	ND	12	ug/kg	0.39
Vinyl chloride	ND	2.3	ug/kg	0.45

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(30 - 122)
1,2-Dichloroethane-d4	112	(39 - 128)
Toluene-d8	118	(33 - 134)
4-Bromofluorobenzene	133	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1110146
Dilution Factor: 0.99
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	290	ug/kg	15
Chlorobenzene	ND	290	ug/kg	7.2
Dibromochloromethane	ND	290	ug/kg	7.9
1,2-Dibromo-3-chloro-propane	ND	570	ug/kg	69
1,2-Dibromoethane	ND	290	ug/kg	11
1,2-Dichlorobenzene	ND	290	ug/kg	20
1,3-Dichlorobenzene	ND	290	ug/kg	8.3
1,4-Dichlorobenzene	ND	290	ug/kg	9.1
trans-1,3-Dichloropropene	ND	290	ug/kg	6.2
Ethylbenzene	ND	290	ug/kg	7.8
2-Hexanone	ND	1100	ug/kg	28
Isopropylbenzene	ND	290	ug/kg	5.9
4-Methyl-2-pentanone	ND	1100	ug/kg	13
Styrene	ND	290	ug/kg	32
1,1,2,2-Tetrachloroethane	ND	290	ug/kg	9.4
Tetrachloroethene	ND	290	ug/kg	10
Toluene	ND	290	ug/kg	10
1,2,4-Trichloro-benzene	ND	290	ug/kg	14
1,1,2-Trichloroethane	ND	290	ug/kg	11
Xylenes (total)	ND	290	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(30 - 122)
1,2-Dichloroethane-d4	75	(39 - 128)
Toluene-d8	71	(33 - 134)
4-Bromofluorobenzene	71	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105334
Dilution Factor: 4
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	31	ug/kg	15
Acenaphthylene	ND	31	ug/kg	15
Anthracene	ND	31	ug/kg	15
Benzo(a)anthracene	ND	31	ug/kg	15
Benzo(a)pyrene	ND	31	ug/kg	15
Benzo(b)fluoranthene	ND	31	ug/kg	15
Benzo(ghi)perylene	ND	31	ug/kg	15
Benzo(k)fluoranthene	ND	31	ug/kg	15
Chrysene	ND	31	ug/kg	5.1
Dibenz(a,h)anthracene	ND	31	ug/kg	15
Fluoranthene	ND	31	ug/kg	15
Fluorene	ND	31	ug/kg	15
Indeno(1,2,3-cd)pyrene	ND	31	ug/kg	15
1-Methylnaphthalene	ND	31	ug/kg	15
2-Methylnaphthalene	ND	31	ug/kg	15
Naphthalene	ND	31	ug/kg	15
Phenanthrene	**49**	**31**	**ug/kg**	**15**
Pyrene	ND	31	ug/kg	15

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	34 DIL	(24 - 112)
2-Fluorobiphenyl	48 DIL	(34 - 110)
Terphenyl-d14	58 DIL	(41 - 119)
Phenol-d5	43 DIL	(28 - 110)
2-Fluorophenol	45 DIL	(26 - 110)
2,4,6-Tribromophenol	30 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC Volatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	63	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**150**	**19**	**mg/kg**	**11**
C10-C20	**98**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	69	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

TOTAL Metals

Lot-Sample #...: A1D120528-008 **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**13.0**	**1.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0K1AG**
		Dilution Factor: 1		MDL.....: 0.35		
Lead	**12.5**	**0.35**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0K1AH**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**27.6 J**	**23.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0K1AK**
		Dilution Factor: 1		MDL.....: 0.082		
Selenium	ND	0.58	mg/kg	SW846 6010B	04/13-04/15/11	MGW0K1AJ
		Dilution Factor: 1		MDL.....: 0.52		
Cadmium	**0.21 B**	**0.58**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0K1AL**
		Dilution Factor: 1		MDL.....: 0.042		
Chromium	**10.7**	**1.2**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0K1AM**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.2	mg/kg	SW846 6010B	04/13-04/15/11	MGW0K1AN
		Dilution Factor: 1		MDL.....: 0.12		
Mercury	ND	0.10	mg/kg	SW846 7471A	04/13-04/20/11	MGW0K1AF
		Dilution Factor: 0.87		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-1215-0411

General Chemistry

Lot-Sample #...: A1D120528-008 **Work Order #...:** MGW0K **Matrix.....:** SO
Date Sampled...: 04/11/11 14:16 **Date Received..:** 04/12/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103316**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AE **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**64 B**	**23**	**ug/kg**	**7.1**
Benzene	**0.30 J**	**5.6**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.6	ug/kg	0.32
Bromoform	ND	5.6	ug/kg	0.37
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**1.3 J**	**5.6**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.6	ug/kg	0.42
Chlorobenzene	ND	5.6	ug/kg	0.37
Dibromochloromethane	ND	5.6	ug/kg	0.62
Chloroethane	ND	11	ug/kg	0.97
Chloroform	ND	5.6	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.46
1,2-Dibromoethane	ND	5.6	ug/kg	0.56
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	**12**	**5.6**	**ug/kg**	**0.41**
1,2-Dichloroethane	**0.68 J**	**5.6**	**ug/kg**	**0.38**
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.59
1,2-Dichloropropane	ND	5.6	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
trans-1,3-Dichloropropene	ND	5.6	ug/kg	0.61
Ethylbenzene	ND	5.6	ug/kg	0.29
n-Hexane	ND	5.6	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.71
Isopropylbenzene	ND	5.6	ug/kg	0.18
Methylene chloride	**9.3 B**	**5.6**	**ug/kg**	**0.75**
4-Methyl-2-pentanone	ND	23	ug/kg	0.61
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.48
Styrene	ND	5.6	ug/kg	0.17
Tetrachloroethene	ND	5.6	ug/kg	0.59
Toluene	**0.42 J**	**5.6**	**ug/kg**	**0.30**
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.63
1,1,2-Trichloroethane	ND	5.6	ug/kg	0.44
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38

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Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AE **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.44
Xylenes (total)	ND	5.6	ug/kg	0.75

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(30 - 122)
1,2-Dichloroethane-d4	109	(39 - 128)
Toluene-d8	106	(33 - 134)
4-Bromofluorobenzene	130	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L2AE **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	56	ug/kg	7.3
1,2-Dichlorobenzene	ND	28	ug/kg	2.0
1,3-Dichlorobenzene	ND	28	ug/kg	2.0
1,4-Dichlorobenzene	ND	28	ug/kg	3.7
1,1,2,2-Tetrachloroethane	ND	28	ug/kg	1.9
1,2,4-Trichloro-benzene	ND	28	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	104	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	110	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AQ **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105334
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	ND	7.5	ug/kg	1.2
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**11**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**10**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**20**	**7.5**	**ug/kg**	**3.7**
Pyrene	**11**	**7.5**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	46	(24 - 112)
2-Fluorobiphenyl	55	(34 - 110)
Terphenyl-d14	69	(41 - 119)
Phenol-d5	54	(28 - 110)
2-Fluorophenol	55	(26 - 110)
2,4,6-Tribromophenol	43	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC Volatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AA **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	78	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AC **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**120**	**19**	**mg/kg**	**10**
C10-C20	**94**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L1AP **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	66	(10 - 196)
Decachlorobiphenyl	62	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

TOTAL Metals

Lot-Sample #...: A1D120528-009 **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1103024						
Arsenic	**13.4**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0L1AG**
		Dilution Factor: 1		MDL.....: 0.34		
Lead	**12.5**	**0.34**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0L1AH**
		Dilution Factor: 1		MDL.....: 0.21		
Barium	**56.4 J**	**22.5**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0L1AK**
		Dilution Factor: 1		MDL.....: 0.080		
Selenium	ND	0.56	mg/kg	SW846 6010B	04/13-04/15/11	MGW0L1AJ
		Dilution Factor: 1		MDL.....: 0.51		
Cadmium	**0.35 B**	**0.56**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0L1AL**
		Dilution Factor: 1		MDL.....: 0.041		
Chromium	**11.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGW0L1AM**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.1	mg/kg	SW846 6010B	04/13-04/15/11	MGW0L1AN
		Dilution Factor: 1		MDL.....: 0.11		
Mercury	ND	0.084	mg/kg	SW846 7471A	04/13-04/20/11	MGW0L1AF
		Dilution Factor: 0.75		MDL.....: 0.013		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB41-OLD-255-0411

General Chemistry

Lot-Sample #...: A1D120528-009 **Work Order #...:** MGW0L **Matrix.....:** SO
Date Sampled...: 04/11/11 14:07 **Date Received..:** 04/12/11
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/13-04/14/11**	**1103316**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: GW43-OLD-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-010 **Work Order #...:** MGW0M1AC **Matrix.....:** GW
Date Sampled...: 04/11/11 13:50 **Date Received..:** 04/12/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**7.2 J**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	**0.17 J**	**1.0**	**ug/L**	**0.15**
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	**1.0 J**	**10**	**ug/L**	**0.57**
Carbon disulfide	**0.43 J**	**1.0**	**ug/L**	**0.13**
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**0.50 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW43-OLD-0411

GC/MS Volatiles

Lot-Sample #...: A1D120528-010 **Work Order #...:** MGW0M1AC **Matrix.....:** GW

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.32 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
Toluene-d8	91	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: GW43-OLD-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-010 **Work Order #...:** MGW0M1AD **Matrix.....:** GW
Date Sampled...: 04/11/11 13:50 **Date Received..:** 04/12/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1103053
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**12**	**0.20**	**ug/L**	**0.10**
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	**28**	**0.20**	**ug/L**	**0.10**
Benzo(a)pyrene	**22**	**0.20**	**ug/L**	**0.10**
Benzo(b)fluoranthene	**29**	**0.20**	**ug/L**	**0.10**
Benzo(ghi)perylene	**12**	**0.20**	**ug/L**	**0.10**
Benzo(k)fluoranthene	**12**	**0.20**	**ug/L**	**0.10**
Chrysene	**29**	**0.20**	**ug/L**	**0.10**
Dibenz(a,h)anthracene	**3.6**	**0.20**	**ug/L**	**0.10**
Fluoranthene	**74 E**	**0.20**	**ug/L**	**0.10**
Fluorene	**9.3**	**0.20**	**ug/L**	**0.10**
Indeno(1,2,3-cd)pyrene	**12**	**0.20**	**ug/L**	**0.10**
1-Methylnaphthalene	**2.3**	**0.20**	**ug/L**	**0.10**
2-Methylnaphthalene	**3.3**	**0.20**	**ug/L**	**0.10**
Naphthalene	**3.3**	**0.20**	**ug/L**	**0.10**
Phenanthrene	**66 E**	**0.20**	**ug/L**	**0.10**
Pyrene	**60 E**	**0.20**	**ug/L**	**0.10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(27 - 111)
2-Fluorobiphenyl	43	(28 - 110)
Terphenyl-d14	13 *	(37 - 119)
Phenol-d5	59	(10 - 110)
2-Fluorophenol	58	(10 - 110)
2,4,6-Tribromophenol	61	(22 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

E Estimated result. Result concentration exceeds the calibration range.

Ohio Environmental Protection Agency

Client Sample ID: GW43-OLD-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D120528-010 **Work Order #...:** MGW0M2AD **Matrix.....:** GW
Date Sampled...: 04/11/11 13:50 **Date Received..:** 04/12/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/25/11
Prep Batch #...: 1103053
Dilution Factor: 2.5 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**13**	**0.50**	**ug/L**	**0.25**
Acenaphthylene	ND	0.50	ug/L	0.25
Anthracene	**15**	**0.50**	**ug/L**	**0.25**
Benzo(a)anthracene	**27**	**0.50**	**ug/L**	**0.25**
Benzo(a)pyrene	**20**	**0.50**	**ug/L**	**0.25**
Benzo(b)fluoranthene	**30**	**0.50**	**ug/L**	**0.25**
Benzo(ghi)perylene	**12**	**0.50**	**ug/L**	**0.25**
Benzo(k)fluoranthene	**11**	**0.50**	**ug/L**	**0.25**
Chrysene	**28**	**0.50**	**ug/L**	**0.25**
Dibenz(a,h)anthracene	ND	0.50	ug/L	0.25
Fluoranthene	**91**	**0.50**	**ug/L**	**0.25**
Fluorene	**8.6**	**0.50**	**ug/L**	**0.25**
Indeno(1,2,3-cd)pyrene	**11**	**0.50**	**ug/L**	**0.25**
1-Methylnaphthalene	**1.9**	**0.50**	**ug/L**	**0.25**
2-Methylnaphthalene	**2.8**	**0.50**	**ug/L**	**0.25**
Naphthalene	**3.1**	**0.50**	**ug/L**	**0.25**
Phenanthrene	**87**	**0.50**	**ug/L**	**0.25**
Pyrene	**63**	**0.50**	**ug/L**	**0.25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	50 DIL	(27 - 111)
2-Fluorobiphenyl	42 DIL	(28 - 110)
Terphenyl-d14	11 DIL,*	(37 - 119)
Phenol-d5	55 DIL	(10 - 110)
2-Fluorophenol	57 DIL	(10 - 110)
2,4,6-Tribromophenol	50 DIL	(22 - 120)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Ohio Environmental Protection Agency

Client Sample ID: GW43-OLD-0411

GC Semivolatiles

Lot-Sample #...: A1D120528-010 **Work Order #...:** MGW0M1AA **Matrix.....:** GW
Date Sampled...: 04/11/11 13:50 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105335
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**2100**	**500**	**ug/L**	**240**
C10-C20	**650**	**500**	**ug/L**	**240**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	51	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D120528-011 **Work Order #...:** MGW0R1AA **Matrix.....:** WQ
Date Sampled...: 04/11/11 18:10 **Date Received..:** 04/12/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**13**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**0.25 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	**0.36 J**	**1.0**	**ug/L**	**0.19**
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	**9.5**	**1.0**	**ug/L**	**0.33**
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D120528-011 **Work Order #...:** MGW0R1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.52 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	84	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5RR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-220

Prep Date.....: 04/15/11
Analysis Date..: 04/15/11 **Prep Batch #...:** 1108220
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.0 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**5.6 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**2.6 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.1 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.40 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5RR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	90	(33 - 134)
4-Bromofluorobenzene	98	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5471AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-245

Prep Date.....: 04/14/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1108245
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**9.0 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**3.1 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.0 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5471AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG7DE1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-161
Prep Date.....: 04/18/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1109161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.33 J**	**5.0**	**ug/kg**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
1,2-Dichloroethane-d4	92	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	98	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG82W1AA **Matrix.....:** WASTE
MB Lot-Sample #: A1D200000-146

Prep Date.....: 04/19/11
Analysis Date..: 04/20/11 **Prep Batch #...:** 1110146
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	250	ug/kg	SW846 8260A
Chlorobenzene	ND	250	ug/kg	SW846 8260A
Dibromochloromethane	ND	250	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260A
Ethylbenzene	ND	250	ug/kg	SW846 8260A
2-Hexanone	ND	1000	ug/kg	SW846 8260A
Isopropylbenzene	ND	250	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260A
Styrene	ND	250	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260A
Tetrachloroethene	ND	250	ug/kg	SW846 8260A
Toluene	ND	250	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260A
Xylenes (total)	ND	250	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72	(30 - 122)
1,2-Dichloroethane-d4	110	(39 - 128)
Toluene-d8	76	(33 - 134)
4-Bromofluorobenzene	88	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHAQR1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D210000-130

Prep Date.....: 04/20/11
Analysis Date..: 04/20/11 **Prep Batch #...:** 1111130
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHAQR1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	88	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGXH71AA **Matrix.....:** WATER
MB Lot-Sample #: A1D130000-053
Prep Date.....: 04/13/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1103053
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	59	(28 - 110)
Terphenyl-d14	69	(37 - 119)
Phenol-d5	63	(10 - 110)
2-Fluorophenol	65	(10 - 110)
2,4,6-Tribromophenol	52	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4P61AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-334

Prep Date.....: 04/16/11
Analysis Date..: 04/28/11 **Prep Batch #...:** 1105334
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	48	(34 - 110)
Terphenyl-d14	71	(41 - 119)
Phenol-d5	46	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	31	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHGC11AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D250000-109
Prep Date.....: 04/21/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1115109
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	86	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG0171AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-048
Prep Date.....: 04/14/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1104048
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	47	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4QF1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D150000-335
Prep Date.....: 04/16/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1105335
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	500	ug/L	SW846 8015B
C10-C20	ND	500	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	49	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG02A1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D140000-051

Prep Date.....: 04/14/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1104051
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	58	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D120528 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D130000-024 **Prep Batch #...:** 1103024						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AD
		Dilution Factor: 1				
Barium	**0.091 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/13-04/15/11**	**MGXG21AF**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AE
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AG
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AH
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	04/13-04/15/11	MGXG21AJ
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/13-04/20/11	MGXG21AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D120528 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MGX1D1AA		MB Lot-Sample #:	A1D130000-178	
	ND	10.0	%	MCAWW 160.3 MOD	04/13-04/14/11	1103178
		Dilution Factor: 1				
Percent Solids		Work Order #: MG0FF1AA		MB Lot-Sample #:	A1D130000-316	
	ND	10.0	%	MCAWW 160.3 MOD	04/13-04/14/11	1103316
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	91	(16 - 156)	SW846 8260A
Benzene	**88**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	92	(61 - 121)	SW846 8260A
Bromodichloromethane	**106**	**(28 - 123)**	**SW846 8260A**
Bromoform	128 a	(10 - 117)	SW846 8260A
Bromomethane	50	(10 - 114)	SW846 8260A
2-Butanone	**96**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**98**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**109**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**97**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**115 a**	**(22 - 113)**	**SW846 8260A**
Chloroethane	103	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	104	(40 - 120)	SW846 8260A
Chloromethane	74	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**109**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**110**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	119	(48 - 151)	SW846 8260A
Methyl acetate	89	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**107**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	96	(41 - 133)	SW846 8260A
o-Xylene	**112**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**108**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**106**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	97	(25 - 140)	SW846 8260A
Acetonitrile	90	(15 - 179)	SW846 8260A
Acrolein	95	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	96	(49 - 126)	SW846 8260A
Bromobenzene	**107**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**100**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**107**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	59	(10 - 110)	SW846 8260A
sec-Butylbenzene	**105**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**107**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**109**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**93**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**109**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**104**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**102**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**106**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	103	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**98**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	112	(34 - 135)	SW846 8260A
Iodomethane	130	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**93**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**115**	**(56 - 136)**	**SW846 8260A**
Naphthalene	102	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**91**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**107**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**111**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	123	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**91**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**107**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**109**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**109**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	119	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**96**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**107**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**120**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**103**	**(66 - 119)**	**SW846 8260A**
n-Hexane	100	(51 - 144)	SW846 8260A
2-Hexanone	**102**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**107**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**83**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**106**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**112**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**112**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**93**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**107**	**(58 - 131)**	**SW846 8260A**
Toluene	**94**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	124	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**103**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**101**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**99**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	110	(17 - 145)	SW846 8260A
Vinyl chloride	**77**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**109**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	99	(39 - 128)
Toluene-d8	97	(33 - 134)
4-Bromofluorobenzene	104	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	88	(16 - 156)	SW846 8260A
Benzene	**86**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	92	(61 - 121)	SW846 8260A
Bromodichloromethane	**105**	**(28 - 123)**	**SW846 8260A**
Bromoform	125 a	(10 - 117)	SW846 8260A
Bromomethane	54	(10 - 114)	SW846 8260A
2-Butanone	**99**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**97**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**109**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**96**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**113**	**(22 - 113)**	**SW846 8260A**
Chloroethane	111	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	105	(40 - 120)	SW846 8260A
Chloromethane	80	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**113**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**107**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	117	(48 - 151)	SW846 8260A
Methyl acetate	89	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**106**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	97	(41 - 133)	SW846 8260A
o-Xylene	**114**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**109**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**105**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	99	(25 - 140)	SW846 8260A
Acetonitrile	88	(15 - 179)	SW846 8260A
Acrolein	100	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	97	(49 - 126)	SW846 8260A
Bromobenzene	**105**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**102**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**110**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	63	(10 - 110)	SW846 8260A
sec-Butylbenzene	**105**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**108**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**107**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**92**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**106**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**102**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**102**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**103**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	103	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**97**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	116	(34 - 135)	SW846 8260A
Iodomethane	134	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**95**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	94	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**115**	**(56 - 136)**	**SW846 8260A**
Naphthalene	104	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**89**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**108**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**111**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	120	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**92**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**111**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**109**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**108**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	117	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**96**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**106**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**121**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**103**	**(66 - 119)**	**SW846 8260A**
n-Hexane	106	(51 - 144)	SW846 8260A
2-Hexanone	**105**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**107**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**87**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**108**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**111**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**112**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**91**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**106**	**(58 - 131)**	**SW846 8260A**
Toluene	**94**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	124	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**102**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**101**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	106	(17 - 145)	SW846 8260A
Vinyl chloride	**81**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**111**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	95	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	76	(25 - 110)	SW846 8260A
Bromomethane	65	(10 - 114)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Chloroethane	140 a	(10 - 120)	SW846 8260A
Methylene chloride	**90**	**(27 - 172)**	**SW846 8260A**
Acetone	82	(16 - 156)	SW846 8260A
Carbon disulfide	**98**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**88**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**94**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	94	(61 - 121)	SW846 8260A
Chloroform	**95**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**96**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**93**	**(10 - 199)**	**SW846 8260A**
1,1,1-Trichloroethane	**93**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**97**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**103**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**102**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**109**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**94**	**(59 - 124)**	**SW846 8260A**
Dibromochloromethane	**109**	**(22 - 113)**	**SW846 8260A**
1,1,2-Trichloroethane	**110**	**(74 - 114)**	**SW846 8260A**
Benzene	**96**	**(70 - 117)**	**SW846 8260A**
trans-1,3-Dichloropropene	**124 a**	**(22 - 122)**	**SW846 8260A**
Bromoform	121 a	(10 - 117)	SW846 8260A
4-Methyl-2-pentanone	**104**	**(49 - 121)**	**SW846 8260A**
2-Hexanone	**101**	**(43 - 130)**	**SW846 8260A**
Tetrachloroethene	**97**	**(58 - 131)**	**SW846 8260A**
Toluene	**100**	**(66 - 123)**	**SW846 8260A**
Chlorobenzene	**99**	**(71 - 116)**	**SW846 8260A**
Ethylbenzene	**107**	**(66 - 119)**	**SW846 8260A**
Styrene	**115**	**(60 - 120)**	**SW846 8260A**
Xylenes (total)	**113**	**(68 - 119)**	**SW846 8260A**
cis-1,2-Dichloroethene	**96**	**(60 - 125)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
trans-1,2-Dichloroethene	**91**	**(58 - 121)**	**SW846 8260A**
n-Hexane	107	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**109**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	98	(40 - 120)	SW846 8260A
1,2-Dibromoethane	**111**	**(47 - 123)**	**SW846 8260A**
1,2-Dibromo-3-chloro-propane	**108**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	64	(10 - 110)	SW846 8260A
Isopropylbenzene	**106**	**(61 - 123)**	**SW846 8260A**
Trichlorofluoromethane	95	(17 - 145)	SW846 8260A
Trichlorotrifluoroethane	103	(48 - 151)	SW846 8260A
Methyl acetate	85	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**109**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	99	(41 - 133)	SW846 8260A
o-Xylene	**115**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**112**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**108**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	96	(25 - 140)	SW846 8260A
Acetonitrile	85	(15 - 179)	SW846 8260A
Acrolein	99	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	94	(49 - 126)	SW846 8260A
Bromobenzene	**107**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**95**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**118**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**109**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**104**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**112**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**112**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**104**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**110**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	94	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**99**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	105	(34 - 135)	SW846 8260A
Iodomethane	117	(49 - 134)	SW846 8260A
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**116**	**(56 - 136)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Naphthalene	105	(37 - 126)	SW846 8260A
n-Propylbenzene	**112**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**107**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	117	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**111**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**111**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**109**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	103	(48 - 151)	SW846 8260A
1,1,2,2-Tetrachloroethane	**111**	**(54 - 121)**	**SW846 8260A**
1,2,4-Trichloro-benzene	118	(41 - 135)	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
1,2-Dichloroethane-d4	88	(39 - 128)
Toluene-d8	98	(33 - 134)
4-Bromofluorobenzene	102	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG82W1AC **Matrix.....:** WASTE
LCS Lot-Sample#: A1D200000-146
Prep Date.....: 04/19/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1110146
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	54	(25 - 110)	SW846 8260A
Bromomethane	48	(10 - 114)	SW846 8260A
Vinyl chloride	**58**	**(33 - 110)**	**SW846 8260A**
Chloroethane	62	(10 - 120)	SW846 8260A
Methylene chloride	**106**	**(27 - 172)**	**SW846 8260A**
Acetone	116	(16 - 156)	SW846 8260A
Carbon disulfide	**46**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**65**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**82**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	76	(61 - 121)	SW846 8260A
Chloroform	**85**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**109**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**118**	**(10 - 199)**	**SW846 8260A**
Bromoform	39	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**60**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**43**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**64**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**94**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**65**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**77**	**(59 - 124)**	**SW846 8260A**
Benzene	**86**	**(70 - 117)**	**SW846 8260A**
Chlorobenzene	**90**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**55**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**78**	**(60 - 125)**	**SW846 8260A**
1,2-Dibromo-3-chloro-propane	**44**	**(10 - 129)**	**SW846 8260A**
trans-1,2-Dichloroethene	**73**	**(58 - 121)**	**SW846 8260A**
n-Hexane	92	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**78**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	69	(40 - 120)	SW846 8260A
Dichlorodifluoromethane	35	(10 - 110)	SW846 8260A
Trichlorofluoromethane	62	(17 - 145)	SW846 8260A
Trichlorotrifluoroethane	74	(48 - 151)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG82W1AC **Matrix.....:** WASTE
LCS Lot-Sample#: A1D200000-146

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Methyl acetate	115	(44 - 173)	SW846 8260A
Methylcyclohexane	64	(41 - 133)	SW846 8260A
1,2-Dichlorobenzene	**89**	**(68 - 118)**	**SW846 8260A**
o-Xylene	**83**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**85**	**(67 - 118)**	**SW846 8260A**
2-Chloroethyl vinyl ether	143 a	(25 - 140)	SW846 8260A
1,3-Dichlorobenzene	**86**	**(66 - 121)**	**SW846 8260A**
Acetonitrile	111	(15 - 179)	SW846 8260A
Acrolein	91	(18 - 171)	SW846 8260A
Acrylonitrile	98	(49 - 126)	SW846 8260A
1,4-Dichlorobenzene	**83**	**(65 - 119)**	**SW846 8260A**
Bromobenzene	**87**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**82**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**80**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**79**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**79**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**81**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**84**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**91**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**106**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	47	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**81**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	87	(34 - 135)	SW846 8260A
Iodomethane	81	(49 - 134)	SW846 8260A
Isopropyl ether	83	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**84**	**(56 - 136)**	**SW846 8260A**
Naphthalene	64	(37 - 126)	SW846 8260A
n-Propylbenzene	**80**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**58**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	75	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**101**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**86**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**81**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	74	(48 - 151)	SW846 8260A
trans-1,3-Dichloropropene	**69**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**83**	**(66 - 119)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG82W1AC **Matrix.....:** WASTE
LCS Lot-Sample#: A1D200000-146

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
2-Hexanone	**102**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**76**	**(61 - 123)**	**SW846 8260A**
4-Methyl-2-pentanone	**96**	**(49 - 121)**	**SW846 8260A**
Styrene	**78**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**90**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**87**	**(58 - 131)**	**SW846 8260A**
Toluene	**91**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	77	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**84**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	76	(30 - 122)
1,2-Dichloroethane-d4	111	(39 - 128)
Toluene-d8	76	(33 - 134)
4-Bromofluorobenzene	91	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	93	(43 - 136)	SW846 8260B
Benzene	**95**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	96	(82 - 114)	SW846 8260B
Bromodichloromethane	**98**	**(72 - 121)**	**SW846 8260B**
Bromoform	93	(40 - 131)	SW846 8260B
Bromomethane	77	(11 - 185)	SW846 8260B
2-Butanone	**100**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**102**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**105**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**90**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**94**	**(64 - 119)**	**SW846 8260B**
Chloroethane	90	(25 - 153)	SW846 8260B
Chloroform	**96**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	120	(74 - 151)	SW846 8260B
Methyl acetate	92	(58 - 131)	SW846 8260B
Chloromethane	79	(44 - 126)	SW846 8260B
Cyclohexane	110	(54 - 121)	SW846 8260B
Methylcyclohexane	115	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**93**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**94**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**88**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**96**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**89**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**94**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	97	(52 - 131)	SW846 8260B
Acetonitrile	102	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**87**	**(82 - 110)**	**SW846 8260B**
Acrolein	140	(51 - 170)	SW846 8260B
Vinyl acetate	121	(46 - 161)	SW846 8260B
Acrylonitrile	97	(66 - 132)	SW846 8260B
Bromobenzene	**91**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	71	(19 - 129)	SW846 8260B
Bromochloromethane	**95**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**97**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**98**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**97**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**96**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**92**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**91**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**97**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**100**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**93**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	96	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**101**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**94**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	85	(36 - 134)	SW846 8260B
Iodomethane	103	(72 - 141)	SW846 8260B
Isopropyl ether	96	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**98**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**101**	**(74 - 120)**	**SW846 8260B**
Naphthalene	84	(32 - 141)	SW846 8260B
n-Propylbenzene	**98**	**(74 - 121)**	**SW846 8260B**
1,1-Dichloroethene	**107**	**(78 - 131)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**92**	**(72 - 116)**	**SW846 8260B**
1,2,3-Trichlorobenzene	86	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**96**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**98**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**97**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**94**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**97**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**93**	**(83 - 112)**	**SW846 8260B**
n-Hexane	122	(66 - 137)	SW846 8260B
2-Hexanone	**99**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**95**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**93**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**100**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**97**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHAQR1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-130

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**92**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**93**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**95**	**(79 - 114)**	**SW846 8260B**
Toluene	**95**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	87	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**99**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**94**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**95**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	111	(49 - 157)	SW846 8260B
Vinyl chloride	**87**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**94**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGXH71AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D130000-053
Prep Date.....: 04/13/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1103053
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**83**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**82**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**86**	**(43 - 110)**	**SW846 8270C**
Anthracene	**87**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**85**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**94**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**73**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**87**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**88**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**87**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**83**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**73**	**(19 - 110)**	**SW846 8270C**
Chrysene	**87**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**88**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**63**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**93**	**(54 - 122)**	**SW846 8270C**
Phenol	**81**	**(14 - 112)**	**SW846 8270C**
Fluorene	**86**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**88**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**74**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	86	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**90**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**98**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**81**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**85**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**85**	**(52 - 114)**	**SW846 8270C**
Pyrene	**88**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**75**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**72**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**88**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	86	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGXH71AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D130000-053

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**92**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**86**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**81**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**79**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**88**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**83**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**88**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**62**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	53	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**95**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**83**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**85**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**87**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**86**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	51	(19 - 110)	SW846 8270C
3-Nitroaniline	**88**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	79	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**92**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	77	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**44 a**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**92**	**(53 - 126)**	**SW846 8270C**
Carbazole	**87**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**87**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**92**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**90**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**85**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**90**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**77**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**74**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGXH71AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D130000-053

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**85**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**80**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**85**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**94**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	25	(10 - 110)	SW846 8270C
Benzoic acid	61	(10 - 129)	SW846 8270C
Pyridine	63	(10 - 110)	SW846 8270C
Atrazine	103	(50 - 130)	SW846 8270C
Acetophenone	74	(50 - 130)	SW846 8270C
1,1'-Biphenyl	73	(50 - 130)	SW846 8270C
Caprolactam	82	(50 - 130)	SW846 8270C
Aniline	64	(10 - 130)	SW846 8270C
Benzyl alcohol	88	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**73**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	89	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	80	(10 - 130)	SW846 8270C
Benzaldehyde	75	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	79	(25 - 128)	SW846 8270C
1,4-Dioxane	54	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	69	(27 - 111)
2-Fluorobiphenyl	71	(28 - 110)
Terphenyl-d14	87	(37 - 119)
Phenol-d5	71	(10 - 110)
2-Fluorophenol	42	(10 - 110)
2,4,6-Tribromophenol	80	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**58**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**61**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**60**	**(47 - 110)**	**SW846 8270C**
Anthracene	**63**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**68**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**63**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**57**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**75**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**63**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**61**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**55**	**(38 - 122)**	**SW846 8270C**
Chrysene	**58**	**(56 - 111)**	**SW846 8270C**
1,4-Dichlorobenzene	**58**	**(38 - 110)**	**SW846 8270C**
Dibenz(a,h)anthracene	**63**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**36**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**65**	**(55 - 118)**	**SW846 8270C**
Fluorene	**61**	**(51 - 110)**	**SW846 8270C**
Phenol	**61**	**(39 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**64**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**60**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	59	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**64**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**68**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**59**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**48**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**61**	**(54 - 110)**	**SW846 8270C**
Pyrene	**61**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**59**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**59**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**59**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	60	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**62**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**61**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**68**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**59**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**65**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**66**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**61**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**41**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	31	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**65**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**59**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**60**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**63**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**57**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	39	(31 - 110)	SW846 8270C
3-Nitroaniline	**57**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	47	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**64**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	38	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**31 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**64**	**(57 - 121)**	**SW846 8270C**
Carbazole	**62**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**60**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**62**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**63**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**62**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**63**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**61**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**61**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**58**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**57**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**66**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	51	(10 - 110)	SW846 8270C
Benzoic acid	32	(10 - 124)	SW846 8270C
Pyridine	47	(22 - 110)	SW846 8270C
Atrazine	93	(50 - 130)	SW846 8270C
Acetophenone	66	(50 - 130)	SW846 8270C
1,1'-Biphenyl	64	(50 - 130)	SW846 8270C
Caprolactam	50	(50 - 130)	SW846 8270C
Aniline	36	(10 - 130)	SW846 8270C
Benzyl alcohol	55	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**62**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	60	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	64	(10 - 130)	SW846 8270C
Benzaldehyde	81	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	59	(36 - 116)	SW846 8270C
1,4-Dioxane	40	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	63	(24 - 112)
2-Fluorobiphenyl	63	(34 - 110)
Terphenyl-d14	76	(41 - 119)
Phenol-d5	68	(28 - 110)
2-Fluorophenol	72	(26 - 110)
2,4,6-Tribromophenol	65	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MHGC11AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D250000-109
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**111**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	107	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG0171AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-048
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**97**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG4QF1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D150000-335
Prep Date.....: 04/16/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105335
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**103**	**(41 - 149)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	60	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MG02A1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D140000-051
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**82**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**83**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	77	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D120528 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D130000-024 **Prep Batch #...:** 1103024					
Arsenic	87	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AL
Lead	96	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AM
Selenium	94	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AN
Barium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AP
Cadmium	94	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AQ
Chromium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AR
Silver	89	(80 - 120)	SW846 6010B Dilution Factor: 1	04/13-04/15/11	MGXG21AT
Mercury	98	(73 - 121)	SW846 7471A Dilution Factor: 1	04/13-04/20/11	MGXG21AK

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5521AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D180495-001 MG5521AF-MSD
Date Sampled...: 04/15/11 11:11 **Date Received..:** 04/16/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1110146
Dilution Factor: 9.17 **% Moisture.....:** 1.2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**80**	**(10 - 179)**			**SW846 8260A**
	80	**(10 - 179)**	**6.4**	**(0-30)**	**SW846 8260A**
Chloromethane	63	(16 - 115)			SW846 8260A
	62	(16 - 115)	7.6	(0-30)	SW846 8260A
Bromomethane	32	(10 - 151)			SW846 8260A
	39	(10 - 151)	13	(0-30)	SW846 8260A
Vinyl chloride	**76**	**(15 - 123)**			**SW846 8260A**
	73	**(15 - 123)**	**10**	**(0-30)**	**SW846 8260A**
Chloroethane	40	(10 - 168)			SW846 8260A
	39	(10 - 168)	8.6	(0-30)	SW846 8260A
Methylene chloride	**80**	**(10 - 148)**			**SW846 8260A**
	75	**(10 - 148)**	**9.8**	**(0-30)**	**SW846 8260A**
Acetone	69	(10 - 142)			SW846 8260A
	71	(10 - 142)	2.8	(0-30)	SW846 8260A
Carbon disulfide	**78**	**(10 - 155)**			**SW846 8260A**
	78	**(10 - 155)**	**5.6**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**85**	**(18 - 160)**			**SW846 8260A**
	87	**(18 - 160)**	**4.0**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	81	(29 - 139)			SW846 8260A
	85	(29 - 139)	1.7	(0-30)	SW846 8260A
Chloroform	**89**	**(51 - 120)**			**SW846 8260A**
	88	**(51 - 120)**	**8.2**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**89**	**(25 - 150)**			**SW846 8260A**
	89	**(25 - 150)**	**7.0**	**(0-30)**	**SW846 8260A**
Bromoform	86	(10 - 147)			SW846 8260A
	87	(10 - 147)	4.7	(0-30)	SW846 8260A
2-Butanone	**76**	**(10 - 172)**			**SW846 8260A**
	83	**(10 - 172)**	**2.7**	**(0-30)**	**SW846 8260A**
1,1,1-Trichloroethane	**83**	**(10 - 159)**			**SW846 8260A**
	83	**(10 - 159)**	**6.4**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**82**	**(12 - 135)**			**SW846 8260A**
	87	**(12 - 135)**	**0.52**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**90**	**(18 - 133)**			**SW846 8260A**
	85	**(18 - 133)**	**12**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**88**	**(58 - 118)**			**SW846 8260A**
	93	**(58 - 118)**	**0.67**	**(0-30)**	**SW846 8260A**
cis-1,3-Dichloropropene	**79**	**(19 - 121)**			**SW846 8260A**
	81	**(19 - 121)**	**4.0**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5521AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D180495-001 MG5521AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	**82**	**(10 - 193)**			**SW846 8260A**
	85	**(10 - 193)**	**1.8**	**(0-30)**	**SW846 8260A**
Benzene	**87**	**(10 - 199)**			**SW846 8260A**
	89	**(10 - 199)**	**3.7**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**89**	**(47 - 118)**			**SW846 8260A**
	93	**(47 - 118)**	**1.8**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**87**	**(10 - 128)**			**SW846 8260A**
	86	**(10 - 128)**	**8.4**	**(0-30)**	**SW846 8260A**
1,2-Dibromo-3-chloro- propane	**83**	**(10 - 137)**			**SW846 8260A**
	81	**(10 - 137)**	**8.7**	**(0-30)**	**SW846 8260A**
cis-1,2-Dichloroethene	**83**	**(34 - 137)**			**SW846 8260A**
	87	**(34 - 137)**	**1.5**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**80**	**(40 - 126)**			**SW846 8260A**
	84	**(40 - 126)**	**1.8**	**(0-30)**	**SW846 8260A**
n-Hexane	74	(18 - 148)			SW846 8260A
	75	(18 - 148)	5.3	(0-30)	SW846 8260A
Methyl tert-butyl ether	**90**	**(26 - 159)**			**SW846 8260A**
	90	**(26 - 159)**	**6.2**	**(0-30)**	**SW846 8260A**
Cyclohexane	70	(10 - 154)			SW846 8260A
	73	(10 - 154)	1.1	(0-30)	SW846 8260A
Dichlorodifluoromethane	48	(10 - 113)			SW846 8260A
	50	(10 - 113)	1.6	(0-30)	SW846 8260A
1,2-Dibromoethane	**93**	**(32 - 127)**			**SW846 8260A**
	92	**(32 - 127)**	**6.9**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	75	(10 - 157)			SW846 8260A
	81	(10 - 157)	1.9	(0-30)	SW846 8260A
Trichlorotrifluoroethane	95	(23 - 168)			SW846 8260A
	95	(23 - 168)	6.0	(0-30)	SW846 8260A
Methyl acetate	72	(10 - 175)			SW846 8260A
	76	(10 - 175)	0.18	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**96**	**(27 - 126)**			**SW846 8260A**
	97	**(27 - 126)**	**4.6**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	69	(11 - 156)			SW846 8260A
	75	(11 - 156)	2.5	(0-30)	SW846 8260A
o-Xylene	**88**	**(18 - 151)**			**SW846 8260A**
	88	**(18 - 151)**	**5.2**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**91**	**(14 - 151)**			**SW846 8260A**
	96	**(14 - 151)**	**1.3**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**90**	**(29 - 124)**			**SW846 8260A**
	89	**(29 - 124)**	**7.3**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5521AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D180495-001 MG5521AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Chloroethyl vinyl ether	81	(10 - 137)			SW846 8260A
	83	(10 - 137)	4.7	(0-30)	SW846 8260A
Acetonitrile	83	(10 - 173)			SW846 8260A
	88	(10 - 173)	0.80	(0-30)	SW846 8260A
Acrolein	79	(10 - 145)			SW846 8260A
	78	(10 - 145)	8.2	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**87**	**(30 - 123)**			**SW846 8260A**
	89	**(30 - 123)**	**3.8**	**(0-30)**	**SW846 8260A**
Acrylonitrile	76	(28 - 126)			SW846 8260A
	85	(28 - 126)	4.2	(0-30)	SW846 8260A
Cyclohexanone	89	(10 - 199)			SW846 8260A
	93	(10 - 199)	2.4	(0-30)	SW846 8260A
Bromobenzene	**95**	**(49 - 119)**			**SW846 8260A**
	94	**(49 - 119)**	**7.4**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**87**	**(42 - 123)**			**SW846 8260A**
	90	**(42 - 123)**	**3.6**	**(0-30)**	**SW846 8260A**
n-Butylbenzene	**76**	**(13 - 154)**			**SW846 8260A**
	77	**(13 - 154)**	**5.4**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**77**	**(41 - 133)**			**SW846 8260A**
	79	**(41 - 133)**	**3.9**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**71**	**(45 - 132)**			**SW846 8260A**
	74	**(45 - 132)**	**2.7**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**91**	**(51 - 118)**			**SW846 8260A**
	92	**(51 - 118)**	**5.2**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**90**	**(43 - 120)**			**SW846 8260A**
	96	**(43 - 120)**	**0.51**	**(0-30)**	**SW846 8260A**
Dibromomethane	**91**	**(45 - 121)**			**SW846 8260A**
	91	**(45 - 121)**	**6.2**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**97**	**(58 - 117)**			**SW846 8260A**
	96	**(58 - 117)**	**6.7**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	80	(26 - 127)			SW846 8260A
	80	(26 - 127)	5.9	(0-30)	SW846 8260A
1,1-Dichloropropene	**78**	**(42 - 126)**			**SW846 8260A**
	79	**(42 - 126)**	**4.7**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	92	(10 - 134)			SW846 8260A
	92	(10 - 134)	6.7	(0-30)	SW846 8260A
Iodomethane	80	(27 - 140)			SW846 8260A
	85	(27 - 140)	0.76	(0-30)	SW846 8260A
Isopropyl ether	77	(63 - 111)			SW846 8260A
	76	(63 - 111)	7.1	(0-30)	SW846 8260A
p-Isopropyltoluene	**77**	**(33 - 139)**			**SW846 8260A**
	83	**(33 - 139)**	**0.45**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5521AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D180495-001 MG5521AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Naphthalene	61	(10 - 199)			SW846 8260A
	58	(10 - 199)	9.8	(0-30)	SW846 8260A
n-Propylbenzene	**83**	**(41 - 135)**			**SW846 8260A**
	87	**(41 - 135)**	**1.8**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**95**	**(19 - 124)**			**SW846 8260A**
	95	**(19 - 124)**	**6.3**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	90	(10 - 123)			SW846 8260A
	88	(10 - 123)	8.3	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**93**	**(54 - 142)**			**SW846 8260A**
	95	**(54 - 142)**	**3.8**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**82**	**(10 - 199)**			**SW846 8260A**
	84	**(10 - 199)**	**4.1**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**80**	**(10 - 173)**			**SW846 8260A**
	82	**(10 - 173)**	**3.4**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	95	(23 - 168)			SW846 8260A
	95	(23 - 168)	6.0	(0-30)	SW846 8260A
trans-1,3-Dichloropropene	**92**	**(10 - 136)**			**SW846 8260A**
	93	**(10 - 136)**	**5.1**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**89**	**(27 - 143)**			**SW846 8260A**
	89	**(27 - 143)**	**6.2**	**(0-30)**	**SW846 8260A**
2-Hexanone	**86**	**(21 - 141)**			**SW846 8260A**
	87	**(21 - 141)**	**4.0**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**73**	**(39 - 126)**			**SW846 8260A**
	77	**(39 - 126)**	**0.29**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**89**	**(19 - 151)**			**SW846 8260A**
	89	**(19 - 151)**	**6.2**	**(0-30)**	**SW846 8260A**
Styrene	**80**	**(31 - 137)**			**SW846 8260A**
	84	**(31 - 137)**	**1.5**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**96**	**(16 - 158)**			**SW846 8260A**
	95	**(16 - 158)**	**7.2**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**91**	**(19 - 153)**			**SW846 8260A**
	85	**(19 - 153)**	**12**	**(0-30)**	**SW846 8260A**
Toluene	**90**	**(10 - 168)**			**SW846 8260A**
	88	**(10 - 168)**	**8.6**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	85	(10 - 136)			SW846 8260A
	76	(10 - 136)	17	(0-30)	SW846 8260A
1,1,2-Trichloroethane	**102**	**(34 - 152)**			**SW846 8260A**
	102	**(34 - 152)**	**6.6**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MG5521AE-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D180495-001 MG5521AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**90**	**(16 - 150)**			**SW846 8260A**
	93	**(16 - 150)**	**2.6**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
	72	(30 - 122)
1,2-Dichloroethane-d4	81	(39 - 128)
	71	(39 - 128)
Toluene-d8	89	(33 - 134)
	76	(33 - 134)
4-Bromofluorobenzene	86	(26 - 141)
	76	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD
Date Sampled...: 04/08/11 14:18 **Date Received..:** 04/09/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111130
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	86	(33 - 145)			SW846 8260B
	93	(33 - 145)	7.1	(0-30)	SW846 8260B
Benzene	**101**	**(72 - 121)**			**SW846 8260B**
	107	**(72 - 121)**	**5.9**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**101**	**(67 - 120)**			**SW846 8260B**
	107	**(67 - 120)**	**6.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	101	(75 - 119)			SW846 8260B
	107	(75 - 119)	5.8	(0-30)	SW846 8260B
Bromoform	93	(32 - 128)			SW846 8260B
	98	(32 - 128)	5.0	(0-30)	SW846 8260B
Bromomethane	82	(10 - 186)			SW846 8260B
	85	(10 - 186)	3.7	(0-30)	SW846 8260B
2-Butanone	**97**	**(54 - 129)**			**SW846 8260B**
	104	**(54 - 129)**	**7.0**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**109**	**(57 - 147)**			**SW846 8260B**
	114	**(57 - 147)**	**3.8**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**108**	**(59 - 129)**			**SW846 8260B**
	110	**(59 - 129)**	**2.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**93**	**(80 - 110)**			**SW846 8260B**
	98	**(80 - 110)**	**5.3**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**97**	**(56 - 118)**			**SW846 8260B**
	101	**(56 - 118)**	**4.8**	**(0-30)**	**SW846 8260B**
Chloroethane	96	(21 - 165)			SW846 8260B
	100	(21 - 165)	4.3	(0-30)	SW846 8260B
Chloroform	**100**	**(76 - 118)**			**SW846 8260B**
	107	**(76 - 118)**	**6.9**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	118	(70 - 152)			SW846 8260B
	120	(70 - 152)	1.8	(0-30)	SW846 8260B
Methyl acetate	90	(47 - 130)			SW846 8260B
	96	(47 - 130)	5.6	(0-30)	SW846 8260B
Chloromethane	77	(33 - 132)			SW846 8260B
	80	(33 - 132)	2.6	(0-30)	SW846 8260B
Cyclohexane	108	(49 - 123)			SW846 8260B
	111	(49 - 123)	2.7	(0-30)	SW846 8260B
Methylcyclohexane	108	(49 - 127)			SW846 8260B
	113	(49 - 127)	4.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**88**	**(32 - 139)**			**SW846 8260B**
	103	**(32 - 139)**	**15**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**97**	**(74 - 113)**			**SW846 8260B**
	103	**(74 - 113)**	**5.6**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**90**	**(75 - 111)**			**SW846 8260B**
	95	**(75 - 111)**	**5.6**	**(0-30)**	**SW846 8260B**
o-Xylene	**97**	**(76 - 116)**			**SW846 8260B**
	104	**(76 - 116)**	**6.7**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**88**	**(73 - 110)**			**SW846 8260B**
	95	**(73 - 110)**	**7.1**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**98**	**(75 - 117)**			**SW846 8260B**
	102	**(75 - 117)**	**4.1**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	97	(12 - 182)			SW846 8260B
	107	(12 - 182)	9.6	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**87**	**(75 - 110)**			**SW846 8260B**
	93	**(75 - 110)**	**6.1**	**(0-30)**	**SW846 8260B**
Acrolein	143	(47 - 168)			SW846 8260B
	159	(47 - 168)	10	(0-30)	SW846 8260B
Acrylonitrile	98	(62 - 133)			SW846 8260B
	106	(62 - 133)	7.6	(0-30)	SW846 8260B
Vinyl acetate	120	(43 - 157)			SW846 8260B
	136	(43 - 157)	12	(0-30)	SW846 8260B
Bromobenzene	**92**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**7.1**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	66	(17 - 128)			SW846 8260B
	67	(17 - 128)	2.0	(0-30)	SW846 8260B
Bromochloromethane	**99**	**(73 - 121)**			**SW846 8260B**
	105	**(73 - 121)**	**6.4**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**94**	**(56 - 127)**			**SW846 8260B**
	100	**(56 - 127)**	**5.8**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**97**	**(60 - 119)**			**SW846 8260B**
	102	**(60 - 119)**	**5.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**102**	**(79 - 116)**			**SW846 8260B**
	108	**(79 - 116)**	**6.1**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**98**	**(61 - 119)**			**SW846 8260B**
	117	**(61 - 119)**	**18**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**93**	**(69 - 117)**			**SW846 8260B**
	99	**(69 - 117)**	**6.7**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**92**	**(71 - 116)**			**SW846 8260B**
	95	**(71 - 116)**	**4.0**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**101**	**(68 - 129)**			**SW846 8260B**
	107	**(68 - 129)**	**5.7**	**(0-30)**	**SW846 8260B**
Dibromomethane	**105**	**(77 - 121)**			**SW846 8260B**
	112	**(77 - 121)**	**6.9**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**95**	**(74 - 118)**			**SW846 8260B**
	102	**(74 - 118)**	**7.3**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	98	(38 - 127)			SW846 8260B
	104	(38 - 127)	5.6	(0-30)	SW846 8260B
1,1-Dichloropropene	**106**	**(80 - 114)**			**SW846 8260B**
	110	**(80 - 114)**	**4.3**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**100**	**(70 - 120)**			**SW846 8260B**
	105	**(70 - 120)**	**4.9**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	80	(27 - 132)			SW846 8260B
	84	(27 - 132)	5.1	(0-30)	SW846 8260B
Iodomethane	108	(66 - 144)			SW846 8260B
	115	(66 - 144)	6.8	(0-30)	SW846 8260B
Isopropyl ether	99	(73 - 118)			SW846 8260B
	107	(73 - 118)	7.6	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**102**	**(80 - 119)**			**SW846 8260B**
	109	**(80 - 119)**	**6.7**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**99**	**(64 - 122)**			**SW846 8260B**
	105	**(64 - 122)**	**5.8**	**(0-30)**	**SW846 8260B**
Naphthalene	84	(15 - 158)			SW846 8260B
	94	(15 - 158)	10	(0-30)	SW846 8260B
n-Propylbenzene	**97**	**(64 - 124)**			**SW846 8260B**
	103	**(64 - 124)**	**6.8**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**95**	**(64 - 118)**			**SW846 8260B**
	100	**(64 - 118)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**110**	**(74 - 135)**			**SW846 8260B**
	114	**(74 - 135)**	**3.2**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	84	(45 - 129)			SW846 8260B
	91	(45 - 129)	7.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**93**	**(67 - 132)**			**SW846 8260B**
	101	**(67 - 132)**	**8.7**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**98**	**(67 - 124)**			**SW846 8260B**
	104	**(67 - 124)**	**6.3**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**102**	**(78 - 115)**			**SW846 8260B**
	109	**(78 - 115)**	**6.6**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**98**	**(63 - 121)**			**SW846 8260B**
	103	**(63 - 121)**	**5.1**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**92**	**(51 - 110)**			**SW846 8260B**
	100	**(51 - 110)**	**8.4**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**96**	**(46 - 116)**			**SW846 8260B**
	103	**(46 - 116)**	**7.7**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**97**	**(75 - 116)**			**SW846 8260B**
	102	**(75 - 116)**	**4.5**	**(0-30)**	**SW846 8260B**
n-Hexane	109	(54 - 138)			SW846 8260B
	115	(54 - 138)	5.4	(0-30)	SW846 8260B
2-Hexanone	**96**	**(47 - 139)**			**SW846 8260B**
	106	**(47 - 139)**	**9.9**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**97**	**(68 - 116)**			**SW846 8260B**
	102	**(68 - 116)**	**5.4**	**(0-30)**	**SW846 8260B**
Methylene chloride	**98**	**(63 - 128)**			**SW846 8260B**
	103	**(63 - 128)**	**4.4**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**99**	**(56 - 131)**			**SW846 8260B**
	109	**(56 - 131)**	**9.4**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**99**	**(46 - 144)**			**SW846 8260B**
	109	**(46 - 144)**	**10**	**(0-30)**	**SW846 8260B**
Styrene	**96**	**(71 - 117)**			**SW846 8260B**
	100	**(71 - 117)**	**3.5**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**94**	**(63 - 122)**			**SW846 8260B**
	102	**(63 - 122)**	**7.8**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**97**	**(70 - 117)**			**SW846 8260B**
	101	**(70 - 117)**	**3.3**	**(0-30)**	**SW846 8260B**
Toluene	**99**	**(78 - 114)**			**SW846 8260B**
	103	**(78 - 114)**	**4.4**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	86	(38 - 138)			SW846 8260B
	93	(38 - 138)	8.0	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**104**	**(68 - 121)**			**SW846 8260B**
	108	**(68 - 121)**	**4.5**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**98**	**(75 - 115)**			**SW846 8260B**
	104	**(75 - 115)**	**6.4**	**(0-30)**	**SW846 8260B**
Trichloroethene	**100**	**(66 - 120)**			**SW846 8260B**
	106	**(66 - 120)**	**5.8**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	108	(46 - 157)			SW846 8260B
	112	(46 - 157)	3.5	(0-30)	SW846 8260B
Vinyl chloride	**90**	**(49 - 130)**			**SW846 8260B**
	94	**(49 - 130)**	**4.4**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK91AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110474-007 MGVK91AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**98**	**(76 - 116)**			**SW846 8260B**
	103	**(76 - 116)**	**5.0**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(75 - 121)
	91	(75 - 121)
1,2-Dichloroethane-d4	91	(63 - 129)
	89	(63 - 129)
Toluene-d8	92	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	97	(66 - 117)
	100	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVFC1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CT-MSD
Date Sampled...: 04/08/11 11:00 **Date Received..:** 04/09/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1103053
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**60**	**(36 - 110)**			**SW846 8270C**
	54	**(36 - 110)**	**10**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**64**	**(25 - 110)**			**SW846 8270C**
	56	**(25 - 110)**	**14**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**62**	**(39 - 110)**			**SW846 8270C**
	55	**(39 - 110)**	**11**	**(0-30)**	**SW846 8270C**
Anthracene	**56**	**(46 - 110)**			**SW846 8270C**
	51	**(46 - 110)**	**8.8**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**45 a**	**(52 - 110)**			**SW846 8270C**
	43 a	**(52 - 110)**	**5.8**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**68**	**(46 - 119)**			**SW846 8270C**
	59	**(46 - 119)**	**13**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**31 a**	**(33 - 110)**			**SW846 8270C**
	33	**(33 - 110)**	**5.4**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**38**	**(33 - 114)**			**SW846 8270C**
	40	**(33 - 114)**	**5.2**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**33 a**	**(34 - 116)**			**SW846 8270C**
	35	**(34 - 116)**	**7.7**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**71**	**(25 - 119)**			**SW846 8270C**
	61	**(25 - 119)**	**16**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**38**	**(32 - 121)**			**SW846 8270C**
	39	**(32 - 121)**	**1.9**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**64**	**(17 - 110)**			**SW846 8270C**
	54	**(17 - 110)**	**17**	**(0-30)**	**SW846 8270C**
Chrysene	**45 a**	**(52 - 111)**			**SW846 8270C**
	43 a	**(52 - 111)**	**4.1**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**31 a**	**(35 - 118)**			**SW846 8270C**
	34 a	**(35 - 118)**	**8.4**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**60**	**(23 - 110)**			**SW846 8270C**
	53	**(23 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Fluoranthene	**61**	**(53 - 111)**			**SW846 8270C**
	56	**(53 - 111)**	**8.7**	**(0-30)**	**SW846 8270C**
Phenol	**67**	**(16 - 110)**			**SW846 8270C**
	58	**(16 - 110)**	**14**	**(0-30)**	**SW846 8270C**
Fluorene	**61**	**(43 - 110)**			**SW846 8270C**
	55	**(43 - 110)**	**12**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVFC1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CT-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**32 a**	**(36 - 116)**			**SW846 8270C**
	35 a	**(36 - 116)**	**8.4**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**68**	**(26 - 110)**			**SW846 8270C**
	57	**(26 - 110)**	**17**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	65	(10 - 130)			SW846 8270C
	58	(10 - 130)	12	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**65**	**(33 - 110)**			**SW846 8270C**
	58	**(33 - 110)**	**11**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**76**	**(35 - 110)**			**SW846 8270C**
	64	**(35 - 110)**	**16**	**(0-30)**	**SW846 8270C**
Naphthalene	**64**	**(32 - 110)**			**SW846 8270C**
	55	**(32 - 110)**	**14**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**61**	**(13 - 127)**			**SW846 8270C**
	51	**(13 - 127)**	**19**	**(0-30)**	**SW846 8270C**
Phenanthrene	**60**	**(47 - 110)**			**SW846 8270C**
	55	**(47 - 110)**	**9.3**	**(0-30)**	**SW846 8270C**
Pyrene	**57**	**(54 - 115)**			**SW846 8270C**
	52 a	**(54 - 115)**	**9.3**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**65**	**(35 - 110)**			**SW846 8270C**
	59	**(35 - 110)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**71**	**(27 - 110)**			**SW846 8270C**
	58	**(27 - 110)**	**19**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**70**	**(13 - 124)**			**SW846 8270C**
	60	**(13 - 124)**	**14**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**32 a**	**(40 - 140)**			**SW846 8270C**
	33 a	**(40 - 140)**	**3.5**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**62**	**(42 - 113)**			**SW846 8270C**
	59	**(42 - 113)**	**4.9**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**58**	**(51 - 121)**			**SW846 8270C**
	49 a	**(51 - 121)**	**16**	**(0-30)**	**SW846 8270C**
Carbazole	**60**	**(49 - 114)**			**SW846 8270C**
	55	**(49 - 114)**	**8.6**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVFC1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CT-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	51	(10 - 110)			SW846 8270C
	47	(10 - 110)	7.8	(0-30)	SW846 8270C
2-Chloronaphthalene	**62**	**(34 - 110)**			**SW846 8270C**
	54	**(34 - 110)**	**14**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**31 a**	**(43 - 113)**			**SW846 8270C**
	28 a	**(43 - 113)**	**8.8**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**62**	**(41 - 110)**			**SW846 8270C**
	55	**(41 - 110)**	**11**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**59**	**(50 - 117)**			**SW846 8270C**
	56	**(50 - 117)**	**6.5**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**66**	**(22 - 110)**			**SW846 8270C**
	56	**(22 - 110)**	**17**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**65**	**(19 - 110)**			**SW846 8270C**
	54	**(19 - 110)**	**18**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	21	(10 - 110)			SW846 8270C
	22	(10 - 110)	4.8	(0-30)	SW846 8270C
2,4-Dichlorophenol	**67**	**(30 - 110)**			**SW846 8270C**
	59	**(30 - 110)**	**14**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**64**	**(33 - 130)**			**SW846 8270C**
	57	**(33 - 130)**	**11**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**52**	**(11 - 110)**			**SW846 8270C**
	45	**(11 - 110)**	**13**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**64**	**(36 - 124)**			**SW846 8270C**
	57	**(36 - 124)**	**11**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	61	(25 - 110)			SW846 8270C
	56	(25 - 110)	8.1	(0-30)	SW846 8270C
2,4-Dinitrophenol	53	(11 - 119)			SW846 8270C
	48	(11 - 119)	10	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**68**	**(48 - 115)**			**SW846 8270C**
	60	**(48 - 115)**	**13**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**28 a**	**(36 - 124)**			**SW846 8270C**
	30 a	**(36 - 124)**	**7.8**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**56**	**(40 - 113)**			**SW846 8270C**
	53	**(40 - 113)**	**6.2**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**60**	**(14 - 110)**			**SW846 8270C**
	53	**(14 - 110)**	**13**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVFC1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CT-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	32	(10 - 110)			SW846 8270C
	27	(10 - 110)	16	(0-30)	SW846 8270C
Hexachloroethane	**65**	**(10 - 110)**			**SW846 8270C**
	56	**(10 - 110)**	**16**	**(0-30)**	**SW846 8270C**
Isophorone	**65**	**(34 - 125)**			**SW846 8270C**
	58	**(34 - 125)**	**12**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**67**	**(26 - 110)**			**SW846 8270C**
	57	**(26 - 110)**	**16**	**(0-30)**	**SW846 8270C**
4-Methylphenol	68	(25 - 110)			SW846 8270C
	58	(25 - 110)	16	(0-30)	SW846 8270C
2-Nitroaniline	**63**	**(31 - 129)**			**SW846 8270C**
	58	**(31 - 129)**	**9.2**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**57**	**(23 - 112)**			**SW846 8270C**
	54	**(23 - 112)**	**4.6**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**62**	**(26 - 115)**			**SW846 8270C**
	54	**(26 - 115)**	**14**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**63**	**(26 - 118)**			**SW846 8270C**
	56	**(26 - 118)**	**12**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**68**	**(30 - 110)**			**SW846 8270C**
	61	**(30 - 110)**	**12**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**49**	**(28 - 118)**			**SW846 8270C**
	48	**(28 - 118)**	**2.9**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**63**	**(36 - 110)**			**SW846 8270C**
	58	**(36 - 110)**	**9.7**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**63**	**(34 - 110)**			**SW846 8270C**
	57	**(34 - 110)**	**8.9**	**(0-30)**	**SW846 8270C**
Benzoic acid	68	(10 - 165)			SW846 8270C
	56	(10 - 165)	21	(0-30)	SW846 8270C
1,4-Dioxane	57	(10 - 110)			SW846 8270C
	55	(10 - 110)	4.5	(0-30)	SW846 8270C
Pyridine	2.2 a	(10 - 110)			SW846 8270C
	4.8 a,p	(10 - 110)	75	(0-30)	SW846 8270C
Atrazine	82	(50 - 130)			SW846 8270C
	77	(50 - 130)	6.3	(0-30)	SW846 8270C
Acetophenone	70	(50 - 130)			SW846 8270C
	59	(50 - 130)	17	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVFC1CR-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D110451-004 MGVFC1CT-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	62	(50 - 130)			SW846 8270C
	55	(50 - 130)	12	(0-30)	SW846 8270C
Caprolactam	58	(50 - 130)			SW846 8270C
	54	(50 - 130)	6.7	(0-30)	SW846 8270C
Aniline	19	(10 - 130)			SW846 8270C
	30 p	(10 - 130)	43	(0-30)	SW846 8270C
Benzyl alcohol	68	(10 - 130)			SW846 8270C
	58	(10 - 130)	17	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**68**	**(10 - 130)**			**SW846 8270C**
	59	**(10 - 130)**	**14**	**(0-30)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	62	(10 - 130)			SW846 8270C
	55	(10 - 130)	13	(0-30)	SW846 8270C
Benzaldehyde	83	(10 - 130)			SW846 8270C
	68	(10 - 130)	19	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(27 - 111)
	57	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
	55	(28 - 110)
Terphenyl-d14	49	(37 - 119)
	50	(37 - 119)
Phenol-d5	70	(10 - 110)
	60	(10 - 110)
2-Fluorophenol	71	(10 - 110)
	62	(10 - 110)
2,4,6-Tribromophenol	68	(22 - 120)
	61	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**48**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**5.8**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**50**	**(33 - 110)**			**SW846 8270C**
	44	**(33 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**49**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**3.0**	**(0-30)**	**SW846 8270C**
Anthracene	**53**	**(10 - 200)**			**SW846 8270C**
	52	**(10 - 200)**	**0.11**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**51**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**0.50**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**53**	**(42 - 118)**			**SW846 8270C**
	54	**(42 - 118)**	**2.1**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**45**	**(10 - 200)**			**SW846 8270C**
	47	**(10 - 200)**	**4.2**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**55**	**(10 - 200)**			**SW846 8270C**
	47	**(10 - 200)**	**16**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**50**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**2.5**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**49**	**(30 - 121)**			**SW846 8270C**
	43	**(30 - 121)**	**13**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**47**	**(10 - 200)**			**SW846 8270C**
	63	**(10 - 200)**	**29**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**48**	**(26 - 110)**			**SW846 8270C**
	47	**(26 - 110)**	**2.4**	**(0-30)**	**SW846 8270C**
Chrysene	**51**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**9.1**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**50**	**(10 - 200)**			**SW846 8270C**
	52	**(10 - 200)**	**2.9**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**45**	**(10 - 182)**			**SW846 8270C**
	40	**(10 - 182)**	**12**	**(0-30)**	**SW846 8270C**
Fluoranthene	**52**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**1.7**	**(0-30)**	**SW846 8270C**
Phenol	**50**	**(10 - 144)**			**SW846 8270C**
	51	**(10 - 144)**	**1.6**	**(0-30)**	**SW846 8270C**
Fluorene	**50**	**(10 - 187)**			**SW846 8270C**
	52	**(10 - 187)**	**3.7**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**50**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**1.3**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**50**	**(32 - 110)**			**SW846 8270C**
	54	**(32 - 110)**	**7.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	47	(10 - 130)			SW846 8270C
	49	(10 - 130)	5.2	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**55**	**(32 - 117)**			**SW846 8270C**
	55	**(32 - 117)**	**0.48**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**54**	**(10 - 200)**			**SW846 8270C**
	58	**(10 - 200)**	**7.7**	**(0-30)**	**SW846 8270C**
Naphthalene	**47**	**(10 - 200)**			**SW846 8270C**
	45	**(10 - 200)**	**3.2**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**51**	**(10 - 125)**			**SW846 8270C**
	59	**(10 - 125)**	**13**	**(0-30)**	**SW846 8270C**
Phenanthrene	**50**	**(10 - 200)**			**SW846 8270C**
	53	**(10 - 200)**	**6.7**	**(0-30)**	**SW846 8270C**
Pyrene	**50**	**(10 - 200)**			**SW846 8270C**
	57	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**49**	**(36 - 110)**			**SW846 8270C**
	44	**(36 - 110)**	**8.9**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**51**	**(32 - 118)**			**SW846 8270C**
	56	**(32 - 118)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**50**	**(25 - 124)**			**SW846 8270C**
	55	**(25 - 124)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**53**	**(10 - 200)**			**SW846 8270C**
	63	**(10 - 200)**	**17**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**52**	**(44 - 120)**			**SW846 8270C**
	51	**(44 - 120)**	**1.1**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**49**	**(43 - 138)**			**SW846 8270C**
	57	**(43 - 138)**	**14**	**(0-30)**	**SW846 8270C**
Carbazole	**50**	**(10 - 162)**			**SW846 8270C**
	52	**(10 - 162)**	**3.4**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	0.0 a	(11 - 110)			SW846 8270C
	10 a,p	(11 - 110)	200	(0-30)	SW846 8270C
2-Chloronaphthalene	**47**	**(40 - 110)**			**SW846 8270C**
	49	**(40 - 110)**	**3.9**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**26 a**	**(47 - 116)**			**SW846 8270C**
	52 p	**(47 - 116)**	**67**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**48**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**4.2**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**54**	**(31 - 145)**			**SW846 8270C**
	56	**(31 - 145)**	**5.2**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**50**	**(29 - 110)**			**SW846 8270C**
	48	**(29 - 110)**	**4.5**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**49**	**(29 - 110)**			**SW846 8270C**
	43	**(29 - 110)**	**12**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	4.1 a	(10 - 110)			SW846 8270C
	3.1 a	(10 - 110)	28	(0-30)	SW846 8270C
2,4-Dichlorophenol	**51**	**(33 - 110)**			**SW846 8270C**
	55	**(33 - 110)**	**7.8**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**53**	**(48 - 118)**			**SW846 8270C**
	55	**(48 - 118)**	**4.6**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**47**	**(19 - 114)**			**SW846 8270C**
	50	**(19 - 114)**	**6.7**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**53**	**(47 - 116)**			**SW846 8270C**
	53	**(47 - 116)**	**0.02**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	44	(10 - 110)			SW846 8270C
	38	(10 - 110)	15	(0-30)	SW846 8270C
2,4-Dinitrophenol	31	(10 - 110)			SW846 8270C
	24	(10 - 110)	26	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**54**	**(28 - 137)**			**SW846 8270C**
	54	**(28 - 137)**	**0.38**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**53**	**(10 - 182)**			**SW846 8270C**
	64	**(10 - 182)**	**19**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**51**	**(37 - 122)**			**SW846 8270C**
	49	**(37 - 122)**	**3.8**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**49**	**(30 - 110)**			**SW846 8270C**
	45	**(30 - 110)**	**7.6**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**49**	**(13 - 110)**			**SW846 8270C**
	43	**(13 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Isophorone	**47**	**(32 - 129)**			**SW846 8270C**
	43	**(32 - 129)**	**8.7**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**51**	**(19 - 124)**			**SW846 8270C**
	53	**(19 - 124)**	**5.2**	**(0-30)**	**SW846 8270C**
4-Methylphenol	50	(27 - 116)			SW846 8270C
	56	(27 - 116)	11	(0-30)	SW846 8270C
2-Nitroaniline	**50**	**(31 - 141)**			**SW846 8270C**
	45	**(31 - 141)**	**11**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**17 a**	**(24 - 110)**			**SW846 8270C**
	17 a	**(24 - 110)**	**1.6**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**26**	**(23 - 124)**			**SW846 8270C**
	29	**(23 - 124)**	**10**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**47**	**(33 - 111)**			**SW846 8270C**
	43	**(33 - 111)**	**7.5**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**48**	**(17 - 110)**			**SW846 8270C**
	49	**(17 - 110)**	**2.7**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**51**	**(10 - 169)**			**SW846 8270C**
	49	**(10 - 169)**	**4.1**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**57**	**(32 - 112)**			**SW846 8270C**
	54	**(32 - 112)**	**6.6**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**47**	**(22 - 110)**			**SW846 8270C**
	50	**(22 - 110)**	**5.8**	**(0-30)**	**SW846 8270C**
Benzoic acid	48	(10 - 200)			SW846 8270C
	51	(10 - 200)	6.7	(0-30)	SW846 8270C
1,4-Dioxane	31	(10 - 110)			SW846 8270C
	15 p	(10 - 110)	68	(0-30)	SW846 8270C
Pyridine	25	(10 - 110)			SW846 8270C
	21	(10 - 110)	15	(0-30)	SW846 8270C
Atrazine	75	(50 - 130)			SW846 8270C
	59	(50 - 130)	24	(0-30)	SW846 8270C
Acetophenone	53	(50 - 130)			SW846 8270C
	54	(50 - 130)	1.7	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	51	(50 - 130)			SW846 8270C
	54	(50 - 130)	5.5	(0-30)	SW846 8270C
Caprolactam	43 a	(50 - 130)			SW846 8270C
	58	(50 - 130)	29	(0-30)	SW846 8270C
Aniline	0.0 a	(10 - 130)			SW846 8270C
	0.0 a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzyl alcohol	43	(10 - 130)			SW846 8270C
	53	(10 - 130)	23	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**50**	**(10 - 130)**			**SW846 8270C**
	31 p	**(10 - 130)**	**48**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	49	(10 - 130)			SW846 8270C
	53	(10 - 130)	7.2	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	45	(10 - 130)			SW846 8270C
	43	(10 - 130)	5.2	(0-30)	SW846 8270C
Benzaldehyde	67	(10 - 130)			SW846 8270C
	76	(10 - 130)	13	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(24 - 112)
	42	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
	53	(34 - 110)
Terphenyl-d14	62	(41 - 119)
	68	(41 - 119)
Phenol-d5	56	(28 - 110)
	56	(28 - 110)
2-Fluorophenol	60	(26 - 110)
	55	(26 - 110)
2,4,6-Tribromophenol	53	(10 - 118)
	46	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGN5T1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D070534-001 MGN5T1C6-MSD
Date Sampled...: 04/06/11 09:55 **Date Received..:** 04/07/11
Prep Date.....: 04/13/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1103052
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trichloro-benzene	**58**	**(25 - 110)**			**SW846 8270C**
	58	**(25 - 110)**	**0.32**	**(0-30)**	**SW846 8270C**
Acenaphthene	**55**	**(36 - 110)**			**SW846 8270C**
	55	**(36 - 110)**	**0.16**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**61**	**(46 - 119)**			**SW846 8270C**
	61	**(46 - 119)**	**0.01**	**(0-30)**	**SW846 8270C**
Pyrene	**50 a**	**(54 - 115)**			**SW846 8270C**
	48 a	**(54 - 115)**	**5.1**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**63**	**(25 - 119)**			**SW846 8270C**
	63	**(25 - 119)**	**0.60**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**56**	**(17 - 110)**			**SW846 8270C**
	57	**(17 - 110)**	**0.92**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**69**	**(23 - 110)**			**SW846 8270C**
	65	**(23 - 110)**	**5.7**	**(0-30)**	**SW846 8270C**
Phenol	**59**	**(16 - 110)**			**SW846 8270C**
	58	**(16 - 110)**	**2.4**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**60**	**(26 - 110)**			**SW846 8270C**
	59	**(26 - 110)**	**0.21**	**(0-30)**	**SW846 8270C**
4-Chloro-3-methylphenol	**61**	**(33 - 110)**			**SW846 8270C**
	59	**(33 - 110)**	**2.9**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**59**	**(13 - 127)**			**SW846 8270C**
	58	**(13 - 127)**	**1.3**	**(0-30)**	**SW846 8270C**
Acenaphthylene	56	(39 - 110)			SW846 8270C
	56	(39 - 110)	0.01	(0-30)	SW846 8270C
Anthracene	52	(46 - 110)			SW846 8270C
	52	(46 - 110)	0.82	(0-30)	SW846 8270C
Benzo(a)anthracene	33 a	(52 - 110)			SW846 8270C
	29 a	(52 - 110)	13	(0-30)	SW846 8270C
Benzo(b)fluoranthene	25 a	(33 - 114)			SW846 8270C
	20 a	(33 - 114)	18	(0-30)	SW846 8270C
Benzo(k)fluoranthene	24 a	(32 - 121)			SW846 8270C
	17 a,p	(32 - 121)	35	(0-30)	SW846 8270C
Benzo(ghi)perylene	19 a	(34 - 116)			SW846 8270C
	13 a,p	(34 - 116)	42	(0-30)	SW846 8270C
Benzo(a)pyrene	19 a	(33 - 110)			SW846 8270C
	14 a	(33 - 110)	29	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGN5T1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D070534-001 MGN5T1C6-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
bis(2-Chloroethoxy) methane	60	(35 - 110)			SW846 8270C
	59	(35 - 110)	1.9	(0-30)	SW846 8270C
bis(2-Chloroethyl)-ether	58	(27 - 110)			SW846 8270C
	60	(27 - 110)	2.8	(0-30)	SW846 8270C
bis(2-Chloroisopropyl) ether	61	(13 - 124)			SW846 8270C
	61	(13 - 124)	0.29	(0-30)	SW846 8270C
bis(2-Ethylhexyl) phthalate	10 a	(40 - 140)			SW846 8270C
	3.0 a,p	(40 - 140)	48	(0-30)	SW846 8270C
4-Bromophenyl phenyl ether	55	(42 - 113)			SW846 8270C
	54	(42 - 113)	0.55	(0-30)	SW846 8270C
Butyl benzyl phthalate	28 a	(51 - 121)			SW846 8270C
	25 a	(51 - 121)	6.6	(0-30)	SW846 8270C
Carbazole	56	(49 - 114)			SW846 8270C
	56	(49 - 114)	0.73	(0-30)	SW846 8270C
4-Chloroaniline	42	(10 - 110)			SW846 8270C
	42	(10 - 110)	0.51	(0-30)	SW846 8270C
2-Chloronaphthalene	55	(34 - 110)			SW846 8270C
	55	(34 - 110)	0.03	(0-30)	SW846 8270C
4-Chlorophenyl phenyl ether	27 a	(43 - 113)			SW846 8270C
	27 a	(43 - 113)	0.03	(0-30)	SW846 8270C
Chrysene	33 a	(52 - 111)			SW846 8270C
	29 a	(52 - 111)	16	(0-30)	SW846 8270C
Dibenz(a,h)anthracene	17 a	(35 - 118)			SW846 8270C
	10 a,p	(35 - 118)	51	(0-30)	SW846 8270C
Dibenzofuran	56	(41 - 110)			SW846 8270C
	56	(41 - 110)	0.08	(0-30)	SW846 8270C
Di-n-butyl phthalate	50	(50 - 117)			SW846 8270C
	48 a	(50 - 117)	5.1	(0-30)	SW846 8270C
1,2-Dichlorobenzene	53	(22 - 110)			SW846 8270C
	53	(22 - 110)	0.62	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGN5T1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D070534-001 MGN5T1C6-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,3-Dichlorobenzene	55	(19 - 110)			SW846 8270C
	56	(19 - 110)	1.1	(0-30)	SW846 8270C
3,3'-Dichlorobenzidine	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dichlorophenol	62	(30 - 110)			SW846 8270C
	60	(30 - 110)	2.5	(0-30)	SW846 8270C
Diethyl phthalate	59	(33 - 130)			SW846 8270C
	58	(33 - 130)	1.5	(0-30)	SW846 8270C
2,4-Dimethylphenol	52	(11 - 110)			SW846 8270C
	49	(11 - 110)	5.8	(0-30)	SW846 8270C
Dimethyl phthalate	59	(36 - 124)			SW846 8270C
	58	(36 - 124)	2.6	(0-30)	SW846 8270C
4,6-Dinitro-2-methylphenol	61	(25 - 110)			SW846 8270C
	60	(25 - 110)	2.4	(0-30)	SW846 8270C
2,4-Dinitrophenol	56	(11 - 119)			SW846 8270C
	55	(11 - 119)	1.8	(0-30)	SW846 8270C
2,6-Dinitrotoluene	63	(48 - 115)			SW846 8270C
	62	(48 - 115)	2.7	(0-30)	SW846 8270C
Di-n-octyl phthalate	16 a	(36 - 124)			SW846 8270C
	9.3 a,p	(36 - 124)	50	(0-30)	SW846 8270C
Fluoranthene	53	(53 - 111)			SW846 8270C
	51 a	(53 - 111)	3.5	(0-30)	SW846 8270C
Fluorene	56	(43 - 110)			SW846 8270C
	55	(43 - 110)	1.0	(0-30)	SW846 8270C
Hexachlorobenzene	46	(40 - 113)			SW846 8270C
	45	(40 - 113)	3.1	(0-30)	SW846 8270C
Hexachlorobutadiene	52	(14 - 110)			SW846 8270C
	51	(14 - 110)	0.22	(0-30)	SW846 8270C
Hexachlorocyclopenta-diene	30	(10 - 110)			SW846 8270C
	31	(10 - 110)	4.4	(0-30)	SW846 8270C
Hexachloroethane	56	(10 - 110)			SW846 8270C
	56	(10 - 110)	0.86	(0-30)	SW846 8270C
Indeno(1,2,3-cd)pyrene	18 a	(36 - 116)			SW846 8270C
	11 a,p	(36 - 116)	45	(0-30)	SW846 8270C
Isophorone	60	(34 - 125)			SW846 8270C
	59	(34 - 125)	1.4	(0-30)	SW846 8270C
2-Methylnaphthalene	68	(35 - 110)			SW846 8270C
	66	(35 - 110)	2.7	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGN5T1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D070534-001 MGN5T1C6-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Methylphenol	58	(26 - 110)			SW846 8270C
	59	(26 - 110)	1.7	(0-30)	SW846 8270C
4-Methylphenol	61	(25 - 110)			SW846 8270C
	60	(25 - 110)	2.6	(0-30)	SW846 8270C
Naphthalene	53	(32 - 110)			SW846 8270C
	53	(32 - 110)	0.96	(0-30)	SW846 8270C
2-Nitroaniline	59	(31 - 129)			SW846 8270C
	59	(31 - 129)	0.09	(0-30)	SW846 8270C
3-Nitroaniline	45	(23 - 112)			SW846 8270C
	46	(23 - 112)	1.5	(0-30)	SW846 8270C
4-Nitroaniline	50	(26 - 115)			SW846 8270C
	48	(26 - 115)	3.6	(0-30)	SW846 8270C
Nitrobenzene	58	(26 - 118)			SW846 8270C
	59	(26 - 118)	0.29	(0-30)	SW846 8270C
2-Nitrophenol	63	(30 - 110)			SW846 8270C
	63	(30 - 110)	0.51	(0-30)	SW846 8270C
N-Nitrosodiphenylamine	56	(28 - 118)			SW846 8270C
	56	(28 - 118)	0.99	(0-30)	SW846 8270C
Phenanthrene	55	(47 - 110)			SW846 8270C
	55	(47 - 110)	1.6	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	58	(36 - 110)			SW846 8270C
	59	(36 - 110)	1.6	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	61	(34 - 110)			SW846 8270C
	60	(34 - 110)	2.4	(0-30)	SW846 8270C
Benzoic acid	49	(10 - 165)			SW846 8270C
	47	(10 - 165)	3.0	(0-30)	SW846 8270C
1,4-Dioxane	52	(10 - 110)			SW846 8270C
	53	(10 - 110)	0.97	(0-30)	SW846 8270C
Pyridine	4.7 a	(10 - 110)			SW846 8270C
	2.5 a,p	(10 - 110)	61	(0-30)	SW846 8270C
Atrazine	75	(50 - 130)			SW846 8270C
	71	(50 - 130)	5.3	(0-30)	SW846 8270C
Acetophenone	55	(50 - 130)			SW846 8270C
	56	(50 - 130)	0.08	(0-30)	SW846 8270C
1,1'-Biphenyl	57	(50 - 130)			SW846 8270C
	56	(50 - 130)	0.49	(0-30)	SW846 8270C
Caprolactam	64	(50 - 130)			SW846 8270C
	53	(50 - 130)	19	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGN5T1C5-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D070534-001 MGN5T1C6-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aniline	20	(10 - 130)			SW846 8270C
	16	(10 - 130)	25	(0-30)	SW846 8270C
Benzyl alcohol	59	(10 - 130)			SW846 8270C
	58	(10 - 130)	1.4	(0-30)	SW846 8270C
N-Nitrosodimethylamine	58	(10 - 130)			SW846 8270C
	59	(10 - 130)	0.91	(0-30)	SW846 8270C
1-Methylnaphthalene	59	(10 - 130)			SW846 8270C
	58	(10 - 130)	1.8	(0-30)	SW846 8270C
1,2-Dinitrobenzene	57	(10 - 130)			SW846 8270C
	57	(10 - 130)	0.08	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	60	(10 - 130)			SW846 8270C
	59	(10 - 130)	1.7	(0-30)	SW846 8270C
Benzaldehyde	70	(10 - 130)			SW846 8270C
	71	(10 - 130)	1.6	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(27 - 111)
	59	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
	56	(28 - 110)
Terphenyl-d14	34 *	(37 - 119)
	29 *	(37 - 119)
Phenol-d5	62	(10 - 110)
	60	(10 - 110)
2-Fluorophenol	63	(10 - 110)
	62	(10 - 110)
2,4,6-Tribromophenol	66	(22 - 120)
	64	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWX81CD-MS **Matrix.....:** SO
MS Lot-Sample #: A1D120528-001 MGWX81CE-MSD
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1115109
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**65**	**(10 - 142)**			**SW846 8015A MOD**
	65	**(10 - 142)**	**0.08**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	77	(10 - 150)
	77	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGWXN1AF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120525-001 MGWXN1AG-MSD
Date Sampled...: 04/11/11 11:30 **Date Received..:** 04/12/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104048
Dilution Factor: 5 **% Moisture.....:** 3.9

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**89 DIL**	**(70 - 130)**			**SW846 8015B**
	39 DIL,a	**(70 - 130)**	**32**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	41 DIL	(10 - 110)
	42 DIL	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D120528 **Work Order #...:** MGVK81AJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D110474-006 MGVK81AK-MSD
Date Sampled...: 04/08/11 14:52 **Date Received..:** 04/09/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1104051
Dilution Factor: 1 **% Moisture.....:** 13

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**82**	**(10 - 199)**			**SW846 8082**
	69	**(10 - 199)**	**16**	**(0-30)**	**SW846 8082**
Aroclor 1260	**81**	**(10 - 199)**			**SW846 8082**
	69	**(10 - 199)**	**16**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(10 - 196)
	63	(10 - 196)
Decachlorobiphenyl	86	(10 - 199)
	73	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D120528 **Matrix.....:** SO
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D120528-001 **Prep Batch #...:** 1103024							
Arsenic	77	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81AU
	77	(75 - 125)	0.12	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81AV
		Dilution Factor: 1					
Lead	86	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81AW
	88	(75 - 125)	2.0	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81AX
		Dilution Factor: 1					
Barium	84	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81A2
	91	(75 - 125)	5.4	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81A3
		Dilution Factor: 1					
Selenium	83	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81A0
	84	(75 - 125)	0.88	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81A1
		Dilution Factor: 1					
Cadmium	87	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81A4
	87	(75 - 125)	0.19	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81A5
		Dilution Factor: 1					
Chromium	92	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81A6
	94	(75 - 125)	1.6	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81A7
		Dilution Factor: 1					
Silver	81	(75 - 125)			SW846 6010B	04/13-04/15/11	MGWX81A8
	77	(75 - 125)	5.2	(0-20)	SW846 6010B	04/13-04/15/11	MGWX81A9
		Dilution Factor: 1					
Mercury	99	(11 - 192)			SW846 7471A	04/13-04/20/11	MGWX81AR
	100	(11 - 192)	0.50	(0-20)	SW846 7471A	04/13-04/20/11	MGWX81AT
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D120528 **Work Order #...:** MGV75-SMP **Matrix.....:** SOLID
MGV75-DUP
Date Sampled...: 04/11/11 13:50 **Date Received..:** 04/12/11
% Moisture.....: 9.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D120423-007		
	90.3	91.2	%	1.0	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103178

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D120528 **Work Order #...:** MGV77-SMP **Matrix.....:** SOLID
MGV77-DUP
Date Sampled...: 04/11/11 14:00 **Date Received..:** 04/12/11
% Moisture.....: 7.7

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D120423-009		
	92.3	94.2	%	2.0	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103178

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D120528 **Work Order #...:** MGFQ9-SMP **Matrix.....:** SOLID
MGFQ9-DUP
Date Sampled...: 03/31/11 08:15 **Date Received..:** 03/31/11
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1C310603-001		
	76.4	74.8	%	2.1	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103316

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D120528 **Work Order #...:** MGX3L-SMP **Matrix.....:** SOLID
MGX3L-DUP
Date Sampled...: 04/05/11 **Date Received..:** 04/13/11
% Moisture.....: 24

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D130481-003		
	76.4	77.3	%	1.2	(0-20)	MCAWW 160.3 MOD	04/13-04/14/11	1103316

Dilution Factor: 1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Guy Monfort	Site Contact: Vicky Farmer	Lab Contact: Denise Poli	COC No: 019592
Address: 250 W. Court St #200 W	Telephone: 513-564-8350	Telephone: 513-348-2080	Telephone:	1 of 2 COCs
City/State/Zip: Cincinnati, OH 45202	Email: guy.monfort@tetratech.com	Analysis Turnaround Time (as BOS days)	Analyses	For lab use only
Phone: 513-241-0149		TAT if different from below ____ ____		Walk-in client: ☐ Lab pickup: ☐ Lab shipping: ☐
Project Name: Mansfield Stamping Plant	Method of Shipment/Carrier: FedEx	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Job/SDG No.:
Project Number: 10351171404.002	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other: Ice	Filtered Sample (Y/N)	Composite (C/Grab)	VOCs	TPH GRO & DRO	PAH	Metals	PCBs	Sample Specific Notes / Special Instructions:
SB42-OLD-0710-0411	4/11/11	1520				X								X			X	X	X	X	X	
SB42-OLD-1720-0411		1533				X								X			X	X	X	X	X	
SB45-OLD-~~0925~~-0411		1029				X								X								
SB45-OLD-1012-0411		1046				X								X								
SB45-OLD-2730-0411		1107				X								X								
SB43-OLD-1725-0411		1205				X								X								
SB43-OLD-0925-0411		1148				X								X			X	X	X	X	X	
SB41-OLD-1215-0411		1416				X								X			X	X	X	X	X	
SB41-OLD-255-0411		1407				X								X			X	X	X	X	X	
GW43-OLD-0411		1350		Y						X			X				X	Y	X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT	4/12/11 1830			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
			[signature]	TAL	4/12/11 920

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact

Company Name: Tetra Tech	Client Project Manager:	Site Contact:	Lab Contact: Donese Dahl	COC No: 019593
Address:	Telephone:	Telephone:	Telephone:	2 of ____ COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below ____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab sampling ☐ Job/SDG No.:
Project Name: Mansfield Stamping Plant	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite = C / Grab = G	PAH	VOC	Sample Specific Notes / Special Instructions:
~~GW~~	~~4/11/11~~			X															
Temp Blank	4/11/11	1810		X						Y								Y	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company: TT	Date/Time: 4/11/11 1830	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 4/12/11 920

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** ATD120528
North Canton Facility

Client Tetra Tech Project Mansfield By: (Signature)
Cooler Received on 4-12-11 Opened on 4-12-11
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other
1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
If YES, Quantity Quantity Unsalvageable
Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt (BACK) °C See back of form for multiple coolers/temps ☒
METHOD: IR ☒ Other ☐
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒ SCSL
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☐ Were VOAs on the COC? Yes ☒ No ☐
Contacted PM DJP Date 4/12/11 by AM via Verbal ☒ Voice Mail ☐ Other ☐
Concerning #14

14. CHAIN OF CUSTODY

The following discrepancies occurred:
Sample ID GW13-GD-0411 Did not receive GRO Volume. Will not log for GRO per DJP.

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
L978	2.9	IR	Ice
A028	2.0	I	+

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 1035171404.002

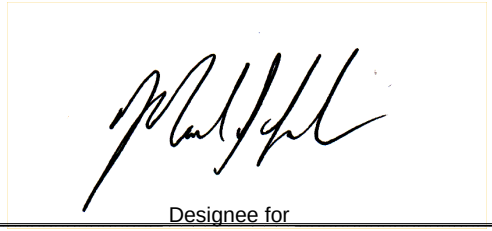
MANSFIELD STAMPING PLANT

Lot #: A1D130527

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Designee for
Denise Pohl
Project Manager
denise.pohl@testamericainc.com

Approved for release.
Mark J. Loeb
Project Manager II
5/5/2011 3:33 PM

May 5, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D130527

The following report contains the analytical results for seven solid samples, one water sample and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site, project number 1035171404.002. The samples were received April 13, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnapthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on May 03, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 4.2°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 1111235 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Batch 1108220 and 1109161had recoveries out high in the LCS. Since there were no target analytes detected in any of the associated samples, no corrective action was necessary.

Surrogate recoveries were outside criteria for sample(s) SB46-UST-1215-0411 due to demonstrated matrix effects.

Sample(s) SB31-UST-3032-0411, SB32-UST-1720-0411, SB46-UST-1215-0411 and SB47-OLD-1720-0411 were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

CASE NARRATIVE (continued)

GC/MS VOLATILES (cont)

An MS/MSD was analyzed in batches 1108220 and 1108245 but could not be reported because the associated sample was re-analyzed in a different batch.

An MS/MSD was analyzed in batch 1109161 but could not be reported because the associated sample had matrix interference and also an Ohio VAP sample.

GC/MS SEMIVOLATILES

The matrix spike/matrix spike duplicate(s) for batch(es) 1105233 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

No corrective action was taken for the 4-Chlorophenyl phenyl ether failure for the LCS associated with batches 1104058 and 1150233 due to questionable analyte concentration in calibration. If a hit for this analyte was detected, further corrective action would be required.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batches1104050 and 1104058.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The re-preparation and reanalysis also had surrogate recoveries outside criteria confirming probable matrix interference; therefore, the original data are contained in the report for sample(s) GW47-OLD-0411.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

CASE NARRATIVE (continued)

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D130527

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW47-OLD-0411 04/12/11 11:03 001				
Aroclor 1248	1.1	0.50	ug/L	SW846 8082
Gasoline Range Organics (C6-C12)	48 J	100	ug/L	SW846 8015A MOD
Acenaphthene	0.81	0.20	ug/L	SW846 8270C
Anthracene	1.1	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	1.6	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	1.2	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	1.7	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	0.77	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	0.74	0.20	ug/L	SW846 8270C
Chrysene	1.8	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	0.22	0.20	ug/L	SW846 8270C
Fluoranthene	6.1	0.20	ug/L	SW846 8270C
Fluorene	0.63	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	0.67	0.20	ug/L	SW846 8270C
Phenanthrene	5.6	0.20	ug/L	SW846 8270C
Pyrene	4.4	0.20	ug/L	SW846 8270C
Acetone	1.5 J,B	10	ug/L	SW846 8260B
Chloroethane	0.37 J	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	14	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.89 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	14	1.0	ug/L	SW846 8260B
SB31-UST-3032-0411 04/12/11 13:36 002				
C20-C34	19	19	mg/kg	SW846 8015B
Acetone	8.7 J,B	23	ug/kg	SW846 8260A
Methylene chloride	4.9 J,B	5.7	ug/kg	SW846 8260A
Percent Solids	87.1	10.0	%	MCAWW 160.3 MOD
SB31-UST-2730-0411 04/12/11 13:18 003				
C20-C34	22	18	mg/kg	SW846 8015B
C10-C20	10 J	18	mg/kg	SW846 8015B
Methylene chloride	5.5 B	5.5	ug/kg	SW846 8260A
Percent Solids	91.0	10.0	%	MCAWW 160.3 MOD
SB46-OLD-1215-0411 04/12/11 10:02 004				
C20-C34	120	19	mg/kg	SW846 8015B
C10-C20	90	19	mg/kg	SW846 8015B
Mercury	0.019 B	0.099	mg/kg	SW846 7471A
Arsenic	9.2	1.1	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D130527

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB46-OLD-1215-0411 04/12/11 10:02 004				
Lead	14.3	0.34	mg/kg	SW846 6010B
Selenium	0.81	0.56	mg/kg	SW846 6010B
Barium	30.0 J	22.4	mg/kg	SW846 6010B
Chromium	11.7 J	1.1	mg/kg	SW846 6010B
Benzo(ghi)perylene	23	7.5	ug/kg	SW846 8270C
Chrysene	14	7.5	ug/kg	SW846 8270C
1-Methylnaphthalene	8.8	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	8.7	7.5	ug/kg	SW846 8270C
Phenanthrene	17	7.5	ug/kg	SW846 8270C
Pyrene	18	7.5	ug/kg	SW846 8270C
Acetone	21 J,B	23	ug/kg	SW846 8260A
Carbon disulfide	1.3 J	5.6	ug/kg	SW846 8260A
Methylene chloride	6.6 B	5.6	ug/kg	SW846 8260A
Percent Solids	88.5	10.0	%	MCAWW 160.3 MOD
SB32-UST-1720-0411 04/12/11 11:33 005				
C20-C34	70	19	mg/kg	SW846 8015B
C10-C20	45	19	mg/kg	SW846 8015B
Acetone	20 J,B	23	ug/kg	SW846 8260A
Benzene	0.57 J	5.7	ug/kg	SW846 8260A
Carbon disulfide	1.7 J	5.7	ug/kg	SW846 8260A
Methylene chloride	7.5 B	5.7	ug/kg	SW846 8260A
Percent Solids	87.3	10.0	%	MCAWW 160.3 MOD
SB47-OLD-1720-0411 04/12/11 09:01 006				
C20-C34	94	19	mg/kg	SW846 8015B
C10-C20	70	19	mg/kg	SW846 8015B
Arsenic	17.5	1.0	mg/kg	SW846 6010B
Lead	22.1	0.31	mg/kg	SW846 6010B
Barium	72.8 J	20.8	mg/kg	SW846 6010B
Chromium	8.4 J	1.0	mg/kg	SW846 6010B
1-Methylnaphthalene	9.8	7.6	ug/kg	SW846 8270C
2-Methylnaphthalene	13	7.6	ug/kg	SW846 8270C
Acetone	12 J,B	23	ug/kg	SW846 8260A
Methylene chloride	4.7 J,B	5.7	ug/kg	SW846 8260A
Toluene	12 J	280	ug/kg	SW846 8260A
Percent Solids	87.7	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D130527

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SBDUP412 04/12/11 007				
C20-C34	51	19	mg/kg	SW846 8015B
C10-C20	33	19	mg/kg	SW846 8015B
Arsenic	13.5	1.1	mg/kg	SW846 6010B
Lead	10.9	0.33	mg/kg	SW846 6010B
Barium	38.5 J	21.9	mg/kg	SW846 6010B
Chromium	9.8 J	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	24	7.5	ug/kg	SW846 8270C
2-Methylnaphthalene	36	7.5	ug/kg	SW846 8270C
Phenanthrene	17	7.5	ug/kg	SW846 8270C
Pyrene	8.8	7.5	ug/kg	SW846 8270C
Percent Solids	88.5	10.0	%	MCAWW 160.3 MOD
SB61-CSA-2225-0411 04/12/11 14:41 008				
C20-C34	44	19	mg/kg	SW846 8015B
C10-C20	28	19	mg/kg	SW846 8015B
Arsenic	11.9	0.90	mg/kg	SW846 6010B
Lead	12.8	0.27	mg/kg	SW846 6010B
Barium	39.4 J	18.1	mg/kg	SW846 6010B
Cadmium	0.35 B	0.45	mg/kg	SW846 6010B
Chromium	8.7 J	0.90	mg/kg	SW846 6010B
1-Methylnaphthalene	11	7.5	ug/kg	SW846 8270C
Phenanthrene	11	7.5	ug/kg	SW846 8270C
Percent Solids	88.6	10.0	%	MCAWW 160.3 MOD
TRIP BLANK 04/12/11 009				
Acetone	12 B	10	ug/L	SW846 8260B
Chloroform	0.21 J	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.28 J	1.0	ug/L	SW846 8260B
Methylene chloride	8.3	1.0	ug/L	SW846 8260B
Toluene	0.61 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D130527

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D130527

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MG0C6	001	GW47-OLD-0411	04/12/11	11:03
MG0DA	002	SB31-UST-3032-0411	04/12/11	13:36
MG0DD	003	SB31-UST-2730-0411	04/12/11	13:18
MG0DH	004	SB46-OLD-1215-0411	04/12/11	10:02
MG0DL	005	SB32-UST-1720-0411	04/12/11	11:33
MG0DN	006	SB47-OLD-1720-0411	04/12/11	09:01
MG0DQ	007	SBDUP412	04/12/11	
MG0DX	008	SB61-CSA-2225-0411	04/12/11	14:41
MG0D1	009	TRIP BLANK	04/12/11	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: GW47-OLD-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-001 **Work Order #...:** MG0C61AD **Matrix.....:** WG
Date Sampled...: 04/12/11 11:03 **Date Received..:** 04/13/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111268
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**1.5 J,B**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	**0.37 J**	**2.0**	**ug/L**	**0.29**
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	**14**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	**0.89 J**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: GW47-OLD-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-001 **Work Order #...:** MG0C61AD **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	**14**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(75 - 121)
1,2-Dichloroethane-d4	87	(63 - 129)
Toluene-d8	91	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: GW47-OLD-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D130527-001 **Work Order #...:** MG0C61AE **Matrix.....:** WG
Date Sampled...: 04/12/11 11:03 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1104058
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**0.81**	**0.20**	**ug/L**	**0.10**
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	**1.1**	**0.20**	**ug/L**	**0.10**
Benzo(a)anthracene	**1.6**	**0.20**	**ug/L**	**0.10**
Benzo(a)pyrene	**1.2**	**0.20**	**ug/L**	**0.10**
Benzo(b)fluoranthene	**1.7**	**0.20**	**ug/L**	**0.10**
Benzo(ghi)perylene	**0.77**	**0.20**	**ug/L**	**0.10**
Benzo(k)fluoranthene	**0.74**	**0.20**	**ug/L**	**0.10**
Chrysene	**1.8**	**0.20**	**ug/L**	**0.10**
Dibenz(a,h)anthracene	**0.22**	**0.20**	**ug/L**	**0.10**
Fluoranthene	**6.1**	**0.20**	**ug/L**	**0.10**
Fluorene	**0.63**	**0.20**	**ug/L**	**0.10**
Indeno(1,2,3-cd)pyrene	**0.67**	**0.20**	**ug/L**	**0.10**
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	**5.6**	**0.20**	**ug/L**	**0.10**
Pyrene	**4.4**	**0.20**	**ug/L**	**0.10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	53	(27 - 111)
2-Fluorobiphenyl	50	(28 - 110)
Terphenyl-d14	13 *	(37 - 119)
Phenol-d5	55	(10 - 110)
2-Fluorophenol	55	(10 - 110)
2,4,6-Tribromophenol	62	(22 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Ohio Environmental Protection Agency

Client Sample ID: GW47-OLD-0411

GC Volatiles

Lot-Sample #...: A1D130527-001 **Work Order #...:** MG0C61AA **Matrix.....:** WG
Date Sampled...: 04/12/11 11:03 **Date Received..:** 04/13/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1117139
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**48 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	89	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: GW47-OLD-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-001 **Work Order #...:** MG0C61AC **Matrix.....:** WG
Date Sampled...: 04/12/11 11:03 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1104050
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	**1.1**	**0.50**	**ug/L**	**0.10**
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	29	(27 - 130)
Decachlorobiphenyl	41	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-3032-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-002 **Work Order #...:** MG0DA1AD **Matrix.....:** SO
Date Sampled...: 04/12/11 13:36 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**8.7 J,B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.38
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.7	ug/kg	0.51
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.38
Dibromochloromethane	ND	5.7	ug/kg	0.63
Chloroethane	ND	11	ug/kg	0.99
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.60
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.62
Ethylbenzene	ND	5.7	ug/kg	0.30
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**4.9 J,B**	**5.7**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
Tetrachloroethene	ND	5.7	ug/kg	0.60
Toluene	ND	5.7	ug/kg	0.31
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.45
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39

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Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-3032-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-002 **Work Order #...:** MG0DA1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.7	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(30 - 122)
1,2-Dichloroethane-d4	108	(39 - 128)
Toluene-d8	105	(33 - 134)
4-Bromofluorobenzene	134	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-3032-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-002 **Work Order #...:** MG0DA2AD **Matrix.....:** SO
Date Sampled...: 04/12/11 13:36 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	57	ug/kg	7.5
1,2-Dichlorobenzene	ND	29	ug/kg	2.1
1,3-Dichlorobenzene	ND	29	ug/kg	2.0
1,4-Dichlorobenzene	ND	29	ug/kg	3.8
1,1,2,2-Tetrachloroethane	ND	29	ug/kg	2.0
1,2,4-Trichloro-benzene	ND	29	ug/kg	1.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	93	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-3032-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-002 **Work Order #...:** MG0DA1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 13:36 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**19**	**19**	**mg/kg**	**11**
C10-C20	ND	19	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-3032-0411

General Chemistry

Lot-Sample #...: A1D130527-002 **Work Order #...:** MG0DA **Matrix.....:** SO
Date Sampled...: 04/12/11 13:36 **Date Received..:** 04/13/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-003 **Work Order #...:** MG0DD1AD **Matrix.....:** SO
Date Sampled...: 04/12/11 13:18 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 9.0 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	22	ug/kg	6.9
Benzene	ND	5.5	ug/kg	0.25
Bromodichloromethane	ND	5.5	ug/kg	0.31
Bromoform	ND	5.5	ug/kg	0.36
Bromomethane	ND	11	ug/kg	0.59
2-Butanone	ND	22	ug/kg	1.5
Carbon disulfide	ND	5.5	ug/kg	0.48
Carbon tetrachloride	ND	5.5	ug/kg	0.41
Chlorobenzene	ND	5.5	ug/kg	0.36
Dibromochloromethane	ND	5.5	ug/kg	0.60
Chloroethane	ND	11	ug/kg	0.95
Chloroform	ND	5.5	ug/kg	0.32
Chloromethane	ND	11	ug/kg	0.45
1,2-Dibromo-3-chloro-propane	ND	11	ug/kg	1.4
1,2-Dibromoethane	ND	5.5	ug/kg	0.55
1,2-Dichlorobenzene	ND	5.5	ug/kg	0.40
1,3-Dichlorobenzene	ND	5.5	ug/kg	0.38
1,4-Dichlorobenzene	ND	5.5	ug/kg	0.73
Dichlorodifluoromethane	ND	11	ug/kg	0.55
1,1-Dichloroethane	ND	5.5	ug/kg	0.40
1,2-Dichloroethane	ND	5.5	ug/kg	0.37
cis-1,2-Dichloroethene	ND	2.7	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.7	ug/kg	0.45
1,1-Dichloroethene	ND	5.5	ug/kg	0.57
1,2-Dichloropropane	ND	5.5	ug/kg	0.76
cis-1,3-Dichloropropene	ND	5.5	ug/kg	0.37
trans-1,3-Dichloropropene	ND	5.5	ug/kg	0.59
Ethylbenzene	ND	5.5	ug/kg	0.29
n-Hexane	ND	5.5	ug/kg	1.3
2-Hexanone	ND	22	ug/kg	0.69
Isopropylbenzene	ND	5.5	ug/kg	0.18
Methylene chloride	**5.5 B**	**5.5**	**ug/kg**	**0.74**
4-Methyl-2-pentanone	ND	22	ug/kg	0.59
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.47
Styrene	ND	5.5	ug/kg	0.16
1,1,2,2-Tetrachloroethane	ND	5.5	ug/kg	0.37

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-003 **Work Order #...:** MG0DD1AD **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	5.5	ug/kg	0.57
Toluene	ND	5.5	ug/kg	0.30
1,2,4-Trichloro-benzene	ND	5.5	ug/kg	0.30
1,1,1-Trichloroethane	ND	5.5	ug/kg	0.62
1,1,2-Trichloroethane	ND	5.5	ug/kg	0.43
Trichloroethene	ND	5.5	ug/kg	0.46
Trichlorofluoromethane	ND	11	ug/kg	0.37
Vinyl chloride	ND	2.2	ug/kg	0.43
Xylenes (total)	ND	5.5	ug/kg	0.74

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	93	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-2730-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-003 **Work Order #...:** MG0DD1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 13:18 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 9.0 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**22**	**18**	**mg/kg**	**10**
C10-C20	**10 J**	**18**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB31-UST-2730-0411

General Chemistry

Lot-Sample #...: A1D130527-003 **Work Order #...:** MG0DD **Matrix.....:** SO
Date Sampled...: 04/12/11 13:18 **Date Received..:** 04/13/11
% Moisture.....: 9.0

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**91.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH1AE **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**21 J,B**	**23**	**ug/kg**	**7.1**
Benzene	ND	5.6	ug/kg	0.26
Bromodichloromethane	ND	5.6	ug/kg	0.32
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**1.3 J**	**5.6**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.6	ug/kg	0.42
Chloroethane	ND	11	ug/kg	0.97
Chloroform	ND	5.6	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.46
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.41
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.59
1,2-Dichloropropane	ND	5.6	ug/kg	0.78
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
n-Hexane	ND	5.6	ug/kg	1.4
Methylene chloride	**6.6 B**	**5.6**	**ug/kg**	**0.76**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.63
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.3	ug/kg	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	114	(30 - 122)
1,2-Dichloroethane-d4	117	(39 - 128)
Toluene-d8	122	(33 - 134)
4-Bromofluorobenzene	142 *	(26 - 141)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH2AE **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109161
Dilution Factor: 10
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	56	ug/kg	3.7
Chlorobenzene	ND	56	ug/kg	3.7
Dibromochloromethane	ND	56	ug/kg	6.2
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	15
1,2-Dibromoethane	ND	56	ug/kg	5.6
1,2-Dichlorobenzene	ND	56	ug/kg	4.1
1,3-Dichlorobenzene	ND	56	ug/kg	4.0
1,4-Dichlorobenzene	ND	56	ug/kg	7.5
trans-1,3-Dichloropropene	ND	56	ug/kg	6.1
Ethylbenzene	ND	56	ug/kg	2.9
2-Hexanone	ND	230	ug/kg	7.1
Isopropylbenzene	ND	56	ug/kg	1.8
4-Methyl-2-pentanone	ND	230	ug/kg	6.1
Styrene	ND	56	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	56	ug/kg	3.8
Tetrachloroethene	ND	56	ug/kg	5.9
Toluene	ND	56	ug/kg	3.1
1,2,4-Trichloro-benzene	ND	56	ug/kg	3.1
1,1,2-Trichloroethane	ND	56	ug/kg	4.4
Xylenes (total)	ND	56	ug/kg	7.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	98	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	111	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH1AQ **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/25/11
Prep Batch #...: 1105233
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	**23**	**7.5**	**ug/kg**	**3.7**
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	**14**	**7.5**	**ug/kg**	**1.2**
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**8.8**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**8.7**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**17**	**7.5**	**ug/kg**	**3.7**
Pyrene	**18**	**7.5**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(24 - 112)
2-Fluorobiphenyl	54	(34 - 110)
Terphenyl-d14	84	(41 - 119)
Phenol-d5	60	(28 - 110)
2-Fluorophenol	60	(26 - 110)
2,4,6-Tribromophenol	54	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC Volatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	52	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH1AC **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**120**	**19**	**mg/kg**	**10**
C10-C20	**90**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	41	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH1AP **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	65	(10 - 196)
Decachlorobiphenyl	62	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

TOTAL Metals

Lot-Sample #...: A1D130527-004 **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1104032						
Arsenic	**9.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DH1AG**
		Dilution Factor: 0.99		MDL.....: 0.34		
Lead	**14.3**	**0.34**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DH1AH**
		Dilution Factor: 0.99		MDL.....: 0.21		
Barium	**30.0 J**	**22.4**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DH1AK**
		Dilution Factor: 0.99		MDL.....: 0.079		
Selenium	**0.81**	**0.56**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DH1AJ**
		Dilution Factor: 0.99		MDL.....: 0.50		
Cadmium	ND	0.56	mg/kg	SW846 6010B	04/14-04/15/11	MG0DH1AL
		Dilution Factor: 0.99		MDL.....: 0.040		
Chromium	**11.7 J**	**1.1**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DH1AM**
		Dilution Factor: 0.99		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/14-04/15/11	MG0DH1AN
		Dilution Factor: 0.99		MDL.....: 0.11		
Mercury	**0.019 B**	**0.099**	**mg/kg**	**SW846 7471A**	**04/14-04/20/11**	**MG0DH1AF**
		Dilution Factor: 0.88		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB46-OLD-1215-0411

General Chemistry

Lot-Sample #...: A1D130527-004 **Work Order #...:** MG0DH **Matrix.....:** SO
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB32-UST-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-005 **Work Order #...:** MG0DL1AD **Matrix.....:** SO
Date Sampled...: 04/12/11 11:33 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**20 J,B**	**23**	**ug/kg**	**7.2**
Benzene	**0.57 J**	**5.7**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**1.7 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chloroethane	ND	11	ug/kg	0.99
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.60
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
n-Hexane	ND	5.7	ug/kg	1.4
Methylene chloride	**7.5 B**	**5.7**	**ug/kg**	**0.77**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39
Vinyl chloride	ND	2.3	ug/kg	0.45

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(30 - 122)
1,2-Dichloroethane-d4	112	(39 - 128)
Toluene-d8	113	(33 - 134)
4-Bromofluorobenzene	135	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB32-UST-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-005 **Work Order #...:** MG0DL2AD **Matrix.....:** SO
Date Sampled...: 04/12/11 11:33 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/16/11
Prep Batch #...: 1108220
Dilution Factor: 5
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	29	ug/kg	1.9
Chlorobenzene	ND	29	ug/kg	1.9
Dibromochloromethane	ND	29	ug/kg	3.2
1,2-Dibromo-3-chloro-propane	ND	57	ug/kg	7.4
1,2-Dibromoethane	ND	29	ug/kg	2.9
1,2-Dichlorobenzene	ND	29	ug/kg	2.1
1,3-Dichlorobenzene	ND	29	ug/kg	2.0
1,4-Dichlorobenzene	ND	29	ug/kg	3.8
trans-1,3-Dichloropropene	ND	29	ug/kg	3.1
Ethylbenzene	ND	29	ug/kg	1.5
2-Hexanone	ND	110	ug/kg	3.6
Isopropylbenzene	ND	29	ug/kg	0.92
4-Methyl-2-pentanone	ND	110	ug/kg	3.1
Styrene	ND	29	ug/kg	0.86
1,1,2,2-Tetrachloroethane	ND	29	ug/kg	1.9
Tetrachloroethene	ND	29	ug/kg	3.0
Toluene	ND	29	ug/kg	1.5
1,2,4-Trichloro-benzene	ND	29	ug/kg	1.5
1,1,2-Trichloroethane	ND	29	ug/kg	2.2
Xylenes (total)	ND	29	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	103	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB32-UST-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-005 **Work Order #...:** MG0DL1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 11:33 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**70**	**19**	**mg/kg**	**11**
C10-C20	**45**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB32-UST-1720-0411

General Chemistry

Lot-Sample #...: A1D130527-005 **Work Order #...:** MG0DL **Matrix.....:** SO
Date Sampled...: 04/12/11 11:33 **Date Received..:** 04/13/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN1AE **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**12 J,B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromomethane	ND	11	ug/kg	0.62
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	ND	5.7	ug/kg	0.50
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chloroethane	ND	11	ug/kg	0.98
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.59
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
n-Hexane	ND	5.7	ug/kg	1.4
Methylene chloride	**4.7 J,B**	**5.7**	**ug/kg**	**0.76**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39
Vinyl chloride	ND	11	ug/kg	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(30 - 122)
1,2-Dichloroethane-d4	120	(39 - 128)
Toluene-d8	120	(33 - 134)
4-Bromofluorobenzene	136	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC/MS Volatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN2AE **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111235
Dilution Factor: 0.99
% Moisture.....: 12 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	280	ug/kg	15
Chlorobenzene	ND	280	ug/kg	7.1
Dibromochloromethane	ND	280	ug/kg	7.8
1,2-Dibromo-3-chloro-propane	ND	560	ug/kg	68
1,2-Dibromoethane	ND	280	ug/kg	11
1,2-Dichlorobenzene	ND	280	ug/kg	19
1,3-Dichlorobenzene	ND	280	ug/kg	8.1
1,4-Dichlorobenzene	ND	280	ug/kg	8.9
trans-1,3-Dichloropropene	ND	280	ug/kg	6.1
Ethylbenzene	ND	280	ug/kg	7.7
2-Hexanone	ND	1100	ug/kg	27
Isopropylbenzene	ND	280	ug/kg	5.8
4-Methyl-2-pentanone	ND	1100	ug/kg	12
Styrene	ND	280	ug/kg	32
1,1,2,2-Tetrachloroethane	ND	280	ug/kg	9.3
Tetrachloroethene	ND	280	ug/kg	10
Toluene	**12 J**	**280**	**ug/kg**	**10**
1,2,4-Trichloro-benzene	ND	280	ug/kg	14
1,1,2-Trichloroethane	ND	280	ug/kg	11
Xylenes (total)	ND	280	ug/kg	17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	75	(30 - 122)
1,2-Dichloroethane-d4	72	(39 - 128)
Toluene-d8	71	(33 - 134)
4-Bromofluorobenzene	67	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN1AQ **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105233
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.6	ug/kg	3.8
Acenaphthylene	ND	7.6	ug/kg	3.8
Anthracene	ND	7.6	ug/kg	3.8
Benzo(a)anthracene	ND	7.6	ug/kg	3.8
Benzo(a)pyrene	ND	7.6	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.6	ug/kg	3.8
Benzo(ghi)perylene	ND	7.6	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.6	ug/kg	3.8
Chrysene	ND	7.6	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.6	ug/kg	3.8
Fluoranthene	ND	7.6	ug/kg	3.8
Fluorene	ND	7.6	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.6	ug/kg	3.8
1-Methylnaphthalene	**9.8**	**7.6**	**ug/kg**	**3.8**
2-Methylnaphthalene	**13**	**7.6**	**ug/kg**	**3.8**
Naphthalene	ND	7.6	ug/kg	3.8
Phenanthrene	ND	7.6	ug/kg	3.8
Pyrene	ND	7.6	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58	(24 - 112)
2-Fluorobiphenyl	55	(34 - 110)
Terphenyl-d14	74	(41 - 119)
Phenol-d5	51	(28 - 110)
2-Fluorophenol	65	(26 - 110)
2,4,6-Tribromophenol	36	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC Volatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	43	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN1AC **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**94**	**19**	**mg/kg**	**11**
C10-C20	**70**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	42	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN1AP **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	62	(10 - 196)
Decachlorobiphenyl	58	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

TOTAL Metals

Lot-Sample #...: A1D130527-006 **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1104032						
Arsenic	**17.5**	**1.0**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DN1AG**
		Dilution Factor: 0.91		MDL.....: 0.31		
Lead	**22.1**	**0.31**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DN1AH**
		Dilution Factor: 0.91		MDL.....: 0.20		
Barium	**72.8 J**	**20.8**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DN1AK**
		Dilution Factor: 0.91		MDL.....: 0.074		
Selenium	ND	0.52	mg/kg	SW846 6010B	04/14-04/15/11	MG0DN1AJ
		Dilution Factor: 0.91		MDL.....: 0.47		
Cadmium	ND	0.52	mg/kg	SW846 6010B	04/14-04/15/11	MG0DN1AL
		Dilution Factor: 0.91		MDL.....: 0.037		
Chromium	**8.4 J**	**1.0**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DN1AM**
		Dilution Factor: 0.91		MDL.....: 0.21		
Silver	ND	1.0	mg/kg	SW846 6010B	04/14-04/15/11	MG0DN1AN
		Dilution Factor: 0.91		MDL.....: 0.10		
Mercury	ND	0.099	mg/kg	SW846 7471A	04/14-04/20/11	MG0DN1AF
		Dilution Factor: 0.87		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB47-OLD-1720-0411

General Chemistry

Lot-Sample #...: A1D130527-006 **Work Order #...:** MG0DN **Matrix.....:** SO
Date Sampled...: 04/12/11 09:01 **Date Received..:** 04/13/11
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

GC/MS Semivolatiles

Lot-Sample #...: A1D130527-007 **Work Order #...:** MG0DQ1AP **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105233
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	ND	7.5	ug/kg	1.2
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**24**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	**36**	**7.5**	**ug/kg**	**3.7**
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**17**	**7.5**	**ug/kg**	**3.7**
Pyrene	**8.8**	**7.5**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47	(24 - 112)
2-Fluorobiphenyl	50	(34 - 110)
Terphenyl-d14	68	(41 - 119)
Phenol-d5	42	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	33	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

GC Volatiles

Lot-Sample #...: A1D130527-007 **Work Order #...:** MG0DQ1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	60	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

GC Semivolatiles

Lot-Sample #...: A1D130527-007 **Work Order #...:** MG0DQ1AC **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**51**	**19**	**mg/kg**	**10**
C10-C20	**33**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	40	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

GC Semivolatiles

Lot-Sample #...: A1D130527-007 **Work Order #...:** MG0DQ1AN **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1
% Moisture.....: 12 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(10 - 196)
Decachlorobiphenyl	68	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

TOTAL Metals

Lot-Sample #...: A1D130527-007 **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
% Moisture.....: 12

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1104032						
Arsenic	**13.5**	**1.1**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DQ1AF**
		Dilution Factor: 0.97		MDL.....: 0.33		
Lead	**10.9**	**0.33**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DQ1AG**
		Dilution Factor: 0.97		MDL.....: 0.21		
Barium	**38.5 J**	**21.9**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DQ1AJ**
		Dilution Factor: 0.97		MDL.....: 0.078		
Selenium	ND	0.55	mg/kg	SW846 6010B	04/14-04/15/11	MG0DQ1AH
		Dilution Factor: 0.97		MDL.....: 0.49		
Cadmium	ND	0.55	mg/kg	SW846 6010B	04/14-04/15/11	MG0DQ1AK
		Dilution Factor: 0.97		MDL.....: 0.039		
Chromium	**9.8 J**	**1.1**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DQ1AL**
		Dilution Factor: 0.97		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/14-04/15/11	MG0DQ1AM
		Dilution Factor: 0.97		MDL.....: 0.11		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/14-04/20/11	MG0DQ1AE
		Dilution Factor: 0.94		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SBDUP412

General Chemistry

Lot-Sample #...: A1D130527-007 **Work Order #...:** MG0DQ **Matrix.....:** SO
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
% Moisture.....: 12

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D130527-008 **Work Order #...:** MG0DX1AP **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105233
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.5	ug/kg	3.7
Acenaphthylene	ND	7.5	ug/kg	3.7
Anthracene	ND	7.5	ug/kg	3.7
Benzo(a)anthracene	ND	7.5	ug/kg	3.7
Benzo(a)pyrene	ND	7.5	ug/kg	3.7
Benzo(b)fluoranthene	ND	7.5	ug/kg	3.7
Benzo(ghi)perylene	ND	7.5	ug/kg	3.7
Benzo(k)fluoranthene	ND	7.5	ug/kg	3.7
Chrysene	ND	7.5	ug/kg	1.2
Dibenz(a,h)anthracene	ND	7.5	ug/kg	3.7
Fluoranthene	ND	7.5	ug/kg	3.7
Fluorene	ND	7.5	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.5	ug/kg	3.7
1-Methylnaphthalene	**11**	**7.5**	**ug/kg**	**3.7**
2-Methylnaphthalene	ND	7.5	ug/kg	3.7
Naphthalene	ND	7.5	ug/kg	3.7
Phenanthrene	**11**	**7.5**	**ug/kg**	**3.7**
Pyrene	ND	7.5	ug/kg	3.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	45	(24 - 112)
2-Fluorobiphenyl	46	(34 - 110)
Terphenyl-d14	65	(41 - 119)
Phenol-d5	43	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	26	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

GC Volatiles

Lot-Sample #...: A1D130527-008 **Work Order #...:** MG0DX1AA **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	62	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-008 **Work Order #...:** MG0DX1AC **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**44**	**19**	**mg/kg**	**10**
C10-C20	**28**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

GC Semivolatiles

Lot-Sample #...: A1D130527-008 **Work Order #...:** MG0DX1AN **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(10 - 196)
Decachlorobiphenyl	67	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

TOTAL Metals

Lot-Sample #...: A1D130527-008 **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1104032						
Arsenic	**11.9**	**0.90**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DX1AF**
		Dilution Factor: 0.8		MDL.....: 0.27		
Lead	**12.8**	**0.27**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DX1AG**
		Dilution Factor: 0.8		MDL.....: 0.17		
Barium	**39.4 J**	**18.1**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DX1AJ**
		Dilution Factor: 0.8		MDL.....: 0.064		
Selenium	ND	0.45	mg/kg	SW846 6010B	04/14-04/15/11	MG0DX1AH
		Dilution Factor: 0.8		MDL.....: 0.41		
Cadmium	**0.35 B**	**0.45**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DX1AK**
		Dilution Factor: 0.8		MDL.....: 0.033		
Chromium	**8.7 J**	**0.90**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG0DX1AL**
		Dilution Factor: 0.8		MDL.....: 0.18		
Silver	ND	0.90	mg/kg	SW846 6010B	04/14-04/15/11	MG0DX1AM
		Dilution Factor: 0.8		MDL.....: 0.090		
Mercury	ND	0.082	mg/kg	SW846 7471A	04/14-04/20/11	MG0DX1AE
		Dilution Factor: 0.73		MDL.....: 0.012		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB61-CSA-2225-0411

General Chemistry

Lot-Sample #...: A1D130527-008 **Work Order #...:** MG0DX **Matrix.....:** SO
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**88.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/14-04/15/11**	**1104149**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D130527-009 **Work Order #...:** MG0D11AA **Matrix.....:** WQ
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111268
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**12 B**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**0.21 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	**0.28 J**	**1.0**	**ug/L**	**0.19**
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	**8.3**	**1.0**	**ug/L**	**0.33**
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D130527-009 **Work Order #...:** MG0D11AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.61 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(75 - 121)
1,2-Dichloroethane-d4	84	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	87	(66 - 117)

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5RR1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-220
Prep Date.....: 04/15/11
Analysis Date..: 04/15/11 **Prep Batch #...:** 1108220
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.0 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**5.6 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**2.6 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.1 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.40 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5RR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(30 - 122)
1,2-Dichloroethane-d4	102	(39 - 128)
Toluene-d8	90	(33 - 134)
4-Bromofluorobenzene	98	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5471AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-245
Prep Date.....: 04/14/11
Analysis Date..: 04/14/11 **Prep Batch #...:** 1108245
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**9.0 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**3.1 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.0 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260A

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5471AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	103	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG7DE1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-161
Prep Date.....: 04/18/11
Analysis Date..: 04/18/11 **Prep Batch #...:** 1109161
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**5.9 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	**5.1 J**	**20**	**ug/kg**	**SW846 8260A**
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.33 J**	**5.0**	**ug/kg**	**SW846 8260A**
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
1,2-Dichloroethane-d4	92	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	98	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHA7K1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D210000-235

Prep Date.....: 04/20/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1111235
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	250	ug/kg	SW846 8260A
Chlorobenzene	ND	250	ug/kg	SW846 8260A
Dibromochloromethane	ND	250	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260A
Ethylbenzene	ND	250	ug/kg	SW846 8260A
2-Hexanone	ND	1000	ug/kg	SW846 8260A
Isopropylbenzene	ND	250	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260A
Styrene	ND	250	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260A
Tetrachloroethene	ND	250	ug/kg	SW846 8260A
Toluene	ND	250	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260A
Xylenes (total)	ND	250	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	78	(30 - 122)
1,2-Dichloroethane-d4	117	(39 - 128)
Toluene-d8	84	(33 - 134)
4-Bromofluorobenzene	97	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHCFQ1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D210000-268

Prep Date.....: 04/21/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1111268
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**1.3 J**	**10**	**ug/L**	**SW846 8260B**
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHCFQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(75 - 121)
1,2-Dichloroethane-d4	84	(63 - 129)
Toluene-d8	91	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG02P1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D140000-058

Prep Date.....: 04/14/11
Analysis Date..: 04/26/11 **Prep Batch #...:** 1104058
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	57	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
Terphenyl-d14	70	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	61	(10 - 110)
2,4,6-Tribromophenol	58	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG3TN1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-233
Prep Date.....: 04/15/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1105233
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(24 - 112)
2-Fluorobiphenyl	64	(34 - 110)
Terphenyl-d14	82	(41 - 119)
Phenol-d5	72	(28 - 110)
2-Fluorophenol	75	(26 - 110)
2,4,6-Tribromophenol	60	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHHCM1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D260000-105
Prep Date.....: 04/25/11
Analysis Date..: 04/25/11 **Prep Batch #...:** 1116105
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	76	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHJ151AA **Matrix.....:** WATER
MB Lot-Sample #: A1D270000-139
Prep Date.....: 04/26/11
Analysis Date..: 04/26/11 **Prep Batch #...:** 1117139
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/L	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	81	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG6N91AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-042
Prep Date.....: 04/19/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1109042
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	47	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0191AA **Matrix.....:** WATER
MB Lot-Sample #: A1D140000-050
Prep Date.....: 04/14/11
Analysis Date..: 04/17/11 **Prep Batch #...:** 1104050
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.50	ug/L	SW846 8082
Aroclor 1221	ND	0.50	ug/L	SW846 8082
Aroclor 1232	ND	0.50	ug/L	SW846 8082
Aroclor 1242	ND	0.50	ug/L	SW846 8082
Aroclor 1248	ND	0.50	ug/L	SW846 8082
Aroclor 1254	ND	0.50	ug/L	SW846 8082
Aroclor 1260	ND	0.50	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(27 - 130)
Decachlorobiphenyl	65	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2141AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-057
Prep Date.....: 04/15/11
Analysis Date..: 04/19/11 **Prep Batch #...:** 1105057
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	99	(10 - 196)
Decachlorobiphenyl	80	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D130527 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D140000-032 **Prep Batch #...:** 1104032						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/14-04/15/11	MG01J1AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/14-04/15/11	MG01J1AF
		Dilution Factor: 1				
Barium	**0.14 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG01J1AL**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/14-04/15/11	MG01J1AG
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/14-04/15/11	MG01J1A9
		Dilution Factor: 1				
Chromium	**0.29 B**	**1.0**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG01J1CA**
		Dilution Factor: 1				
Silver	**0.10 B**	**1.0**	**mg/kg**	**SW846 6010B**	**04/14-04/15/11**	**MG01J1CC**
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/14-04/20/11	MG01J1AQ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D130527 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MG1TM1AA		MB Lot-Sample #:	A1D140000-149	
	ND	10.0	%	MCAWW 160.3 MOD	04/14-04/15/11	1104149
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220
Prep Date.....: 04/15/11 **Analysis Date..:** 04/15/11
Prep Batch #...: 1108220
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	91	(16 - 156)	SW846 8260A
Benzene	**88**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	92	(61 - 121)	SW846 8260A
Bromodichloromethane	**106**	**(28 - 123)**	**SW846 8260A**
Bromoform	128 a	(10 - 117)	SW846 8260A
Bromomethane	50	(10 - 114)	SW846 8260A
2-Butanone	**96**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**98**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**109**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**97**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**115 a**	**(22 - 113)**	**SW846 8260A**
Chloroethane	103	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	104	(40 - 120)	SW846 8260A
Chloromethane	74	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**109**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**110**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	119	(48 - 151)	SW846 8260A
Methyl acetate	89	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**107**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	96	(41 - 133)	SW846 8260A
o-Xylene	**112**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**108**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**106**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	97	(25 - 140)	SW846 8260A
Acetonitrile	90	(15 - 179)	SW846 8260A
Acrolein	95	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	96	(49 - 126)	SW846 8260A
Bromobenzene	**107**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**100**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**107**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	59	(10 - 110)	SW846 8260A
sec-Butylbenzene	**105**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**107**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**109**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**93**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**109**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**104**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**102**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**106**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	103	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**98**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	112	(34 - 135)	SW846 8260A
Iodomethane	130	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**93**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**115**	**(56 - 136)**	**SW846 8260A**
Naphthalene	102	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**91**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**107**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**111**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	123	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**91**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**107**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**109**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**109**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	119	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**96**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**107**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**120**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**103**	**(66 - 119)**	**SW846 8260A**
n-Hexane	100	(51 - 144)	SW846 8260A
2-Hexanone	**102**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**107**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**83**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**106**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**112**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5RR1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-220

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**112**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**93**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**107**	**(58 - 131)**	**SW846 8260A**
Toluene	**94**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	124	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**103**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**101**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**99**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	110	(17 - 145)	SW846 8260A
Vinyl chloride	**77**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**109**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	99	(39 - 128)
Toluene-d8	97	(33 - 134)
4-Bromofluorobenzene	104	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245
Prep Date.....: 04/14/11 **Analysis Date..:** 04/14/11
Prep Batch #...: 1108245
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	88	(16 - 156)	SW846 8260A
Benzene	**86**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	92	(61 - 121)	SW846 8260A
Bromodichloromethane	**105**	**(28 - 123)**	**SW846 8260A**
Bromoform	125 a	(10 - 117)	SW846 8260A
Bromomethane	54	(10 - 114)	SW846 8260A
2-Butanone	**99**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**97**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**109**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**96**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**113**	**(22 - 113)**	**SW846 8260A**
Chloroethane	111	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	105	(40 - 120)	SW846 8260A
Chloromethane	80	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**113**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**107**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	117	(48 - 151)	SW846 8260A
Methyl acetate	89	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**106**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	97	(41 - 133)	SW846 8260A
o-Xylene	**114**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**109**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**105**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	99	(25 - 140)	SW846 8260A
Acetonitrile	88	(15 - 179)	SW846 8260A
Acrolein	100	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	97	(49 - 126)	SW846 8260A
Bromobenzene	**105**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**102**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**110**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	63	(10 - 110)	SW846 8260A
sec-Butylbenzene	**105**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**108**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**107**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**92**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**106**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**102**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**102**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**103**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	103	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**97**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	116	(34 - 135)	SW846 8260A
Iodomethane	134	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**95**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	94	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**115**	**(56 - 136)**	**SW846 8260A**
Naphthalene	104	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**89**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**108**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**111**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	120	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**92**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**111**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**109**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**108**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	117	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**96**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**106**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**121**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**103**	**(66 - 119)**	**SW846 8260A**
n-Hexane	106	(51 - 144)	SW846 8260A
2-Hexanone	**105**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**107**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**87**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**108**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**111**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG5471AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-245

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**112**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**91**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**106**	**(58 - 131)**	**SW846 8260A**
Toluene	**94**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	124	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**102**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**100**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**101**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	106	(17 - 145)	SW846 8260A
Vinyl chloride	**81**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**111**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	95	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161
Prep Date.....: 04/18/11 **Analysis Date..:** 04/18/11
Prep Batch #...: 1109161
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	76	(25 - 110)	SW846 8260A
Bromomethane	65	(10 - 114)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Chloroethane	140 a	(10 - 120)	SW846 8260A
Methylene chloride	**90**	**(27 - 172)**	**SW846 8260A**
Acetone	82	(16 - 156)	SW846 8260A
Carbon disulfide	**98**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**88**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**94**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	94	(61 - 121)	SW846 8260A
Chloroform	**95**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**96**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**93**	**(10 - 199)**	**SW846 8260A**
Bromoform	121 a	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**93**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**97**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**103**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**102**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**109**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**94**	**(59 - 124)**	**SW846 8260A**
Benzene	**96**	**(70 - 117)**	**SW846 8260A**
Chlorobenzene	**99**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**109**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**96**	**(60 - 125)**	**SW846 8260A**
trans-1,2-Dichloroethene	**91**	**(58 - 121)**	**SW846 8260A**
n-Hexane	107	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**109**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	98	(40 - 120)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**108**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	64	(10 - 110)	SW846 8260A
1,2-Dibromoethane	**111**	**(47 - 123)**	**SW846 8260A**
Trichlorofluoromethane	95	(17 - 145)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorotrifluoroethane	103	(48 - 151)	SW846 8260A
Methyl acetate	85	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**109**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	99	(41 - 133)	SW846 8260A
o-Xylene	**115**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**112**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**108**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	96	(25 - 140)	SW846 8260A
Acetonitrile	85	(15 - 179)	SW846 8260A
Acrolein	99	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	94	(49 - 126)	SW846 8260A
Bromobenzene	**107**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**95**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**118**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**109**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**104**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**112**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**112**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**104**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**110**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	94	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**99**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	105	(34 - 135)	SW846 8260A
Iodomethane	117	(49 - 134)	SW846 8260A
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**116**	**(56 - 136)**	**SW846 8260A**
Naphthalene	105	(37 - 126)	SW846 8260A
n-Propylbenzene	**112**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**107**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	117	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**111**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**111**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**109**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	103	(48 - 151)	SW846 8260A
trans-1,3-Dichloropropene	**124 a**	**(22 - 122)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG7DE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-161

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Ethylbenzene	**107**	**(66 - 119)**	**SW846 8260A**
2-Hexanone	**101**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**106**	**(61 - 123)**	**SW846 8260A**
4-Methyl-2-pentanone	**104**	**(49 - 121)**	**SW846 8260A**
Styrene	**115**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**111**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**97**	**(58 - 131)**	**SW846 8260A**
Toluene	**100**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	118	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**110**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**113**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
1,2-Dichloroethane-d4	88	(39 - 128)
Toluene-d8	98	(33 - 134)
4-Bromofluorobenzene	102	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHA7K1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-235
Prep Date.....: 04/20/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111235
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	57	(25 - 110)	SW846 8260A
Bromomethane	46	(10 - 114)	SW846 8260A
Vinyl chloride	**65**	**(33 - 110)**	**SW846 8260A**
Chloroethane	69	(10 - 120)	SW846 8260A
Methylene chloride	**89**	**(27 - 172)**	**SW846 8260A**
Acetone	98	(16 - 156)	SW846 8260A
Carbon disulfide	**52**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**73**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**83**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	76	(61 - 121)	SW846 8260A
Chloroform	**84**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**102**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**102**	**(10 - 199)**	**SW846 8260A**
Bromoform	41	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**67**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**55**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**63**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**85**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**60**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**82**	**(59 - 124)**	**SW846 8260A**
Benzene	**83**	**(70 - 117)**	**SW846 8260A**
Chlorobenzene	**90**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**55**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**79**	**(60 - 125)**	**SW846 8260A**
1,2-Dibromo-3-chloro-propane	**46**	**(10 - 129)**	**SW846 8260A**
trans-1,2-Dichloroethene	**73**	**(58 - 121)**	**SW846 8260A**
n-Hexane	79	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**73**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	80	(40 - 120)	SW846 8260A
Dichlorodifluoromethane	37	(10 - 110)	SW846 8260A
1,2-Dibromoethane	**82**	**(47 - 123)**	**SW846 8260A**
Trichlorofluoromethane	75	(17 - 145)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHA7K1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-235

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorotrifluoroethane	86	(48 - 151)	SW846 8260A
Methyl acetate	101	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**89**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	72	(41 - 133)	SW846 8260A
o-Xylene	**83**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**90**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**89**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	108	(25 - 140)	SW846 8260A
Acetonitrile	108	(15 - 179)	SW846 8260A
Acrolein	95	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**86**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	90	(49 - 126)	SW846 8260A
Bromobenzene	**87**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**79**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**92**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**88**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**84**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**82**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**89**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**85**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**96**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	53	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**84**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	97	(34 - 135)	SW846 8260A
Iodomethane	83	(49 - 134)	SW846 8260A
Isopropyl ether	85	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**90**	**(56 - 136)**	**SW846 8260A**
Naphthalene	62	(37 - 126)	SW846 8260A
n-Propylbenzene	**88**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**63**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	80	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**89**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**89**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**90**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	86	(48 - 151)	SW846 8260A
trans-1,3-Dichloropropene	**63**	**(22 - 122)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHA7K1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-235

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Ethylbenzene	**91**	**(66 - 119)**	**SW846 8260A**
2-Hexanone	**89**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**81**	**(61 - 123)**	**SW846 8260A**
4-Methyl-2-pentanone	**84**	**(49 - 121)**	**SW846 8260A**
Styrene	**77**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**86**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**86**	**(58 - 131)**	**SW846 8260A**
Toluene	**92**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	86	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**90**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**88**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	73	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	75	(33 - 134)
4-Bromofluorobenzene	89	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHCFQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-268
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111268
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	84	(43 - 136)	SW846 8260B
Benzene	**87**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	87	(82 - 114)	SW846 8260B
Bromodichloromethane	**86**	**(72 - 121)**	**SW846 8260B**
Bromoform	89	(40 - 131)	SW846 8260B
Bromomethane	81	(11 - 185)	SW846 8260B
2-Butanone	**84**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**92**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**88**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**91**	**(64 - 119)**	**SW846 8260B**
Chloroethane	83	(25 - 153)	SW846 8260B
Chloroform	**85**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	108	(74 - 151)	SW846 8260B
Methyl acetate	80	(58 - 131)	SW846 8260B
Chloromethane	65	(44 - 126)	SW846 8260B
Cyclohexane	100	(54 - 121)	SW846 8260B
Methylcyclohexane	103	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**91**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**91**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**90**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**92**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**90**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**93**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	86	(52 - 131)	SW846 8260B
Acetonitrile	88	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**87**	**(82 - 110)**	**SW846 8260B**
Acrolein	96	(51 - 170)	SW846 8260B
Vinyl acetate	107	(46 - 161)	SW846 8260B
Acrylonitrile	85	(66 - 132)	SW846 8260B
Bromobenzene	**92**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHCFQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-268

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	59	(19 - 129)	SW846 8260B
Bromochloromethane	**85**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**98**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**99**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**87**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**108**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**94**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**92**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**86**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**91**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**90**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	89	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**90**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**86**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	88	(36 - 134)	SW846 8260B
Iodomethane	95	(72 - 141)	SW846 8260B
Isopropyl ether	85	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**89**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**102**	**(74 - 120)**	**SW846 8260B**
Naphthalene	82	(32 - 141)	SW846 8260B
n-Propylbenzene	**99**	**(74 - 121)**	**SW846 8260B**
1,1-Dichloroethene	**96**	**(78 - 131)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**89**	**(72 - 116)**	**SW846 8260B**
1,2,3-Trichlorobenzene	84	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**92**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**98**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**90**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**98**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**85**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**92**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**92**	**(83 - 112)**	**SW846 8260B**
n-Hexane	107	(66 - 137)	SW846 8260B
2-Hexanone	**91**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**93**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**85**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**85**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**88**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHCFQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D210000-268

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**90**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**91**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**91**	**(79 - 114)**	**SW846 8260B**
Toluene	**92**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	89	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**91**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**92**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**86**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	107	(49 - 157)	SW846 8260B
Vinyl chloride	**78**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**93**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(75 - 121)
1,2-Dichloroethane-d4	86	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	95	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG02P1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D140000-058
Prep Date.....: 04/14/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1104058
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**69**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**73**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**72**	**(43 - 110)**	**SW846 8270C**
Anthracene	**77**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**77**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**81**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**66**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**79**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**79**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**76**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**75**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**69**	**(19 - 110)**	**SW846 8270C**
Chrysene	**80**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**80**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**53**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**82**	**(54 - 122)**	**SW846 8270C**
Phenol	**62**	**(14 - 112)**	**SW846 8270C**
Fluorene	**73**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**79**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**71**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	70	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**74**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**83**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**69**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**65**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**77**	**(52 - 114)**	**SW846 8270C**
Pyrene	**77**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**72**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**68**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**76**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	71	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG02P1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D140000-058

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**77**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**76**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**68**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**73**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**82**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**71**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**74**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**62**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	40	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**81**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**71**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**69**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**75**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**72**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	63	(19 - 110)	SW846 8270C
3-Nitroaniline	**74**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	59	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**80**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	52	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**37 a**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**84**	**(53 - 126)**	**SW846 8270C**
Carbazole	**77**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**73**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**77**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**76**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**81**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**79**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**71**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**70**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG02P1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D140000-058

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**75**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**74**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**77**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**82**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	43	(10 - 110)	SW846 8270C
Benzoic acid	30	(10 - 129)	SW846 8270C
Atrazine	105	(50 - 130)	SW846 8270C
Acetophenone	75	(50 - 130)	SW846 8270C
1,1'-Biphenyl	71	(50 - 130)	SW846 8270C
Aniline	28	(10 - 130)	SW846 8270C
Benzyl alcohol	71	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**60**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	70	(10 - 130)	SW846 8270C
Benzaldehyde	85	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	73	(25 - 128)	SW846 8270C
1,4-Dioxane	49	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	68	(27 - 111)
2-Fluorobiphenyl	69	(28 - 110)
Terphenyl-d14	88	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	64	(10 - 110)
2,4,6-Tribromophenol	77	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG3TN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-233
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105233
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**73**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**77**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**77**	**(47 - 110)**	**SW846 8270C**
Anthracene	**87**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**86**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**91**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**77**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**106**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**89**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**83**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**73**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**71**	**(38 - 110)**	**SW846 8270C**
Chrysene	**82**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**95**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**60**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**89**	**(55 - 118)**	**SW846 8270C**
Phenol	**80**	**(39 - 110)**	**SW846 8270C**
Fluorene	**76**	**(51 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**88**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**79**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	79	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**87**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**86**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**73**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**86**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**82**	**(54 - 110)**	**SW846 8270C**
Pyrene	**81**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**77**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**77**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**85**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	87	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG3TN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-233

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**87**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**78**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**90**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**79**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**94**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**80**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**77**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**58**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	54	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**90**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**77**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**80**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**94**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**79**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	59	(31 - 110)	SW846 8270C
3-Nitroaniline	**81**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	85	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**83**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	64	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**38 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**90**	**(57 - 121)**	**SW846 8270C**
Carbazole	**86**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**79**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**87**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**85**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**88**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**90**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**78**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**84**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG3TN1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-233

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**80**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**82**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**85**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**98**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	52	(10 - 110)	SW846 8270C
Benzoic acid	33	(10 - 124)	SW846 8270C
Pyridine	52	(22 - 110)	SW846 8270C
Atrazine	103	(50 - 130)	SW846 8270C
Acetophenone	73	(50 - 130)	SW846 8270C
1,1'-Biphenyl	60	(50 - 130)	SW846 8270C
Caprolactam	74	(50 - 130)	SW846 8270C
Aniline	57	(10 - 130)	SW846 8270C
Benzyl alcohol	80	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**78**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	71	(10 - 130)	SW846 8270C
Benzaldehyde	90	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	79	(36 - 116)	SW846 8270C
1,4-Dioxane	29	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	67	(24 - 112)
2-Fluorobiphenyl	62	(34 - 110)
Terphenyl-d14	78	(41 - 119)
Phenol-d5	69	(28 - 110)
2-Fluorophenol	72	(26 - 110)
2,4,6-Tribromophenol	72	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHHCM1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D260000-105
Prep Date.....: 04/25/11 **Analysis Date..:** 04/25/11
Prep Batch #...: 1116105
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**115**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	107	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MHJ151AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D270000-139
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1117139
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**111**	**(72 - 140)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	106	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG6N91AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-042
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**100**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	37	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0191AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D140000-050
Prep Date.....: 04/14/11 **Analysis Date..:** 04/17/11
Prep Batch #...: 1104050
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**92**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**86**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(27 - 130)
Decachlorobiphenyl	29	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2141AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-057
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**86**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**92**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	88	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D130527 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D140000-032 **Prep Batch #...:** 1104032					
Arsenic	92	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1AT
		Dilution Factor: 1			
Lead	95	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1AW
		Dilution Factor: 1			
Selenium	91	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1AX
		Dilution Factor: 1			
Barium	96	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1A3
		Dilution Factor: 1			
Cadmium	96	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1CE
		Dilution Factor: 1			
Chromium	98	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1CF
		Dilution Factor: 1			
Silver	104	(80 - 120)	SW846 6010B	04/14-04/15/11	MG01J1CG
		Dilution Factor: 1			
Mercury	101	(73 - 121)	SW846 7471A	04/14-04/20/11	MG01J1A7
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2JM1A9-MS **Matrix.....:** WASTE
MS Lot-Sample #: A1D140604-006 MG2JM1CA-MSD
Date Sampled...: 04/12/11 14:00 **Date Received..:** 04/14/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111235
Dilution Factor: 1.74 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**132**	**(10 - 179)**			**SW846 8260A**
	137	**(10 - 179)**	**5.6**	**(0-30)**	**SW846 8260A**
Chloromethane	56	(16 - 115)			SW846 8260A
	55	(16 - 115)	11	(0-30)	SW846 8260A
Bromomethane	19	(10 - 151)			SW846 8260A
	15	(10 - 151)	31	(0-30)	SW846 8260A
Vinyl chloride	**65**	**(15 - 123)**			**SW846 8260A**
	63	**(15 - 123)**	**12**	**(0-30)**	**SW846 8260A**
Chloroethane	71 a	(10 - 168)			SW846 8260A
	70 a	(10 - 168)	10	(0-30)	SW846 8260A
Methylene chloride	**78**	**(10 - 148)**			**SW846 8260A**
	79	**(10 - 148)**	**6.5**	**(0-30)**	**SW846 8260A**
Acetone	95 *	(10 - 142)			SW846 8260A
	84 *	(10 - 142)	19	(0-30)	SW846 8260A
Carbon disulfide	**0.0**	**(10 - 155)**			**SW846 8260A**
	0.0	**(10 - 155)**	**0.0**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**86**	**(18 - 160)**			**SW846 8260A**
	90	**(18 - 160)**	**4.2**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	78	(29 - 139)			SW846 8260A
	80	(29 - 139)	6.3	(0-30)	SW846 8260A
Chloroform	**89**	**(51 - 120)**			**SW846 8260A**
	89	**(51 - 120)**	**8.7**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**107**	**(25 - 150)**			**SW846 8260A**
	103	**(25 - 150)**	**13**	**(0-30)**	**SW846 8260A**
Bromoform	40	(10 - 147)			SW846 8260A
	36	(10 - 147)	19	(0-30)	SW846 8260A
2-Butanone	**114**	**(10 - 172)**			**SW846 8260A**
	97 p	**(10 - 172)**	**25**	**(0-30)**	**SW846 8260A**
1,1,1-Trichloroethane	**64**	**(10 - 159)**			**SW846 8260A**
	67	**(10 - 159)**	**4.1**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**51 a**	**(12 - 135)**			**SW846 8260A**
	56 a	**(12 - 135)**	**0.07**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**64**	**(18 - 133)**			**SW846 8260A**
	62	**(18 - 133)**	**12**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**95**	**(58 - 118)**			**SW846 8260A**
	92	**(58 - 118)**	**12**	**(0-30)**	**SW846 8260A**
cis-1,3-Dichloropropene	**62**	**(19 - 121)**			**SW846 8260A**
	57	**(19 - 121)**	**17**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2JM1A9-MS **Matrix.....:** WASTE
MS Lot-Sample #: A1D140604-006 MG2JM1CA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Trichloroethene	**215 a**	**(10 - 193)**			**SW846 8260A**
	219 a	**(10 - 193)**	**7.3**	**(0-30)**	**SW846 8260A**
Benzene	**89 a**	**(10 - 199)**			**SW846 8260A**
	88 a	**(10 - 199)**	**11**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**93**	**(47 - 118)**			**SW846 8260A**
	90	**(47 - 118)**	**12**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**56**	**(10 - 128)**			**SW846 8260A**
	54	**(10 - 128)**	**13**	**(0-30)**	**SW846 8260A**
1,2-Dibromo-3-chloro- propane	**0.0**	**(10 - 137)**			**SW846 8260A**
	0.0	**(10 - 137)**	**0.0**	**(0-30)**	**SW846 8260A**
cis-1,2-Dichloroethene	**81**	**(34 - 137)**			**SW846 8260A**
	83	**(34 - 137)**	**5.7**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**75**	**(40 - 126)**			**SW846 8260A**
	77	**(40 - 126)**	**6.9**	**(0-30)**	**SW846 8260A**
n-Hexane	90	(18 - 148)			SW846 8260A
	91	(18 - 148)	8.3	(0-30)	SW846 8260A
Methyl tert-butyl ether	**77**	**(26 - 159)**			**SW846 8260A**
	74	**(26 - 159)**	**13**	**(0-30)**	**SW846 8260A**
Cyclohexane	77	(10 - 154)			SW846 8260A
	83	(10 - 154)	1.8	(0-30)	SW846 8260A
Dichlorodifluoromethane	34	(10 - 113)			SW846 8260A
	35	(10 - 113)	6.8	(0-30)	SW846 8260A
1,2-Dibromoethane	**71**	**(32 - 127)**			**SW846 8260A**
	62	**(32 - 127)**	**23**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	76	(10 - 157)			SW846 8260A
	73	(10 - 157)	14	(0-30)	SW846 8260A
Trichlorotrifluoroethane	88	(23 - 168)			SW846 8260A
	88	(23 - 168)	10	(0-30)	SW846 8260A
Methyl acetate	0.0	(10 - 175)			SW846 8260A
	0.0	(10 - 175)	0.0	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**94**	**(27 - 126)**			**SW846 8260A**
	91	**(27 - 126)**	**12**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	78 a	(11 - 156)			SW846 8260A
	78 a	(11 - 156)	8.6	(0-30)	SW846 8260A
o-Xylene	**89**	**(18 - 151)**			**SW846 8260A**
	88	**(18 - 151)**	**9.7**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**91 ***	**(14 - 151)**			**SW846 8260A**
	88 *	**(14 - 151)**	**13**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**92**	**(29 - 124)**			**SW846 8260A**
	89	**(29 - 124)**	**13**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2JM1A9-MS **Matrix.....:** WASTE
MS Lot-Sample #: A1D140604-006 MG2JM1CA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2-Chloroethyl vinyl ether	131	(10 - 137)			SW846 8260A
	125	(10 - 137)	14	(0-30)	SW846 8260A
Acetonitrile	100	(10 - 173)			SW846 8260A
	93	(10 - 173)	16	(0-30)	SW846 8260A
Acrolein	18	(10 - 145)			SW846 8260A
	15	(10 - 145)	26	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**88**	**(30 - 123)**			**SW846 8260A**
	87	**(30 - 123)**	**10**	**(0-30)**	**SW846 8260A**
Acrylonitrile	3.5	(28 - 126)			SW846 8260A
	3.6	(28 - 126)	8.0	(0-30)	SW846 8260A
Bromobenzene	**93**	**(49 - 119)**			**SW846 8260A**
	89	**(49 - 119)**	**13**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**88**	**(42 - 123)**			**SW846 8260A**
	83	**(42 - 123)**	**15**	**(0-30)**	**SW846 8260A**
n-Butylbenzene	**98**	**(13 - 154)**			**SW846 8260A**
	96	**(13 - 154)**	**11**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**92**	**(41 - 133)**			**SW846 8260A**
	93	**(41 - 133)**	**8.4**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**90**	**(45 - 132)**			**SW846 8260A**
	92	**(45 - 132)**	**6.2**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**91**	**(51 - 118)**			**SW846 8260A**
	88	**(51 - 118)**	**12**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**93**	**(43 - 120)**			**SW846 8260A**
	88	**(43 - 120)**	**15**	**(0-30)**	**SW846 8260A**
Dibromomethane	**94**	**(45 - 121)**			**SW846 8260A**
	86	**(45 - 121)**	**18**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**104**	**(58 - 117)**			**SW846 8260A**
	96	**(58 - 117)**	**17**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	53	(26 - 127)			SW846 8260A
	55	(26 - 127)	4.8	(0-30)	SW846 8260A
1,1-Dichloropropene	**89**	**(42 - 126)**			**SW846 8260A**
	86	**(42 - 126)**	**12**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	95	(10 - 134)			SW846 8260A
	96	(10 - 134)	8.4	(0-30)	SW846 8260A
Iodomethane	36	(27 - 140)			SW846 8260A
	33	(27 - 140)	17	(0-30)	SW846 8260A
p-Isopropyltoluene	**99**	**(33 - 139)**			**SW846 8260A**
	100	**(33 - 139)**	**7.6**	**(0-30)**	**SW846 8260A**
Naphthalene	70	(10 - 199)			SW846 8260A
	67	(10 - 199)	13	(0-30)	SW846 8260A
n-Propylbenzene	**93**	**(41 - 135)**			**SW846 8260A**
	91	**(41 - 135)**	**11**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2JM1A9-MS **Matrix.....:** WASTE
MS Lot-Sample #: A1D140604-006 MG2JM1CA-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,1,2-Tetrachloroethane	**4.8**	**(19 - 124)**			**SW846 8260A**
	3.1	**(19 - 124)**	**53**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	81	(10 - 123)			SW846 8260A
	81	(10 - 123)	8.7	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**63 a**	**(54 - 142)**			**SW846 8260A**
	54 a	**(54 - 142)**	**24**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**95**	**(10 - 199)**			**SW846 8260A**
	96	**(10 - 199)**	**7.8**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**94**	**(10 - 173)**			**SW846 8260A**
	93	**(10 - 173)**	**10**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	88	(23 - 168)			SW846 8260A
	88	(23 - 168)	10	(0-30)	SW846 8260A
trans-1,3-Dichloropropene	**68**	**(10 - 136)**			**SW846 8260A**
	64	**(10 - 136)**	**15**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**91**	**(27 - 143)**			**SW846 8260A**
	88	**(27 - 143)**	**13**	**(0-30)**	**SW846 8260A**
2-Hexanone	**104**	**(21 - 141)**			**SW846 8260A**
	92	**(21 - 141)**	**22**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**86**	**(39 - 126)**			**SW846 8260A**
	86	**(39 - 126)**	**9.0**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**98**	**(19 - 151)**			**SW846 8260A**
	83	**(19 - 151)**	**25**	**(0-30)**	**SW846 8260A**
Styrene	**85**	**(31 - 137)**			**SW846 8260A**
	83	**(31 - 137)**	**12**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**1.7 a**	**(16 - 158)**			**SW846 8260A**
	1.3 a,p	**(16 - 158)**	**34**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**96 a**	**(19 - 153)**			**SW846 8260A**
	95 a,p	**(19 - 153)**	**10**	**(0-30)**	**SW846 8260A**
Toluene	**96**	**(10 - 168)**			**SW846 8260A**
	95	**(10 - 168)**	**10**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	87	(10 - 136)			SW846 8260A
	85	(10 - 136)	11	(0-30)	SW846 8260A
1,1,2-Trichloroethane	**0.0**	**(34 - 152)**			**SW846 8260A**
	0.0	**(34 - 152)**	**0.0**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**90**	**(16 - 150)**			**SW846 8260A**
	88	**(16 - 150)**	**12**	**(0-30)**	**SW846 8260A**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2JM1A9-MS **Matrix.....:** WASTE
MS Lot-Sample #: A1D140604-006 MG2JM1CA-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	0.0	(30 - 122)
	0.0	(30 - 122)
1,2-Dichloroethane-d4	110	(39 - 128)
	104	(39 - 128)
Toluene-d8	80	(33 - 134)
	79	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)
	90	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0J81E1-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130538-002 MG0J81E2-MSD
Date Sampled...: 04/12/11 07:45 **Date Received..:** 04/13/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111268
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	81	(33 - 145)			SW846 8260B
	80	(33 - 145)	2.4	(0-30)	SW846 8260B
Benzene	**90**	**(72 - 121)**			**SW846 8260B**
	81	**(72 - 121)**	**10**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**89**	**(67 - 120)**			**SW846 8260B**
	80	**(67 - 120)**	**11**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	89	(75 - 119)			SW846 8260B
	81	(75 - 119)	9.9	(0-30)	SW846 8260B
Bromoform	87	(32 - 128)			SW846 8260B
	81	(32 - 128)	6.1	(0-30)	SW846 8260B
Bromomethane	70	(10 - 186)			SW846 8260B
	70	(10 - 186)	1.3	(0-30)	SW846 8260B
2-Butanone	**89**	**(54 - 129)**			**SW846 8260B**
	84	**(54 - 129)**	**6.1**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**93**	**(57 - 147)**			**SW846 8260B**
	86	**(57 - 147)**	**7.3**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**93**	**(59 - 129)**			**SW846 8260B**
	88	**(59 - 129)**	**5.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**92**	**(80 - 110)**			**SW846 8260B**
	83	**(80 - 110)**	**10**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**91**	**(56 - 118)**			**SW846 8260B**
	84	**(56 - 118)**	**7.5**	**(0-30)**	**SW846 8260B**
Chloroethane	81	(21 - 165)			SW846 8260B
	76	(21 - 165)	6.2	(0-30)	SW846 8260B
Chloroform	**89**	**(76 - 118)**			**SW846 8260B**
	79	**(76 - 118)**	**11**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	100	(70 - 152)			SW846 8260B
	106	(70 - 152)	5.1	(0-30)	SW846 8260B
Methyl acetate	83	(47 - 130)			SW846 8260B
	78	(47 - 130)	5.9	(0-30)	SW846 8260B
Chloromethane	65	(33 - 132)			SW846 8260B
	59	(33 - 132)	9.7	(0-30)	SW846 8260B
Cyclohexane	94	(49 - 123)			SW846 8260B
	100	(49 - 123)	6.4	(0-30)	SW846 8260B
Methylcyclohexane	94	(49 - 127)			SW846 8260B
	100	(49 - 127)	7.1	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0J81E1-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130538-002 MG0J81E2-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**98**	**(32 - 139)**			**SW846 8260B**
	92	**(32 - 139)**	**6.7**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**94**	**(74 - 113)**			**SW846 8260B**
	87	**(74 - 113)**	**7.4**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**93**	**(75 - 111)**			**SW846 8260B**
	84	**(75 - 111)**	**11**	**(0-30)**	**SW846 8260B**
o-Xylene	**98**	**(76 - 116)**			**SW846 8260B**
	87	**(76 - 116)**	**12**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**94**	**(73 - 110)**			**SW846 8260B**
	84	**(73 - 110)**	**11**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**95**	**(75 - 117)**			**SW846 8260B**
	86	**(75 - 117)**	**10**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	87	(12 - 182)			SW846 8260B
	83	(12 - 182)	4.9	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**92**	**(75 - 110)**			**SW846 8260B**
	83	**(75 - 110)**	**10**	**(0-30)**	**SW846 8260B**
Acrolein	113	(47 - 168)			SW846 8260B
	113	(47 - 168)	0.23	(0-30)	SW846 8260B
Acrylonitrile	89	(62 - 133)			SW846 8260B
	83	(62 - 133)	6.9	(0-30)	SW846 8260B
Vinyl acetate	114	(43 - 157)			SW846 8260B
	104	(43 - 157)	9.3	(0-30)	SW846 8260B
Bromobenzene	**97**	**(71 - 116)**			**SW846 8260B**
	88	**(71 - 116)**	**10**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	52	(17 - 128)			SW846 8260B
	58	(17 - 128)	11	(0-30)	SW846 8260B
Bromochloromethane	**89**	**(73 - 121)**			**SW846 8260B**
	78	**(73 - 121)**	**13**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**100**	**(56 - 127)**			**SW846 8260B**
	91	**(56 - 127)**	**8.7**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**100**	**(60 - 119)**			**SW846 8260B**
	93	**(60 - 119)**	**7.1**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**90**	**(79 - 116)**			**SW846 8260B**
	81	**(79 - 116)**	**10**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**104**	**(61 - 119)**			**SW846 8260B**
	96	**(61 - 119)**	**7.4**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**97**	**(69 - 117)**			**SW846 8260B**
	88	**(69 - 117)**	**10**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0J81E1-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130538-002 MG0J81E2-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**96**	**(71 - 116)**			**SW846 8260B**
	86	**(71 - 116)**	**10**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**90**	**(68 - 129)**			**SW846 8260B**
	80	**(68 - 129)**	**11**	**(0-30)**	**SW846 8260B**
Dibromomethane	**94**	**(77 - 121)**			**SW846 8260B**
	85	**(77 - 121)**	**9.8**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**94**	**(74 - 118)**			**SW846 8260B**
	87	**(74 - 118)**	**7.6**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	87	(38 - 127)			SW846 8260B
	84	(38 - 127)	3.9	(0-30)	SW846 8260B
1,1-Dichloropropene	**92**	**(80 - 114)**			**SW846 8260B**
	89	**(80 - 114)**	**4.0**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**88**	**(70 - 120)**			**SW846 8260B**
	79	**(70 - 120)**	**10**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	80	(27 - 132)			SW846 8260B
	74	(27 - 132)	8.0	(0-30)	SW846 8260B
Iodomethane	96	(66 - 144)			SW846 8260B
	86	(66 - 144)	12	(0-30)	SW846 8260B
Isopropyl ether	92	(73 - 118)			SW846 8260B
	81	(73 - 118)	12	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**91**	**(80 - 119)**			**SW846 8260B**
	82	**(80 - 119)**	**9.6**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**104**	**(64 - 122)**			**SW846 8260B**
	95	**(64 - 122)**	**8.5**	**(0-30)**	**SW846 8260B**
Naphthalene	96	(15 - 158)			SW846 8260B
	86	(15 - 158)	11	(0-30)	SW846 8260B
n-Propylbenzene	**102**	**(64 - 124)**			**SW846 8260B**
	94	**(64 - 124)**	**8.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**95**	**(74 - 135)**			**SW846 8260B**
	90	**(74 - 135)**	**6.2**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**93**	**(64 - 118)**			**SW846 8260B**
	82	**(64 - 118)**	**12**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	90	(45 - 129)			SW846 8260B
	83	(45 - 129)	7.9	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**98**	**(67 - 132)**			**SW846 8260B**
	93	**(67 - 132)**	**5.7**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**102**	**(67 - 124)**			**SW846 8260B**
	92	**(67 - 124)**	**10**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**93**	**(78 - 115)**			**SW846 8260B**
	84	**(78 - 115)**	**10**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**102**	**(63 - 121)**			**SW846 8260B**
	91	**(63 - 121)**	**11**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0J81E1-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130538-002 MG0J81E2-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**86**	**(51 - 110)**			**SW846 8260B**
	78	**(51 - 110)**	**10**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**95**	**(46 - 116)**			**SW846 8260B**
	89	**(46 - 116)**	**6.2**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**96**	**(75 - 116)**			**SW846 8260B**
	87	**(75 - 116)**	**10**	**(0-30)**	**SW846 8260B**
n-Hexane	98	(54 - 138)			SW846 8260B
	110	(54 - 138)	12	(0-30)	SW846 8260B
2-Hexanone	**97**	**(47 - 139)**			**SW846 8260B**
	93	**(47 - 139)**	**4.3**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**95**	**(68 - 116)**			**SW846 8260B**
	87	**(68 - 116)**	**8.3**	**(0-30)**	**SW846 8260B**
Methylene chloride	**83**	**(63 - 128)**			**SW846 8260B**
	74	**(63 - 128)**	**12**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**95**	**(56 - 131)**			**SW846 8260B**
	88	**(56 - 131)**	**7.3**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**92**	**(46 - 144)**			**SW846 8260B**
	84	**(46 - 144)**	**9.1**	**(0-30)**	**SW846 8260B**
Styrene	**95**	**(71 - 117)**			**SW846 8260B**
	85	**(71 - 117)**	**12**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**98**	**(63 - 122)**			**SW846 8260B**
	90	**(63 - 122)**	**9.0**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**94**	**(70 - 117)**			**SW846 8260B**
	89	**(70 - 117)**	**5.9**	**(0-30)**	**SW846 8260B**
Toluene	**95**	**(78 - 114)**			**SW846 8260B**
	86	**(78 - 114)**	**9.0**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	96	(38 - 138)			SW846 8260B
	85	(38 - 138)	11	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**90**	**(68 - 121)**			**SW846 8260B**
	85	**(68 - 121)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**95**	**(75 - 115)**			**SW846 8260B**
	87	**(75 - 115)**	**8.8**	**(0-30)**	**SW846 8260B**
Trichloroethene	**89**	**(66 - 120)**			**SW846 8260B**
	81	**(66 - 120)**	**9.4**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	91	(46 - 157)			SW846 8260B
	98	(46 - 157)	6.8	(0-30)	SW846 8260B
Vinyl chloride	**77**	**(49 - 130)**			**SW846 8260B**
	74	**(49 - 130)**	**3.6**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0J81E1-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130538-002 MG0J81E2-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**96**	**(76 - 116)**			**SW846 8260B**
	86	**(76 - 116)**	**11**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(75 - 121)
	82	(75 - 121)
1,2-Dichloroethane-d4	81	(63 - 129)
	86	(63 - 129)
Toluene-d8	93	(74 - 115)
	94	(74 - 115)
4-Bromofluorobenzene	94	(66 - 117)
	96	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0M81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130554-003 MG0M81AD-MSD
Date Sampled...: 04/12/11 12:55 **Date Received..:** 04/13/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1111268
Dilution Factor: 714.29

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	78	(33 - 145)			SW846 8260B
	80	(33 - 145)	2.0	(0-30)	SW846 8260B
Benzene	**78**	**(72 - 121)**			**SW846 8260B**
	84	**(72 - 121)**	**1.6**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**82**	**(67 - 120)**			**SW846 8260B**
	86	**(67 - 120)**	**5.7**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	83	(75 - 119)			SW846 8260B
	87	(75 - 119)	4.7	(0-30)	SW846 8260B
Bromoform	85	(32 - 128)			SW846 8260B
	88	(32 - 128)	4.2	(0-30)	SW846 8260B
Bromomethane	75	(10 - 186)			SW846 8260B
	77	(10 - 186)	3.5	(0-30)	SW846 8260B
2-Butanone	**87**	**(54 - 129)**			**SW846 8260B**
	94	**(54 - 129)**	**7.7**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**87**	**(57 - 147)**			**SW846 8260B**
	89	**(57 - 147)**	**2.8**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**89**	**(59 - 129)**			**SW846 8260B**
	93	**(59 - 129)**	**5.2**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**84**	**(80 - 110)**			**SW846 8260B**
	89	**(80 - 110)**	**5.8**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**85**	**(56 - 118)**			**SW846 8260B**
	91	**(56 - 118)**	**6.8**	**(0-30)**	**SW846 8260B**
Chloroethane	77	(21 - 165)			SW846 8260B
	81	(21 - 165)	5.0	(0-30)	SW846 8260B
Chloroform	**82**	**(76 - 118)**			**SW846 8260B**
	85	**(76 - 118)**	**3.4**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	105	(70 - 152)			SW846 8260B
	109	(70 - 152)	3.4	(0-30)	SW846 8260B
Methyl acetate	82	(47 - 130)			SW846 8260B
	86	(47 - 130)	4.3	(0-30)	SW846 8260B
Chloromethane	62	(33 - 132)			SW846 8260B
	64	(33 - 132)	4.1	(0-30)	SW846 8260B
Cyclohexane	96	(49 - 123)			SW846 8260B
	101	(49 - 123)	5.1	(0-30)	SW846 8260B
Methylcyclohexane	100	(49 - 127)			SW846 8260B
	104	(49 - 127)	3.8	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0M81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130554-003 MG0M81AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**95**	**(32 - 139)**			**SW846 8260B**
	96	**(32 - 139)**	**1.4**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**89**	**(74 - 113)**			**SW846 8260B**
	94	**(74 - 113)**	**5.5**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**86**	**(75 - 111)**			**SW846 8260B**
	89	**(75 - 111)**	**3.5**	**(0-30)**	**SW846 8260B**
o-Xylene	**88**	**(76 - 116)**			**SW846 8260B**
	94	**(76 - 116)**	**6.4**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**86**	**(73 - 110)**			**SW846 8260B**
	90	**(73 - 110)**	**4.7**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**86**	**(75 - 117)**			**SW846 8260B**
	92	**(75 - 117)**	**6.6**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	83	(10 - 150)			SW846 8260B
	89	(10 - 150)	6.6	(0-30)	SW846 8260B
Acetonitrile	88	(12 - 182)			SW846 8260B
	91	(12 - 182)	3.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**85**	**(75 - 110)**			**SW846 8260B**
	88	**(75 - 110)**	**4.0**	**(0-30)**	**SW846 8260B**
Acrolein	112	(47 - 168)			SW846 8260B
	109	(47 - 168)	2.8	(0-30)	SW846 8260B
Acrylonitrile	86	(62 - 133)			SW846 8260B
	90	(62 - 133)	4.4	(0-30)	SW846 8260B
Vinyl acetate	107	(43 - 157)			SW846 8260B
	119	(43 - 157)	10	(0-30)	SW846 8260B
Bromobenzene	**89**	**(71 - 116)**			**SW846 8260B**
	92	**(71 - 116)**	**4.1**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	56	(17 - 128)			SW846 8260B
	58	(17 - 128)	3.5	(0-30)	SW846 8260B
Bromochloromethane	**81**	**(73 - 121)**			**SW846 8260B**
	86	**(73 - 121)**	**5.8**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**94**	**(56 - 127)**			**SW846 8260B**
	99	**(56 - 127)**	**5.7**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**94**	**(60 - 119)**			**SW846 8260B**
	100	**(60 - 119)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**84**	**(79 - 116)**			**SW846 8260B**
	89	**(79 - 116)**	**5.2**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**96**	**(61 - 119)**			**SW846 8260B**
	112	**(61 - 119)**	**16**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**89**	**(69 - 117)**			**SW846 8260B**
	92	**(69 - 117)**	**4.1**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0M81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130554-003 MG0M81AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**88**	**(71 - 116)**			**SW846 8260B**
	92	**(71 - 116)**	**4.2**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**90**	**(68 - 129)**			**SW846 8260B**
	95	**(68 - 129)**	**5.3**	**(0-30)**	**SW846 8260B**
Dibromomethane	**87**	**(77 - 121)**			**SW846 8260B**
	91	**(77 - 121)**	**4.5**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**89**	**(74 - 118)**			**SW846 8260B**
	94	**(74 - 118)**	**5.5**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	83	(38 - 127)			SW846 8260B
	87	(38 - 127)	4.2	(0-30)	SW846 8260B
1,1-Dichloropropene	**88**	**(80 - 114)**			**SW846 8260B**
	92	**(80 - 114)**	**3.5**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**82**	**(70 - 120)**			**SW846 8260B**
	86	**(70 - 120)**	**4.4**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	84	(27 - 132)			SW846 8260B
	90	(27 - 132)	6.2	(0-30)	SW846 8260B
Iodomethane	89	(66 - 144)			SW846 8260B
	93	(66 - 144)	4.3	(0-30)	SW846 8260B
Isopropyl ether	84	(73 - 118)			SW846 8260B
	90	(73 - 118)	6.5	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**84**	**(80 - 119)**			**SW846 8260B**
	89	**(80 - 119)**	**5.1**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**98**	**(64 - 122)**			**SW846 8260B**
	102	**(64 - 122)**	**4.2**	**(0-30)**	**SW846 8260B**
Naphthalene	87	(15 - 158)			SW846 8260B
	93	(15 - 158)	6.4	(0-30)	SW846 8260B
n-Propylbenzene	**96**	**(64 - 124)**			**SW846 8260B**
	100	**(64 - 124)**	**3.9**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(74 - 135)**			**SW846 8260B**
	97	**(74 - 135)**	**6.4**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**84**	**(64 - 118)**			**SW846 8260B**
	89	**(64 - 118)**	**6.1**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	87	(45 - 129)			SW846 8260B
	92	(45 - 129)	5.5	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**94**	**(67 - 132)**			**SW846 8260B**
	99	**(67 - 132)**	**4.8**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**94**	**(67 - 124)**			**SW846 8260B**
	98	**(67 - 124)**	**4.7**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**85**	**(78 - 115)**			**SW846 8260B**
	89	**(78 - 115)**	**5.4**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**92**	**(63 - 121)**			**SW846 8260B**
	98	**(63 - 121)**	**5.4**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0M81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130554-003 MG0M81AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**83**	**(51 - 110)**			**SW846 8260B**
	86	**(51 - 110)**	**4.1**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**90**	**(46 - 116)**			**SW846 8260B**
	96	**(46 - 116)**	**6.7**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**86**	**(75 - 116)**			**SW846 8260B**
	92	**(75 - 116)**	**6.1**	**(0-30)**	**SW846 8260B**
n-Hexane	108	(54 - 138)			SW846 8260B
	111	(54 - 138)	3.1	(0-30)	SW846 8260B
2-Hexanone	**97**	**(47 - 139)**			**SW846 8260B**
	102	**(47 - 139)**	**5.3**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**88**	**(68 - 116)**			**SW846 8260B**
	94	**(68 - 116)**	**7.1**	**(0-30)**	**SW846 8260B**
Methylene chloride	**80**	**(63 - 128)**			**SW846 8260B**
	82	**(63 - 128)**	**3.4**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**92**	**(56 - 131)**			**SW846 8260B**
	96	**(56 - 131)**	**4.3**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**87**	**(46 - 144)**			**SW846 8260B**
	91	**(46 - 144)**	**5.2**	**(0-30)**	**SW846 8260B**
Styrene	**85**	**(71 - 117)**			**SW846 8260B**
	91	**(71 - 117)**	**6.7**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**92**	**(63 - 122)**			**SW846 8260B**
	96	**(63 - 122)**	**4.7**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**88**	**(70 - 117)**			**SW846 8260B**
	92	**(70 - 117)**	**4.9**	**(0-30)**	**SW846 8260B**
Toluene	**88**	**(78 - 114)**			**SW846 8260B**
	93	**(78 - 114)**	**5.5**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	87	(38 - 138)			SW846 8260B
	92	(38 - 138)	5.6	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**86**	**(68 - 121)**			**SW846 8260B**
	89	**(68 - 121)**	**3.3**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**91**	**(75 - 115)**			**SW846 8260B**
	94	**(75 - 115)**	**4.3**	**(0-30)**	**SW846 8260B**
Trichloroethene	**82**	**(66 - 120)**			**SW846 8260B**
	87	**(66 - 120)**	**5.8**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	97	(46 - 157)			SW846 8260B
	99	(46 - 157)	2.1	(0-30)	SW846 8260B
Vinyl chloride	**74**	**(49 - 130)**			**SW846 8260B**
	77	**(49 - 130)**	**3.9**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0M81AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D130554-003 MG0M81AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**87**	**(76 - 116)**			**SW846 8260B**
	93	**(76 - 116)**	**6.5**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(75 - 121)
	84	(75 - 121)
1,2-Dichloroethane-d4	85	(63 - 129)
	82	(63 - 129)
Toluene-d8	93	(74 - 115)
	95	(74 - 115)
4-Bromofluorobenzene	96	(66 - 117)
	96	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DK-MSD
Date Sampled...: 04/13/11 11:20 **Date Received..:** 04/14/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105233
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**63**	**(10 - 200)**			**SW846 8270C**
	71	**(10 - 200)**	**11**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**65**	**(33 - 110)**			**SW846 8270C**
	74	**(33 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**66**	**(10 - 200)**			**SW846 8270C**
	74	**(10 - 200)**	**12**	**(0-30)**	**SW846 8270C**
Anthracene	**71**	**(10 - 200)**			**SW846 8270C**
	78	**(10 - 200)**	**8.8**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**71**	**(10 - 200)**			**SW846 8270C**
	82	**(10 - 200)**	**14**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**80**	**(42 - 118)**			**SW846 8270C**
	83	**(42 - 118)**	**3.4**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**66**	**(10 - 200)**			**SW846 8270C**
	69	**(10 - 200)**	**3.2**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**72**	**(10 - 200)**			**SW846 8270C**
	78	**(10 - 200)**	**7.8**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**78**	**(10 - 200)**			**SW846 8270C**
	88	**(10 - 200)**	**12**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**72**	**(30 - 121)**			**SW846 8270C**
	87	**(30 - 121)**	**19**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**75**	**(10 - 200)**			**SW846 8270C**
	79	**(10 - 200)**	**4.7**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**63**	**(26 - 110)**			**SW846 8270C**
	65	**(26 - 110)**	**3.2**	**(0-30)**	**SW846 8270C**
Chrysene	**73**	**(10 - 200)**			**SW846 8270C**
	80	**(10 - 200)**	**9.0**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**78**	**(10 - 200)**			**SW846 8270C**
	86	**(10 - 200)**	**8.6**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**25**	**(10 - 182)**			**SW846 8270C**
	0.0 a,p	**(10 - 182)**	**200**	**(0-30)**	**SW846 8270C**
Fluoranthene	**78**	**(10 - 200)**			**SW846 8270C**
	83	**(10 - 200)**	**5.6**	**(0-30)**	**SW846 8270C**
Phenol	**67**	**(10 - 144)**			**SW846 8270C**
	74	**(10 - 144)**	**10**	**(0-30)**	**SW846 8270C**
Fluorene	**66**	**(10 - 187)**			**SW846 8270C**
	73	**(10 - 187)**	**9.3**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**74**	**(10 - 200)**			**SW846 8270C**
	80	**(10 - 200)**	**7.9**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**63**	**(32 - 110)**			**SW846 8270C**
	72	**(32 - 110)**	**14**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	68	(10 - 130)			SW846 8270C
	73	(10 - 130)	7.1	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**76**	**(32 - 117)**			**SW846 8270C**
	76	**(32 - 117)**	**0.55**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**75**	**(10 - 200)**			**SW846 8270C**
	86	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
Naphthalene	**62**	**(10 - 200)**			**SW846 8270C**
	69	**(10 - 200)**	**9.7**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**42**	**(10 - 125)**			**SW846 8270C**
	14 p	**(10 - 125)**	**102**	**(0-30)**	**SW846 8270C**
Phenanthrene	**73**	**(10 - 200)**			**SW846 8270C**
	75	**(10 - 200)**	**2.7**	**(0-30)**	**SW846 8270C**
Pyrene	**68**	**(10 - 200)**			**SW846 8270C**
	76	**(10 - 200)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**68**	**(36 - 110)**			**SW846 8270C**
	73	**(36 - 110)**	**6.3**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**67**	**(32 - 118)**			**SW846 8270C**
	85	**(32 - 118)**	**24**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**68**	**(25 - 124)**			**SW846 8270C**
	74	**(25 - 124)**	**9.0**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**79**	**(10 - 200)**			**SW846 8270C**
	85	**(10 - 200)**	**6.8**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**76**	**(44 - 120)**			**SW846 8270C**
	81	**(44 - 120)**	**5.4**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**77**	**(43 - 138)**			**SW846 8270C**
	87	**(43 - 138)**	**11**	**(0-30)**	**SW846 8270C**
Carbazole	**74**	**(10 - 162)**			**SW846 8270C**
	77	**(10 - 162)**	**4.4**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	45	(11 - 110)			SW846 8270C
	53	(11 - 110)	15	(0-30)	SW846 8270C
2-Chloronaphthalene	**66**	**(40 - 110)**			**SW846 8270C**
	73	**(40 - 110)**	**9.4**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**34 a**	**(47 - 116)**			**SW846 8270C**
	37 a	**(47 - 116)**	**9.0**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**68**	**(10 - 200)**			**SW846 8270C**
	77	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**86**	**(31 - 145)**			**SW846 8270C**
	88	**(31 - 145)**	**2.1**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**61**	**(29 - 110)**			**SW846 8270C**
	74	**(29 - 110)**	**20**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**59**	**(29 - 110)**			**SW846 8270C**
	71	**(29 - 110)**	**18**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	40	(10 - 110)			SW846 8270C
	59 p	(10 - 110)	38	(0-30)	SW846 8270C
2,4-Dichlorophenol	**61**	**(33 - 110)**			**SW846 8270C**
	61	**(33 - 110)**	**1.3**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**77**	**(48 - 118)**			**SW846 8270C**
	84	**(48 - 118)**	**9.3**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**63**	**(19 - 114)**			**SW846 8270C**
	63	**(19 - 114)**	**0.66**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**72**	**(47 - 116)**			**SW846 8270C**
	81	**(47 - 116)**	**12**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	46	(10 - 110)			SW846 8270C
	0.0 a,p	(10 - 110)	200	(0-30)	SW846 8270C
2,4-Dinitrophenol	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**76**	**(28 - 137)**			**SW846 8270C**
	85	**(28 - 137)**	**11**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**78**	**(10 - 182)**			**SW846 8270C**
	79	**(10 - 182)**	**2.0**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**81**	**(37 - 122)**			**SW846 8270C**
	81	**(37 - 122)**	**1.0**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**67**	**(30 - 110)**			**SW846 8270C**
	76	**(30 - 110)**	**12**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	28	(10 - 110)			SW846 8270C
	23	(10 - 110)	20	(0-30)	SW846 8270C
Hexachloroethane	**71**	**(13 - 110)**			**SW846 8270C**
	80	**(13 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Isophorone	**67**	**(32 - 129)**			**SW846 8270C**
	73	**(32 - 129)**	**8.6**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**73**	**(19 - 124)**			**SW846 8270C**
	77	**(19 - 124)**	**4.2**	**(0-30)**	**SW846 8270C**
4-Methylphenol	67	(27 - 116)			SW846 8270C
	75	(27 - 116)	10	(0-30)	SW846 8270C
2-Nitroaniline	**88**	**(31 - 141)**			**SW846 8270C**
	102	**(31 - 141)**	**14**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**69**	**(24 - 110)**			**SW846 8270C**
	83	**(24 - 110)**	**19**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**69**	**(23 - 124)**			**SW846 8270C**
	78	**(23 - 124)**	**12**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**75**	**(33 - 111)**			**SW846 8270C**
	81	**(33 - 111)**	**7.2**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**60**	**(17 - 110)**			**SW846 8270C**
	62	**(17 - 110)**	**3.2**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**73**	**(10 - 169)**			**SW846 8270C**
	79	**(10 - 169)**	**8.7**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**63**	**(32 - 112)**			**SW846 8270C**
	75	**(32 - 112)**	**18**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**48**	**(22 - 110)**			**SW846 8270C**
	46	**(22 - 110)**	**5.5**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 a	(10 - 200)			SW846 8270C
	0.0 a	(10 - 200)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	41	(10 - 110)			SW846 8270C
	41	(10 - 110)	0.47	(0-30)	SW846 8270C
Pyridine	47	(10 - 110)			SW846 8270C
	60	(10 - 110)	24	(0-30)	SW846 8270C
Atrazine	92	(50 - 130)			SW846 8270C
	92	(50 - 130)	0.54	(0-30)	SW846 8270C
Acetophenone	59	(50 - 130)			SW846 8270C
	68	(50 - 130)	15	(0-30)	SW846 8270C

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DJ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	51	(50 - 130)			SW846 8270C
	58	(50 - 130)	12	(0-30)	SW846 8270C
Caprolactam	46 a	(50 - 130)			SW846 8270C
	43 a	(50 - 130)	6.5	(0-30)	SW846 8270C
Aniline	42	(10 - 130)			SW846 8270C
	52	(10 - 130)	22	(0-30)	SW846 8270C
Benzyl alcohol	42	(10 - 130)			SW846 8270C
	55	(10 - 130)	28	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**66**	**(10 - 130)**			**SW846 8270C**
	79	**(10 - 130)**	**18**	**(0-30)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	39	(10 - 130)			SW846 8270C
	18 p	(10 - 130)	71	(0-30)	SW846 8270C
Benzaldehyde	78	(10 - 130)			SW846 8270C
	89	(10 - 130)	13	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(24 - 112)
	66	(24 - 112)
2-Fluorobiphenyl	52	(34 - 110)
	60	(34 - 110)
Terphenyl-d14	67	(41 - 119)
	72	(41 - 119)
Phenol-d5	58	(28 - 110)
	68	(28 - 110)
2-Fluorophenol	61	(26 - 110)
	69	(26 - 110)
2,4,6-Tribromophenol	50	(10 - 118)
	51	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0DQ1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D130527-007 MG0DQ1AR-MSD
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**71**	**(10 - 142)**			**SW846 8015A MOD**
	71	**(10 - 142)**	**0.01**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	83	(10 - 150)
	95	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0C61AF-MS **Matrix.....:** WG
MS Lot-Sample #: A1D130527-001 MG0C61AG-MSD
Date Sampled...: 04/12/11 11:03 **Date Received..:** 04/13/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1117139
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**102**	**(63 - 143)**			**SW846 8015A MOD**
	103	**(63 - 143)**	**1.3**	**(0-20)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	98	(10 - 150)
	103	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG0DH1AR-MS **Matrix.....:** SO
MS Lot-Sample #: A1D130527-004 MG0DH1AT-MSD
Date Sampled...: 04/12/11 10:02 **Date Received..:** 04/13/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109042
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**133 a**	**(70 - 130)**			**SW846 8015B**
	131 a	**(70 - 130)**	**0.51**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	43	(10 - 110)
	48	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D130527 **Work Order #...:** MG2RL1DF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D140628-015 MG2RL1DG-MSD
Date Sampled...: 04/13/11 11:20 **Date Received..:** 04/14/11
Prep Date.....: 04/15/11 **Analysis Date..:** 04/19/11
Prep Batch #...: 1105057
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**85**	**(10 - 199)**			**SW846 8082**
	85	**(10 - 199)**	**0.38**	**(0-30)**	**SW846 8082**
Aroclor 1260	**81**	**(10 - 199)**			**SW846 8082**
	83	**(10 - 199)**	**2.2**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	86	(10 - 196)
	83	(10 - 196)
Decachlorobiphenyl	80	(10 - 199)
	83	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D130527 **Matrix.....:** SOLID
Date Sampled...: 04/07/11 13:00 **Date Received..:** 04/08/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D080497-001 **Prep Batch #...:** 1104032						**% Moisture.....:** 12	
Arsenic	81	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1CQ
	82	(75 - 125)	1.4	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1CR
		Dilution Factor: 1					
Lead	80	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1CX
	82	(75 - 125)	1.8	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1C0
		Dilution Factor: 1					
Barium	84	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1C9
	89	(75 - 125)	5.0	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1DA
		Dilution Factor: 1					
Selenium	82	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1C1
	83	(75 - 125)	1.4	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1C2
		Dilution Factor: 1					
Cadmium	81	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1DQ
	81	(75 - 125)	0.02	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1DR
		Dilution Factor: 1					
Chromium	90	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1DU
	94	(75 - 125)	2.8	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1DV
		Dilution Factor: 1					
Silver	96	(75 - 125)			SW846 6010B	04/14-04/15/11	MGQWQ1DX
	98	(75 - 125)	1.5	(0-20)	SW846 6010B	04/14-04/15/11	MGQWQ1D0
		Dilution Factor: 1					
Mercury	94	(11 - 192)			SW846 7471A	04/14-04/20/11	MGQWQ1DJ
	102	(11 - 192)	7.5	(0-20)	SW846 7471A	04/14-04/20/11	MGQWQ1DK
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D130527 **Work Order #...:** MGXXQ-SMP **Matrix.....:** SOLID
MGXXQ-DUP
Date Sampled...: 04/12/11 08:45 **Date Received..:** 04/13/11
% Moisture.....: 19

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D130455-006		
	80.7	80.7	%	0.062	(0-20)	MCAWW 160.3 MOD	04/14-04/15/11	1104149

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D130527 **Work Order #...:** MG0DX-SMP **Matrix.....:** SO
MG0DX-DUP
Date Sampled...: 04/12/11 14:41 **Date Received..:** 04/13/11
% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D130527-008		
	88.6	88.4	%	0.14	(0-20)	MCAWW 160.3 MOD	04/14-04/15/11	1104149

Dilution Factor: 1

Chain of Custody Record

TestAmerica
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TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: TetraTech	Client Project Manager: Guy Monfort	Site Contact: Vicky Farmer	Lab Contact: Denise Pohl
Address: 250 West Court St #200W	Telephone: 513-564-8350	Telephone: 513-348-2080	Telephone:
City/State/Zip: Cincinnati OH 45202	Email: guy.monfort@tetratech.com	Analysis Turnaround Time (in BUSINESS days)	Analyses
Phone: 513-241-0149		TAT if different from below _____	
Project Name: Mansfield Stamping Plant	Method of Shipment/Carrier: fedex	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	
Project Number: 103517404.002	Shipping/Tracking No:		
PO #			

COC No: 019595
1 of ____ COCs

For lab use only
Walk-in client
Lab sampling
Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composited C/G Grab G	VOCs	PAH	TPH DRO	PCBs	Metals	TPH 8015					Sample Specific Notes / Special Instructions:
GW47-OLD-0411	4/12/11	1103		X						X				X	N	G	X	X		X		X					
SB31-UST-3032-0411		1336				X								X			X		X								
SB31-UST-2730-0411		1318				X											X		X								
SB46-OLD-1215-0411		1002				X											X	X	X	X	X	X					
SB32-UST-1720-0411		1133				X											X		X								
SB47-OLD-1720-0411		0901				X											X	X	X	X	X	X					
SBDUP 4/2		—				X												X	X	X	X	V					
SB61-CSA-2225-0411		1441				X												X	X	X	X	X					
Trip Blank				X						X							X										
														X													

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: V Farmer	Company: TT	Date/Time: 4/12 @ 1646	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TEST AMERICA	Date/Time: 13 APR 2011 0920

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 410130522
North Canton Facility

Client TETRA TECH Project MANSFIELD By: Matt Lyon
Cooler Received on 13 APR 2011 Opened on 13 APR 2011 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # A709 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity_____ Quantity Unsalvageable_____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other PLASTIC BAG
6. Cooler temperature upon receipt 4.2 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐ _____
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM _____ Date _____ by _____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s)_____ were received after the recommended holding time had expired.
Sample(s)_____ were received in a broken container.
Sample(s)_____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TestAmerica
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END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 103S17104

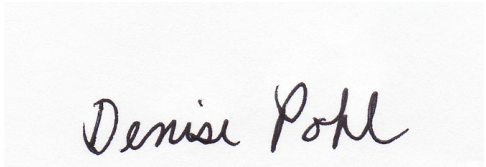
MANSFIELD PH 2

Lot #: A1D150470

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/11/2011 2:45 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 11, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1D150470

The following report contains the analytical results for twenty-seven solid samples, four water samples and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD PH 2 Site, project number 103S17104. The samples were received April 15, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnapthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The coolers were received at temperatures ranging from 1.9 to 2.9° C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SD06-LAN-0411 and SD12-LAN-0411 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 1116383 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

Sample(s) LANDFILL BORING 2, SB91-NEW-2527-0411, SB92-NEW-2530-0411, SB93-NEW-2730-0411, SD04-SSA-0411, SD05-SSA-0411, SD07-LAN-0411 and SD11-LAN-0411 were reanalyzed at a dilution due to internal standard recoveries outside of acceptance limits, per Ohio VAP requirements. Only compounds associated with internal standards that met criteria are reported from each analysis.

CASE NARRATIVE (continued)

GC/MS VOLATILES (cont)

Batch 1118255 had recoveries out high in the LCS. Since there were no reportable target analytes in any of the associated samples, no corrective action was necessary.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch 1118255. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

An MS/MSD was analyzed in batch 1118325 but could not be reported because the associated sample was VAP with internal standard failures.

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SB66-CSA-04-0411 and SD08-LAN-0411 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The matrix spike/matrix spike duplicate(s) for batch(es) 1105334 and 1108058 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

No corrective action was taken for the 4-Chlorophenyl phenyl ether failure for the LCS associated with batches1105331, 1105332, 1105334 and 1108046 due to questionable analyte concentration in calibration. If a hit for this analyte was detected, further corrective action would be required.

Samples SB67-CSA-04-0411, SB69-CSA-02-0411, SB93-NEW-2730-0411, SB63-CSA-02-0411, SB65-CSA-02-0411, SB63-CSA-04-0411, SB66-CSA-02-0411, SB62-CSA-04-0411, and SB62-CSA-04-0411 had elevated reporting limits due to matrix interferences.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch 1108046.

CASE NARRATIVE (continued)

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for SB63-CSA-04-0411 had RPD's outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The MS for sample SB63-CSA-04-0411in batch 1119101 appears to have had a bad purge. Because it was not client specific, corrective action was not taken.

The opening CCV failed high for samples DUP0413, SB63-CSA-02-0411, SB65-CSA-02-0411 and B66-CSA-02-0411. Since the samples were non-detect, no corrective action is required.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The closing CCV failed high for samples SB64-CSA-04-0411 and DUP0413 for Diesel. Since the samples were non-detect (or J-flag values), no corrective action was needed.

There was no client requested matrix spike / matrix spike duplicate (MS/MSD) in batch 1108051.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(es) 1111027 due to the sample concentration reading greater than four times the spike amount. See the Matrix Spike Report for the affected analytes which will be flagged with "NC, MSB".

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB66-CSA-04-0411 04/13/11 13:25 001				
Arsenic	14.9	1.0	mg/kg	SW846 6010B
Lead	15.0	0.31	mg/kg	SW846 6010B
Barium	64.8 J	20.8	mg/kg	SW846 6010B
Chromium	14.1	1.0	mg/kg	SW846 6010B
1-Methylnaphthalene	65	8.1	ug/kg	SW846 8270C
2-Methylnaphthalene	100	8.1	ug/kg	SW846 8270C
Naphthalene	63	8.1	ug/kg	SW846 8270C
Phenanthrene	30	8.1	ug/kg	SW846 8270C
Percent Solids	82.6	10.0	%	MCAWW 160.3 MOD
SB92-NEW-2530-0411 04/13/11 10:14 002				
C20-C34	41	19	mg/kg	SW846 8015B
C10-C20	28	19	mg/kg	SW846 8015B
Arsenic	12.0	1.0	mg/kg	SW846 6010B
Lead	9.9	0.31	mg/kg	SW846 6010B
Barium	33.7 J	20.5	mg/kg	SW846 6010B
Chromium	16.7	1.0	mg/kg	SW846 6010B
Benzo(a)pyrene	9.9	7.4	ug/kg	SW846 8270C
Benzo(b)fluoranthene	15	7.4	ug/kg	SW846 8270C
Benzo(ghi)perylene	39	7.4	ug/kg	SW846 8270C
Chrysene	16	7.4	ug/kg	SW846 8270C
Fluoranthene	13	7.4	ug/kg	SW846 8270C
1-Methylnaphthalene	13	7.4	ug/kg	SW846 8270C
2-Methylnaphthalene	20	7.4	ug/kg	SW846 8270C
Phenanthrene	19	7.4	ug/kg	SW846 8270C
Pyrene	20	7.4	ug/kg	SW846 8270C
Acetone	32 B	22	ug/kg	SW846 8260A
Benzene	0.56 J	5.6	ug/kg	SW846 8260A
Carbon disulfide	3.1 J	5.6	ug/kg	SW846 8260A
Methylene chloride	13 B	5.6	ug/kg	SW846 8260A
Percent Solids	89.8	10.0	%	MCAWW 160.3 MOD
SB67-CSA-04-0411 04/13/11 13:40 003				
C20-C34	170	20	mg/kg	SW846 8015B
C10-C20	78	20	mg/kg	SW846 8015B
Mercury	0.036 B	0.12	mg/kg	SW846 7471A
Arsenic	21.3	1.1	mg/kg	SW846 6010B
Lead	18.3	0.33	mg/kg	SW846 6010B
Barium	58.4 J	22.3	mg/kg	SW846 6010B
Chromium	14.7	1.1	mg/kg	SW846 6010B
Benzo(a)anthracene	40	39	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB67-CSA-04-0411 04/13/11 13:40 003				
Chrysene	39	39	ug/kg	SW846 8270C
Fluoranthene	52	39	ug/kg	SW846 8270C
1-Methylnaphthalene	550	39	ug/kg	SW846 8270C
2-Methylnaphthalene	790	39	ug/kg	SW846 8270C
Naphthalene	430	39	ug/kg	SW846 8270C
Phenanthrene	190	39	ug/kg	SW846 8270C
Pyrene	77	39	ug/kg	SW846 8270C
Percent Solids	85.2	10.0	%	MCAWW 160.3 MOD
SB69-CSA-02-0411 04/13/11 13:31 004				
C20-C34	70	20	mg/kg	SW846 8015B
C10-C20	37	20	mg/kg	SW846 8015B
Mercury	0.022 B	0.11	mg/kg	SW846 7471A
Arsenic	16.6	1.1	mg/kg	SW846 6010B
Lead	15.6	0.32	mg/kg	SW846 6010B
Barium	55.3 J	21.1	mg/kg	SW846 6010B
Chromium	12.7	1.1	mg/kg	SW846 6010B
Anthracene	210	80	ug/kg	SW846 8270C
Benzo(a)anthracene	170	80	ug/kg	SW846 8270C
Benzo(a)pyrene	130	80	ug/kg	SW846 8270C
Benzo(b)fluoranthene	100	80	ug/kg	SW846 8270C
Chrysene	180	80	ug/kg	SW846 8270C
Fluoranthene	190	80	ug/kg	SW846 8270C
1-Methylnaphthalene	2400	80	ug/kg	SW846 8270C
2-Methylnaphthalene	3800	80	ug/kg	SW846 8270C
Naphthalene	2200	80	ug/kg	SW846 8270C
Phenanthrene	960	80	ug/kg	SW846 8270C
Pyrene	200	80	ug/kg	SW846 8270C
Percent Solids	83.5	10.0	%	MCAWW 160.3 MOD
SB68-CSA-04-0411 04/13/11 13:36 005				
C20-C34	35	19	mg/kg	SW846 8015B
C10-C20	14 J	19	mg/kg	SW846 8015B
Mercury	0.041 B	0.12	mg/kg	SW846 7471A
Arsenic	12.0	1.2	mg/kg	SW846 6010B
Lead	22.5	0.35	mg/kg	SW846 6010B
Barium	75.6 J	23.2	mg/kg	SW846 6010B
Chromium	11.5	1.2	mg/kg	SW846 6010B
Benzo(a)anthracene	7.9	7.7	ug/kg	SW846 8270C
Chrysene	11	7.7	ug/kg	SW846 8270C
Fluoranthene	11	7.7	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB68-CSA-04-0411 04/13/11 13:36 005				
1-Methylnaphthalene	120	7.7	ug/kg	SW846 8270C
2-Methylnaphthalene	200	7.7	ug/kg	SW846 8270C
Naphthalene	120	7.7	ug/kg	SW846 8270C
Phenanthrene	47	7.7	ug/kg	SW846 8270C
Pyrene	14	7.7	ug/kg	SW846 8270C
Percent Solids	86.2	10.0	%	MCAWW 160.3 MOD
SB93-NEW-2730-0411 04/13/11 11:38 006				
C20-C34	82	19	mg/kg	SW846 8015B
C10-C20	79	19	mg/kg	SW846 8015B
Arsenic	12.4	0.84	mg/kg	SW846 6010B
Lead	9.8	0.25	mg/kg	SW846 6010B
Barium	56.9 J	16.8	mg/kg	SW846 6010B
Cadmium	0.25 B	0.42	mg/kg	SW846 6010B
Chromium	10.2	0.84	mg/kg	SW846 6010B
1-Methylnaphthalene	50	19	ug/kg	SW846 8270C
2-Methylnaphthalene	77	19	ug/kg	SW846 8270C
Naphthalene	26	19	ug/kg	SW846 8270C
Phenanthrene	43	19	ug/kg	SW846 8270C
Acetone	25 B	22	ug/kg	SW846 8260A
Benzene	2.0 J	5.6	ug/kg	SW846 8260A
Carbon disulfide	4.3 J	5.6	ug/kg	SW846 8260A
Methylene chloride	8.9 B	5.6	ug/kg	SW846 8260A
Percent Solids	89.1	10.0	%	MCAWW 160.3 MOD
SB69-CSA-04-0411 04/13/11 13:31 007				
C20-C34	56	20	mg/kg	SW846 8015B
C10-C20	19 J	20	mg/kg	SW846 8015B
Mercury	0.028 B	0.11	mg/kg	SW846 7471A
Arsenic	7.8	0.81	mg/kg	SW846 6010B
Lead	15.7	0.24	mg/kg	SW846 6010B
Barium	59.5 J	16.2	mg/kg	SW846 6010B
Chromium	11.3	0.81	mg/kg	SW846 6010B
Benzo(a)anthracene	7.6 J	8.0	ug/kg	SW846 8270C
Benzo(b)fluoranthene	12	8.0	ug/kg	SW846 8270C
Chrysene	11	8.0	ug/kg	SW846 8270C
Fluoranthene	16	8.0	ug/kg	SW846 8270C
1-Methylnaphthalene	54	8.0	ug/kg	SW846 8270C
2-Methylnaphthalene	81	8.0	ug/kg	SW846 8270C
Naphthalene	52	8.0	ug/kg	SW846 8270C
Phenanthrene	26	8.0	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB69-CSA-04-0411 04/13/11 13:31 007				
Pyrene	14	8.0	ug/kg	SW846 8270C
Percent Solids	83.8	10.0	%	MCAWW 160.3 MOD
SB91-NEW-2527-0411 04/13/11 09:08 008				
C20-C34	34	19	mg/kg	SW846 8015B
C10-C20	27	19	mg/kg	SW846 8015B
Arsenic	13.0	0.96	mg/kg	SW846 6010B
Lead	11.3	0.29	mg/kg	SW846 6010B
Barium	42.1 J	19.2	mg/kg	SW846 6010B
Chromium	12.9	0.96	mg/kg	SW846 6010B
Benzo(a)pyrene	7.6	7.6	ug/kg	SW846 8270C
Benzo(b)fluoranthene	9.9	7.6	ug/kg	SW846 8270C
Benzo(ghi)perylene	34	7.6	ug/kg	SW846 8270C
Chrysene	12	7.6	ug/kg	SW846 8270C
Fluoranthene	10	7.6	ug/kg	SW846 8270C
Fluorene	9.6	7.6	ug/kg	SW846 8270C
1-Methylnaphthalene	27	7.6	ug/kg	SW846 8270C
2-Methylnaphthalene	23	7.6	ug/kg	SW846 8270C
Phenanthrene	30	7.6	ug/kg	SW846 8270C
Pyrene	18	7.6	ug/kg	SW846 8270C
Acetone	18 J,B	23	ug/kg	SW846 8260A
Bromomethane	2.8 J	11	ug/kg	SW846 8260A
2-Butanone	2.6 J	23	ug/kg	SW846 8260A
Carbon disulfide	2.3 J	5.7	ug/kg	SW846 8260A
Methylene chloride	4.8 J,B	5.7	ug/kg	SW846 8260A
Toluene	0.45 J	5.7	ug/kg	SW846 8260A
Percent Solids	87.3	10.0	%	MCAWW 160.3 MOD
SB65-CSA-04-0411 04/13/11 13:21 009				
C20-C34	240	20	mg/kg	SW846 8015B
C10-C20	130	20	mg/kg	SW846 8015B
Mercury	0.035 B	0.11	mg/kg	SW846 7471A
Arsenic	24.7	1.1	mg/kg	SW846 6010B
Lead	19.5	0.33	mg/kg	SW846 6010B
Selenium	0.59	0.56	mg/kg	SW846 6010B
Barium	81.7 J	22.2	mg/kg	SW846 6010B
Chromium	15.8	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	69	8.0	ug/kg	SW846 8270C
2-Methylnaphthalene	110	8.0	ug/kg	SW846 8270C
Naphthalene	69	8.0	ug/kg	SW846 8270C
Phenanthrene	28	8.0	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB65-CSA-04-0411 04/13/11 13:21 009				
Pyrene	8.2	8.0	ug/kg	SW846 8270C
Percent Solids	83.6	10.0	%	MCAWW 160.3 MOD
SB64-CSA-04-0411 04/13/11 13:16 010				
Mercury	0.063 B	0.096	mg/kg	SW846 7471A
Arsenic	15.8	0.90	mg/kg	SW846 6010B
Lead	12.3	0.27	mg/kg	SW846 6010B
Selenium	0.67	0.45	mg/kg	SW846 6010B
Barium	72.3 J	18.1	mg/kg	SW846 6010B
Chromium	15.9	0.90	mg/kg	SW846 6010B
1-Methylnaphthalene	19	7.7	ug/kg	SW846 8270C
2-Methylnaphthalene	26	7.7	ug/kg	SW846 8270C
Naphthalene	16	7.7	ug/kg	SW846 8270C
Phenanthrene	7.9	7.7	ug/kg	SW846 8270C
Percent Solids	86.3	10.0	%	MCAWW 160.3 MOD
DUP0413 04/13/11 011				
Mercury	0.038 B	0.11	mg/kg	SW846 7471A
Arsenic	18.4	1.1	mg/kg	SW846 6010B
Lead	20.8	0.34	mg/kg	SW846 6010B
Barium	67.6 J	22.5	mg/kg	SW846 6010B
Chromium	15.7	1.1	mg/kg	SW846 6010B
1-Methylnaphthalene	38	8.1	ug/kg	SW846 8270C
2-Methylnaphthalene	63	8.1	ug/kg	SW846 8270C
Naphthalene	38	8.1	ug/kg	SW846 8270C
Phenanthrene	16	8.1	ug/kg	SW846 8270C
Percent Solids	81.9	10.0	%	MCAWW 160.3 MOD
SB63-CSA-02-0411 04/13/11 13:10 012				
C20-C34	170	20	mg/kg	SW846 8015B
C10-C20	90	20	mg/kg	SW846 8015B
Mercury	0.022 B	0.094	mg/kg	SW846 7471A
Arsenic	19.2	1.1	mg/kg	SW846 6010B
Lead	16.6	0.33	mg/kg	SW846 6010B
Barium	90.8 J	22.0	mg/kg	SW846 6010B
Cadmium	0.31 B	0.55	mg/kg	SW846 6010B
Chromium	12.7	1.1	mg/kg	SW846 6010B
Acenaphthene	36	31	ug/kg	SW846 8270C
Anthracene	84	31	ug/kg	SW846 8270C
Benzo(a)anthracene	120	31	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB63-CSA-02-0411 04/13/11 13:10 012				
Benzo(a)pyrene	82	31	ug/kg	SW846 8270C
Benzo(b)fluoranthene	110	31	ug/kg	SW846 8270C
Benzo(ghi)perylene	70	31	ug/kg	SW846 8270C
Benzo(k)fluoranthene	55	31	ug/kg	SW846 8270C
Chrysene	140	31	ug/kg	SW846 8270C
Fluoranthene	230	31	ug/kg	SW846 8270C
Fluorene	40	31	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	44	31	ug/kg	SW846 8270C
1-Methylnaphthalene	1000	31	ug/kg	SW846 8270C
2-Methylnaphthalene	1500	31	ug/kg	SW846 8270C
Naphthalene	790	31	ug/kg	SW846 8270C
Phenanthrene	480	31	ug/kg	SW846 8270C
Pyrene	200	31	ug/kg	SW846 8270C
Percent Solids	85.3	10.0	%	MCAWW 160.3 MOD
SB65-CSA-02-0411 04/13/11 13:21 013				
C20-C34	130	20	mg/kg	SW846 8015B
C10-C20	68	20	mg/kg	SW846 8015B
Mercury	0.036 B	0.096	mg/kg	SW846 7471A
Arsenic	16.9	0.83	mg/kg	SW846 6010B
Lead	21.6	0.25	mg/kg	SW846 6010B
Barium	69.2 J	16.5	mg/kg	SW846 6010B
Cadmium	0.30 B	0.41	mg/kg	SW846 6010B
Chromium	10.8	0.83	mg/kg	SW846 6010B
Acenaphthene	25	20	ug/kg	SW846 8270C
Anthracene	55	20	ug/kg	SW846 8270C
Benzo(a)anthracene	86	20	ug/kg	SW846 8270C
Benzo(a)pyrene	74	20	ug/kg	SW846 8270C
Benzo(b)fluoranthene	75	20	ug/kg	SW846 8270C
Benzo(ghi)perylene	61	20	ug/kg	SW846 8270C
Benzo(k)fluoranthene	47	20	ug/kg	SW846 8270C
Chrysene	94	20	ug/kg	SW846 8270C
Fluoranthene	130	20	ug/kg	SW846 8270C
Fluorene	27	20	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	32	20	ug/kg	SW846 8270C
1-Methylnaphthalene	740	20	ug/kg	SW846 8270C
2-Methylnaphthalene	1200	20	ug/kg	SW846 8270C
Naphthalene	630	20	ug/kg	SW846 8270C
Phenanthrene	340	20	ug/kg	SW846 8270C
Pyrene	130	20	ug/kg	SW846 8270C
Percent Solids	84.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB63-CSA-04-0411 04/13/11 13:10 014				
C20-C34	130	20	mg/kg	SW846 8015B
C10-C20	59	20	mg/kg	SW846 8015B
Mercury	0.025 B	0.11	mg/kg	SW846 7471A
Arsenic	27.6	1.1	mg/kg	SW846 6010B
Lead	25.7	0.33	mg/kg	SW846 6010B
Barium	122 J	21.7	mg/kg	SW846 6010B
Cadmium	0.27 B	0.54	mg/kg	SW846 6010B
Chromium	10.5	1.1	mg/kg	SW846 6010B
Anthracene	110	40	ug/kg	SW846 8270C
Benzo(a)anthracene	150	40	ug/kg	SW846 8270C
Benzo(a)pyrene	110	40	ug/kg	SW846 8270C
Benzo(b)fluoranthene	140	40	ug/kg	SW846 8270C
Benzo(ghi)perylene	88	40	ug/kg	SW846 8270C
Benzo(k)fluoranthene	69	40	ug/kg	SW846 8270C
Chrysene	180	40	ug/kg	SW846 8270C
Fluoranthene	290	40	ug/kg	SW846 8270C
Fluorene	41	40	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	59	40	ug/kg	SW846 8270C
1-Methylnaphthalene	900	40	ug/kg	SW846 8270C
2-Methylnaphthalene	1500	40	ug/kg	SW846 8270C
Naphthalene	920	40	ug/kg	SW846 8270C
Phenanthrene	490	40	ug/kg	SW846 8270C
Pyrene	270	40	ug/kg	SW846 8270C
Percent Solids	83.8	10.0	%	MCAWW 160.3 MOD
SB66-CSA-02-0411 04/13/11 13:25 015				
C20-C34	55	20	mg/kg	SW846 8015B
C10-C20	21	20	mg/kg	SW846 8015B
Mercury	0.044 B	0.12	mg/kg	SW846 7471A
Arsenic	9.6	0.97	mg/kg	SW846 6010B
Lead	17.4	0.29	mg/kg	SW846 6010B
Barium	69.3 J	19.4	mg/kg	SW846 6010B
Chromium	12.3	0.97	mg/kg	SW846 6010B
Anthracene	570	41	ug/kg	SW846 8270C
Benzo(a)anthracene	72	41	ug/kg	SW846 8270C
Benzo(a)pyrene	50	41	ug/kg	SW846 8270C
Benzo(b)fluoranthene	45	41	ug/kg	SW846 8270C
Benzo(ghi)perylene	82	41	ug/kg	SW846 8270C
Chrysene	92	41	ug/kg	SW846 8270C
Fluoranthene	91	41	ug/kg	SW846 8270C
Fluorene	53	41	ug/kg	SW846 8270C
1-Methylnaphthalene	1800	41	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB66-CSA-02-0411 04/13/11 13:25 015				
2-Methylnaphthalene	2600	41	ug/kg	SW846 8270C
Naphthalene	1400	41	ug/kg	SW846 8270C
Phenanthrene	580	41	ug/kg	SW846 8270C
Pyrene	130	41	ug/kg	SW846 8270C
Percent Solids	82.3	10.0	%	MCAWW 160.3 MOD
SB62-CSA-04-0411 04/13/11 13:04 016				
C20-C34	140	20	mg/kg	SW846 8015B
C10-C20	72	20	mg/kg	SW846 8015B
Mercury	0.030 B	0.093	mg/kg	SW846 7471A
Arsenic	16.9	1.1	mg/kg	SW846 6010B
Lead	18.4	0.33	mg/kg	SW846 6010B
Barium	64.9 J	21.8	mg/kg	SW846 6010B
Cadmium	0.18 B	0.55	mg/kg	SW846 6010B
Chromium	12.1	1.1	mg/kg	SW846 6010B
Acenaphthene	56	39	ug/kg	SW846 8270C
Anthracene	160	39	ug/kg	SW846 8270C
Benzo(a)anthracene	240	39	ug/kg	SW846 8270C
Benzo(a)pyrene	190	39	ug/kg	SW846 8270C
Benzo(b)fluoranthene	260	39	ug/kg	SW846 8270C
Benzo(ghi)perylene	150	39	ug/kg	SW846 8270C
Benzo(k)fluoranthene	110	39	ug/kg	SW846 8270C
Chrysene	280	39	ug/kg	SW846 8270C
Fluoranthene	520	39	ug/kg	SW846 8270C
Fluorene	66	39	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	95	39	ug/kg	SW846 8270C
1-Methylnaphthalene	770	39	ug/kg	SW846 8270C
2-Methylnaphthalene	1200	39	ug/kg	SW846 8270C
Naphthalene	620	39	ug/kg	SW846 8270C
Phenanthrene	690	39	ug/kg	SW846 8270C
Pyrene	410	39	ug/kg	SW846 8270C
Percent Solids	85.2	10.0	%	MCAWW 160.3 MOD
SB68-CSA-02-0411 04/13/11 13:36 017				
C20-C34	29	20	mg/kg	SW846 8015B
Mercury	0.033 B	0.11	mg/kg	SW846 7471A
Arsenic	11.1	0.96	mg/kg	SW846 6010B
Lead	15.2	0.29	mg/kg	SW846 6010B
Barium	70.1 J	19.1	mg/kg	SW846 6010B
Chromium	11.9	0.96	mg/kg	SW846 6010B
Chrysene	9.6	7.9	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SB68-CSA-02-0411 04/13/11 13:36 017				
1-Methylnaphthalene	40	7.9	ug/kg	SW846 8270C
2-Methylnaphthalene	60	7.9	ug/kg	SW846 8270C
Naphthalene	35	7.9	ug/kg	SW846 8270C
Phenanthrene	22	7.9	ug/kg	SW846 8270C
Percent Solids	84.7	10.0	%	MCAWW 160.3 MOD
SB62-CSA-04-0411 04/13/11 13:04 018				
C20-C34	170	20	mg/kg	SW846 8015B
C10-C20	150	20	mg/kg	SW846 8015B
Mercury	0.040 B	0.11	mg/kg	SW846 7471A
Arsenic	15.9	1.2	mg/kg	SW846 6010B
Lead	13.7	0.35	mg/kg	SW846 6010B
Barium	67.5 J	23.6	mg/kg	SW846 6010B
Cadmium	0.14 B	0.59	mg/kg	SW846 6010B
Chromium	12.0	1.2	mg/kg	SW846 6010B
Anthracene	42	31	ug/kg	SW846 8270C
Benzo(a)anthracene	87	31	ug/kg	SW846 8270C
Benzo(a)pyrene	72	31	ug/kg	SW846 8270C
Benzo(b)fluoranthene	40	31	ug/kg	SW846 8270C
Benzo(ghi)perylene	59	31	ug/kg	SW846 8270C
Benzo(k)fluoranthene	66	31	ug/kg	SW846 8270C
Chrysene	110	31	ug/kg	SW846 8270C
Fluoranthene	130	31	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	32	31	ug/kg	SW846 8270C
1-Methylnaphthalene	970	31	ug/kg	SW846 8270C
2-Methylnaphthalene	1500	31	ug/kg	SW846 8270C
Naphthalene	820	31	ug/kg	SW846 8270C
Phenanthrene	410	31	ug/kg	SW846 8270C
Pyrene	140	31	ug/kg	SW846 8270C
Percent Solids	84.8	10.0	%	MCAWW 160.3 MOD
LANDFILL BORING 2 04/13/11 14:58 019				
Arsenic	15.1	1.0	mg/kg	SW846 6010B
Lead	14.9	0.31	mg/kg	SW846 6010B
Selenium	0.55	0.52	mg/kg	SW846 6010B
Barium	60.0 J	20.7	mg/kg	SW846 6010B
Cadmium	0.29 B	0.52	mg/kg	SW846 6010B
Chromium	13.6	1.0	mg/kg	SW846 6010B
Anthracene	10	7.8	ug/kg	SW846 8270C
Benzo(a)anthracene	37	7.8	ug/kg	SW846 8270C
Benzo(a)pyrene	28	7.8	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
LANDFILL BORING 2 04/13/11 14:58 019				
Benzo(b)fluoranthene	45	7.8	ug/kg	SW846 8270C
Benzo(ghi)perylene	24	7.8	ug/kg	SW846 8270C
Benzo(k)fluoranthene	20	7.8	ug/kg	SW846 8270C
Chrysene	45	7.8	ug/kg	SW846 8270C
Fluoranthene	89	7.8	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	16	7.8	ug/kg	SW846 8270C
Phenanthrene	53	7.8	ug/kg	SW846 8270C
Pyrene	65	7.8	ug/kg	SW846 8270C
Acetone	10 J,B	23	ug/kg	SW846 8260A
Carbon disulfide	0.89 J	5.8	ug/kg	SW846 8260A
Methylene chloride	9.8 B	5.8	ug/kg	SW846 8260A
Percent Solids	85.9	10.0	%	MCAWW 160.3 MOD
GW61-CSA-0411 04/13/11 12:50 020				
C20-C34	370 J	500	ug/L	SW846 8015B
Gasoline Range Organics (C6-C12)	50 J	100	ug/L	SW846 8015A MOD
SD04-SSA-0411 04/14/11 10:40 021				
Acenaphthene	2800	450	ug/kg	SW846 8270C
Anthracene	7000	450	ug/kg	SW846 8270C
Benzo(a)anthracene	18000	450	ug/kg	SW846 8270C
Benzo(a)pyrene	17000	450	ug/kg	SW846 8270C
Benzo(b)fluoranthene	21000	450	ug/kg	SW846 8270C
Benzo(ghi)perylene	11000	450	ug/kg	SW846 8270C
Benzo(k)fluoranthene	12000	450	ug/kg	SW846 8270C
Chrysene	24000	450	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	2700	450	ug/kg	SW846 8270C
Fluoranthene	61000	450	ug/kg	SW846 8270C
Fluorene	2700	450	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	9800	450	ug/kg	SW846 8270C
2-Methylnaphthalene	670	450	ug/kg	SW846 8270C
Naphthalene	1200	450	ug/kg	SW846 8270C
Phenanthrene	35000	450	ug/kg	SW846 8270C
Pyrene	40000	450	ug/kg	SW846 8270C
Acetone	14 J,B	27	ug/kg	SW846 8260A
2-Butanone	4.3 J	27	ug/kg	SW846 8260A
Carbon disulfide	0.86 J	6.7	ug/kg	SW846 8260A
Methylene chloride	5.5 J,B	6.7	ug/kg	SW846 8260A
Percent Solids	74.8	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD05-SSA-0411 04/14/11 14:28 022				
Anthracene	180	35	ug/kg	SW846 8270C
Benzo(a)anthracene	1300	35	ug/kg	SW846 8270C
Benzo(a)pyrene	1700	35	ug/kg	SW846 8270C
Benzo(b)fluoranthene	2700	35	ug/kg	SW846 8270C
Benzo(ghi)perylene	1300	35	ug/kg	SW846 8270C
Benzo(k)fluoranthene	1400	35	ug/kg	SW846 8270C
Chrysene	1900	35	ug/kg	SW846 8270C
Fluoranthene	3000	35	ug/kg	SW846 8270C
Fluorene	39	35	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	1100	35	ug/kg	SW846 8270C
Phenanthrene	800	35	ug/kg	SW846 8270C
Pyrene	2700	35	ug/kg	SW846 8270C
Acetone	27 J,B	42	ug/kg	SW846 8260A
Bromomethane	4.6 J	21	ug/kg	SW846 8260A
2-Butanone	5.9 J	42	ug/kg	SW846 8260A
Methylene chloride	6.1 J,B	10	ug/kg	SW846 8260A
Percent Solids	48.2	10.0	%	MCAWW 160.3 MOD
SD06-LAN-0411 04/14/11 12:30 023				
Acenaphthene	34	20	ug/kg	SW846 8270C
Anthracene	110	20	ug/kg	SW846 8270C
Benzo(a)anthracene	720	20	ug/kg	SW846 8270C
Benzo(a)pyrene	950	20	ug/kg	SW846 8270C
Benzo(b)fluoranthene	1400	20	ug/kg	SW846 8270C
Benzo(ghi)perylene	850	20	ug/kg	SW846 8270C
Benzo(k)fluoranthene	680	20	ug/kg	SW846 8270C
Chrysene	1100	20	ug/kg	SW846 8270C
Fluoranthene	2200	20	ug/kg	SW846 8270C
Fluorene	37	20	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	720	20	ug/kg	SW846 8270C
Phenanthrene	740	20	ug/kg	SW846 8270C
Pyrene	1700	20	ug/kg	SW846 8270C
Acetone	21 J,B	29	ug/kg	SW846 8260A
2-Butanone	5.1 J	29	ug/kg	SW846 8260A
Carbon disulfide	0.87 J	7.3	ug/kg	SW846 8260A
Methylene chloride	4.5 J,B	7.3	ug/kg	SW846 8260A
Percent Solids	68.2	10.0	%	MCAWW 160.3 MOD

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD07-LAN-0411 04/14/11 12:10 024				
Arsenic	10.8	1.4	mg/kg	SW846 6010B
Lead	13.2	0.41	mg/kg	SW846 6010B
Barium	66.2 J	27.6	mg/kg	SW846 6010B
Cadmium	0.14 B	0.69	mg/kg	SW846 6010B
Chromium	15.5	1.4	mg/kg	SW846 6010B
Methylene chloride	2.2 J,B	6.9	ug/kg	SW846 8260A
Percent Solids	72.4	10.0	%	MCAWW 160.3 MOD
SD08-LAN-0411 04/14/11 11:00 025				
Mercury	0.020 B	0.12	mg/kg	SW846 7471A
Arsenic	22.2	1.3	mg/kg	SW846 6010B
Lead	24.4	0.38	mg/kg	SW846 6010B
Barium	51.0 J	25.2	mg/kg	SW846 6010B
Cadmium	0.28 B	0.63	mg/kg	SW846 6010B
Chromium	11.8	1.3	mg/kg	SW846 6010B
Acenaphthene	170	35	ug/kg	SW846 8270C
Anthracene	360	35	ug/kg	SW846 8270C
Benzo(a)anthracene	970	35	ug/kg	SW846 8270C
Benzo(a)pyrene	950	35	ug/kg	SW846 8270C
Benzo(b)fluoranthene	1300	35	ug/kg	SW846 8270C
Benzo(ghi)perylene	640	35	ug/kg	SW846 8270C
Benzo(k)fluoranthene	640	35	ug/kg	SW846 8270C
Chrysene	1100	35	ug/kg	SW846 8270C
Fluoranthene	2600	35	ug/kg	SW846 8270C
Fluorene	160	35	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	540	35	ug/kg	SW846 8270C
2-Methylnaphthalene	54	35	ug/kg	SW846 8270C
Naphthalene	55	35	ug/kg	SW846 8270C
Phenanthrene	1800	35	ug/kg	SW846 8270C
Pyrene	1900	35	ug/kg	SW846 8270C
Acetone	11 J,B	26	ug/kg	SW846 8260A
Methylene chloride	3.2 J,B	6.6	ug/kg	SW846 8260A
Percent Solids	76.2	10.0	%	MCAWW 160.3 MOD
SD11-LAN-0411 04/14/11 11:50 026				
Mercury	0.029 B	0.14	mg/kg	SW846 7471A
Arsenic	16.3	1.5	mg/kg	SW846 6010B
Lead	26.6	0.44	mg/kg	SW846 6010B
Barium	74.5 J	29.1	mg/kg	SW846 6010B
Cadmium	0.26 B	0.73	mg/kg	SW846 6010B
Chromium	15.6	1.5	mg/kg	SW846 6010B

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EXECUTIVE SUMMARY - Detection Highlights

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PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD11-LAN-0411 04/14/11 11:50 026				
Acenaphthene	65	23	ug/kg	SW846 8270C
Anthracene	180	23	ug/kg	SW846 8270C
Benzo(a)anthracene	840	23	ug/kg	SW846 8270C
Benzo(a)pyrene	900	23	ug/kg	SW846 8270C
Benzo(b)fluoranthene	1200	23	ug/kg	SW846 8270C
Benzo(ghi)perylene	620	23	ug/kg	SW846 8270C
Benzo(k)fluoranthene	660	23	ug/kg	SW846 8270C
Chrysene	1000	23	ug/kg	SW846 8270C
Fluoranthene	2100	23	ug/kg	SW846 8270C
Fluorene	63	23	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	540	23	ug/kg	SW846 8270C
Phenanthrene	930	23	ug/kg	SW846 8270C
Pyrene	1600	23	ug/kg	SW846 8270C
Acetone	12 J,B	35	ug/kg	SW846 8260A
Methylene chloride	2.3 J,B	8.8	ug/kg	SW846 8260A
Percent Solids	57.1	10.0	%	MCAWW 160.3 MOD
SD13-CSA-0411 04/14/11 15:35 027				
C20-C34	72	22	mg/kg	SW846 8015B
C10-C20	17 J	22	mg/kg	SW846 8015B
Mercury	0.031 B	0.12	mg/kg	SW846 7471A
Arsenic	19.1	0.91	mg/kg	SW846 6010B
Lead	19.2	0.27	mg/kg	SW846 6010B
Selenium	0.64	0.45	mg/kg	SW846 6010B
Barium	67.3 J	18.2	mg/kg	SW846 6010B
Cadmium	0.18 B	0.45	mg/kg	SW846 6010B
Chromium	11.8	0.91	mg/kg	SW846 6010B
Acenaphthene	26	8.8	ug/kg	SW846 8270C
Anthracene	62	8.8	ug/kg	SW846 8270C
Benzo(a)anthracene	370	8.8	ug/kg	SW846 8270C
Benzo(a)pyrene	380	8.8	ug/kg	SW846 8270C
Benzo(b)fluoranthene	540	8.8	ug/kg	SW846 8270C
Benzo(ghi)perylene	280	8.8	ug/kg	SW846 8270C
Benzo(k)fluoranthene	220	8.8	ug/kg	SW846 8270C
Chrysene	420	8.8	ug/kg	SW846 8270C
Fluoranthene	810	8.8	ug/kg	SW846 8270C
Fluorene	23	8.8	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	230	8.8	ug/kg	SW846 8270C
1-Methylnaphthalene	16	8.8	ug/kg	SW846 8270C
2-Methylnaphthalene	22	8.8	ug/kg	SW846 8270C
Naphthalene	15	8.8	ug/kg	SW846 8270C
Phenanthrene	340	8.8	ug/kg	SW846 8270C

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EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD13-CSA-0411 04/14/11 15:35 027				
Pyrene	640	8.8	ug/kg	SW846 8270C
Percent Solids	76.0	10.0	%	MCAWW 160.3 MOD
SD12-LAN-0411 04/14/11 14:15 028				
Mercury	0.029 B	0.10	mg/kg	SW846 7471A
Arsenic	9.3	1.3	mg/kg	SW846 6010B
Lead	17.3	0.40	mg/kg	SW846 6010B
Selenium	0.67	0.67	mg/kg	SW846 6010B
Barium	89.7 J	26.6	mg/kg	SW846 6010B
Cadmium	0.11 B	0.67	mg/kg	SW846 6010B
Chromium	13.7	1.3	mg/kg	SW846 6010B
Acenaphthene	15	9.2	ug/kg	SW846 8270C
Anthracene	47	9.2	ug/kg	SW846 8270C
Benzo(a)anthracene	180	9.2	ug/kg	SW846 8270C
Benzo(a)pyrene	170	9.2	ug/kg	SW846 8270C
Benzo(b)fluoranthene	290	9.2	ug/kg	SW846 8270C
Benzo(ghi)perylene	120	9.2	ug/kg	SW846 8270C
Benzo(k)fluoranthene	150	9.2	ug/kg	SW846 8270C
Chrysene	250	9.2	ug/kg	SW846 8270C
Fluoranthene	590	9.2	ug/kg	SW846 8270C
Fluorene	17	9.2	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	110	9.2	ug/kg	SW846 8270C
Phenanthrene	200	9.2	ug/kg	SW846 8270C
Pyrene	440	9.2	ug/kg	SW846 8270C
Acetone	17 J,B	28	ug/kg	SW846 8260A
2-Butanone	3.3 J,B	28	ug/kg	SW846 8260A
Methylene chloride	2.3 J,B	6.9	ug/kg	SW846 8260A
Percent Solids	72.2	10.0	%	MCAWW 160.3 MOD
SW01-LAN-0411 04/14/11 11:35 029				
Barium	47.4 B,J	200	ug/L	SW846 6010B
SWDUP0414 04/14/11 030				
Barium	46.0 B,J	200	ug/L	SW846 6010B
SW02-LAN-0411 04/14/11 14:00 031				
Barium	46.9 B,J	200	ug/L	SW846 6010B
Benzo(b)fluoranthene	0.67	0.20	ug/L	SW846 8270C
Fluoranthene	0.24	0.20	ug/L	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1D150470

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TRIP BLANK 04/14/11 17:16 032				
Acetone	9.6 J	10	ug/L	SW846 8260B
Chloroform	0.23 J	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.24 J	1.0	ug/L	SW846 8260B
Methylene chloride	8.8	1.0	ug/L	SW846 8260B
Toluene	0.47 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1D150470

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
PCBs by SW-846 8082	SW846 8082
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260A
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1D150470

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MG3ML	001	SB66-CSA-04-0411	04/13/11	13:25
MG3MX	002	SB92-NEW-2530-0411	04/13/11	10:14
MG3M1	003	SB67-CSA-04-0411	04/13/11	13:40
MG3M4	004	SB69-CSA-02-0411	04/13/11	13:31
MG3M6	005	SB68-CSA-04-0411	04/13/11	13:36
MG3NA	006	SB93-NEW-2730-0411	04/13/11	11:38
MG3ND	007	SB69-CSA-04-0411	04/13/11	13:31
MG3NF	008	SB91-NEW-2527-0411	04/13/11	09:08
MG3NK	009	SB65-CSA-04-0411	04/13/11	13:21
MG3NL	010	SB64-CSA-04-0411	04/13/11	13:16
MG3NN	011	DUP0413	04/13/11	
MG3NT	012	SB63-CSA-02-0411	04/13/11	13:10
MG3N0	013	SB65-CSA-02-0411	04/13/11	13:21
MG3N1	014	SB63-CSA-04-0411	04/13/11	13:10
MG3N6	015	SB66-CSA-02-0411	04/13/11	13:25
MG3N7	016	SB62-CSA-04-0411	04/13/11	13:04
MG3PA	017	SB68-CSA-02-0411	04/13/11	13:36
MG3PC	018	SB62-CSA-04-0411	04/13/11	13:04
MG3PE	019	LANDFILL BORING 2	04/13/11	14:58
MG3PK	020	GW61-CSA-0411	04/13/11	12:50
MG3PQ	021	SD04-SSA-0411	04/14/11	10:40
MG3PT	022	SD05-SSA-0411	04/14/11	14:28
MG3PV	023	SD06-LAN-0411	04/14/11	12:30
MG3P0	024	SD07-LAN-0411	04/14/11	12:10
MG3P5	025	SD08-LAN-0411	04/14/11	11:00
MG3P6	026	SD11-LAN-0411	04/14/11	11:50
MG3P8	027	SD13-CSA-0411	04/14/11	15:35
MG3QA	028	SD12-LAN-0411	04/14/11	14:15
MG3QE	029	SW01-LAN-0411	04/14/11	11:35
MG3QF	030	SWDUP0414	04/14/11	
MG3QH	031	SW02-LAN-0411	04/14/11	14:00
MG3QJ	032	TRIP BLANK	04/14/11	17:16

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-001 **Work Order #...:** MG3ML1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.1	ug/kg	4.0
Acenaphthylene	ND	8.1	ug/kg	4.0
Anthracene	ND	8.1	ug/kg	4.0
Benzo(a)anthracene	ND	8.1	ug/kg	4.0
Benzo(a)pyrene	ND	8.1	ug/kg	4.0
Benzo(b)fluoranthene	ND	8.1	ug/kg	4.0
Benzo(ghi)perylene	ND	8.1	ug/kg	4.0
Benzo(k)fluoranthene	ND	8.1	ug/kg	4.0
Chrysene	ND	8.1	ug/kg	1.3
Dibenz(a,h)anthracene	ND	8.1	ug/kg	4.0
Fluoranthene	ND	8.1	ug/kg	4.0
Fluorene	ND	8.1	ug/kg	4.0
Indeno(1,2,3-cd)pyrene	ND	8.1	ug/kg	4.0
1-Methylnaphthalene	**65**	**8.1**	**ug/kg**	**4.0**
2-Methylnaphthalene	**100**	**8.1**	**ug/kg**	**4.0**
Naphthalene	**63**	**8.1**	**ug/kg**	**4.0**
Phenanthrene	**30**	**8.1**	**ug/kg**	**4.0**
Pyrene	ND	8.1	ug/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(24 - 112)
2-Fluorobiphenyl	46	(34 - 110)
Terphenyl-d14	60	(41 - 119)
Phenol-d5	48	(28 - 110)
2-Fluorophenol	51	(26 - 110)
2,4,6-Tribromophenol	33	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-001 **Work Order #...:** MG3ML1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	56

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	71	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-001 **Work Order #...:** MG3ML1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	20	mg/kg	11
C10-C20	ND	20	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-001 **Work Order #...:** MG3ML1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 17 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(10 - 196)
Decachlorobiphenyl	110	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-001 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1111027						
Arsenic	**14.9**	**1.0**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3ML1AF**
		Dilution Factor: 0.86		MDL.....: 0.31		
Lead	**15.0**	**0.31**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3ML1AG**
		Dilution Factor: 0.86		MDL.....: 0.20		
Barium	**64.8 J**	**20.8**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3ML1AJ**
		Dilution Factor: 0.86		MDL.....: 0.074		
Selenium	ND	0.52	mg/kg	SW846 6010B	04/21-04/22/11	MG3ML1AH
		Dilution Factor: 0.86		MDL.....: 0.47		
Cadmium	ND	0.52	mg/kg	SW846 6010B	04/21-04/22/11	MG3ML1AK
		Dilution Factor: 0.86		MDL.....: 0.037		
Chromium	**14.1**	**1.0**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3ML1AL**
		Dilution Factor: 0.86		MDL.....: 0.21		
Silver	ND	1.0	mg/kg	SW846 6010B	04/21-04/22/11	MG3ML1AM
		Dilution Factor: 0.86		MDL.....: 0.10		
Mercury	ND	0.097	mg/kg	SW846 7471A	04/21-04/26/11	MG3ML1AE
		Dilution Factor: 0.8		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-001 **Work Order #...:** MG3ML **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
% Moisture.....: 17

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108147**
	Dilution Factor: 1			MDL.....: 10.0		

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX1AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**32 B**	**22**	**ug/kg**	**7.0**
Benzene	**0.56 J**	**5.6**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromomethane	ND	11	ug/kg	0.60
2-Butanone	ND	22	ug/kg	1.6
Carbon disulfide	**3.1 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.41
Chloroethane	ND	11	ug/kg	0.96
Chloroform	ND	5.6	ug/kg	0.32
Chloromethane	ND	11	ug/kg	0.46
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.77
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
n-Hexane	ND	5.6	ug/kg	1.3
Methylene chloride	**13 B**	**5.6**	**ug/kg**	**0.75**
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.62
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.2	ug/kg	0.43

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	117	(33 - 134)
4-Bromofluorobenzene	132	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX2AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1118325
Dilution Factor: 10
% Moisture.....: 10 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	56	ug/kg	3.7
Chlorobenzene	ND	56	ug/kg	3.7
Dibromochloromethane	ND	56	ug/kg	6.1
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	14
1,2-Dibromoethane	ND	56	ug/kg	5.6
1,2-Dichlorobenzene	ND	56	ug/kg	4.0
1,3-Dichlorobenzene	ND	56	ug/kg	3.9
1,4-Dichlorobenzene	ND	56	ug/kg	7.4
trans-1,3-Dichloropropene	ND	56	ug/kg	6.0
Ethylbenzene	ND	56	ug/kg	2.9
2-Hexanone	ND	220	ug/kg	7.0
Isopropylbenzene	ND	56	ug/kg	1.8
4-Methyl-2-pentanone	ND	220	ug/kg	6.0
Styrene	ND	56	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	56	ug/kg	3.8
Tetrachloroethene	ND	56	ug/kg	5.8
Toluene	ND	56	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	56	ug/kg	3.0
1,1,2-Trichloroethane	ND	56	ug/kg	4.3
Xylenes (total)	ND	56	ug/kg	7.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(30 - 122)
1,2-Dichloroethane-d4	97	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108058
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.4	ug/kg	3.7
Acenaphthylene	ND	7.4	ug/kg	3.7
Anthracene	ND	7.4	ug/kg	3.7
Benzo(a)anthracene	ND	7.4	ug/kg	3.7
Benzo(a)pyrene	**9.9**	**7.4**	**ug/kg**	**3.7**
Benzo(b)fluoranthene	**15**	**7.4**	**ug/kg**	**3.7**
Benzo(ghi)perylene	**39**	**7.4**	**ug/kg**	**3.7**
Benzo(k)fluoranthene	ND	7.4	ug/kg	3.7
Chrysene	**16**	**7.4**	**ug/kg**	**1.2**
Dibenz(a,h)anthracene	ND	7.4	ug/kg	3.7
Fluoranthene	**13**	**7.4**	**ug/kg**	**3.7**
Fluorene	ND	7.4	ug/kg	3.7
Indeno(1,2,3-cd)pyrene	ND	7.4	ug/kg	3.7
1-Methylnaphthalene	**13**	**7.4**	**ug/kg**	**3.7**
2-Methylnaphthalene	**20**	**7.4**	**ug/kg**	**3.7**
Naphthalene	ND	7.4	ug/kg	3.7
Phenanthrene	**19**	**7.4**	**ug/kg**	**3.7**
Pyrene	**20**	**7.4**	**ug/kg**	**3.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(24 - 112)
2-Fluorobiphenyl	56	(34 - 110)
Terphenyl-d14	76	(41 - 119)
Phenol-d5	68	(28 - 110)
2-Fluorophenol	67	(26 - 110)
2,4,6-Tribromophenol	43	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC Volatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	51

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	59	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**41**	**19**	**mg/kg**	**10**
C10-C20	**28**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	31	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 10 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	23
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	14
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	65	(10 - 196)
Decachlorobiphenyl	68	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

TOTAL Metals

Lot-Sample #...: A1D150470-002 **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1111027						
Arsenic	**12.0**	**1.0**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3MX1AF**
		Dilution Factor: 0.92		MDL.....: 0.31		
Lead	**9.9**	**0.31**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3MX1AG**
		Dilution Factor: 0.92		MDL.....: 0.19		
Barium	**33.7 J**	**20.5**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3MX1AJ**
		Dilution Factor: 0.92		MDL.....: 0.073		
Selenium	ND	0.51	mg/kg	SW846 6010B	04/21-04/22/11	MG3MX1AH
		Dilution Factor: 0.92		MDL.....: 0.46		
Cadmium	ND	0.51	mg/kg	SW846 6010B	04/21-04/22/11	MG3MX1AK
		Dilution Factor: 0.92		MDL.....: 0.037		
Chromium	**16.7**	**1.0**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3MX1AL**
		Dilution Factor: 0.92		MDL.....: 0.20		
Silver	ND	1.0	mg/kg	SW846 6010B	04/21-04/22/11	MG3MX1AM
		Dilution Factor: 0.92		MDL.....: 0.10		
Mercury	ND	0.095	mg/kg	SW846 7471A	04/21-04/26/11	MG3MX1AE
		Dilution Factor: 0.85		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB92-NEW-2530-0411

General Chemistry

Lot-Sample #...: A1D150470-002 **Work Order #...:** MG3MX **Matrix.....:** SO
Date Sampled...: 04/13/11 10:14 **Date Received..:** 04/15/11
% Moisture.....: 10

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108147**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-003 **Work Order #...:** MG3M11AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 5
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	39	ug/kg	19
Acenaphthylene	ND	39	ug/kg	19
Anthracene	ND	39	ug/kg	19
Benzo(a)anthracene	**40**	**39**	**ug/kg**	**19**
Benzo(a)pyrene	ND	39	ug/kg	19
Benzo(b)fluoranthene	ND	39	ug/kg	19
Benzo(ghi)perylene	ND	39	ug/kg	19
Benzo(k)fluoranthene	ND	39	ug/kg	19
Chrysene	**39**	**39**	**ug/kg**	**6.5**
Dibenz(a,h)anthracene	ND	39	ug/kg	19
Fluoranthene	**52**	**39**	**ug/kg**	**19**
Fluorene	ND	39	ug/kg	19
Indeno(1,2,3-cd)pyrene	ND	39	ug/kg	19
1-Methylnaphthalene	**550**	**39**	**ug/kg**	**19**
2-Methylnaphthalene	**790**	**39**	**ug/kg**	**19**
Naphthalene	**430**	**39**	**ug/kg**	**19**
Phenanthrene	**190**	**39**	**ug/kg**	**19**
Pyrene	**77**	**39**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	28 DIL	(24 - 112)
2-Fluorobiphenyl	31 DIL,*	(34 - 110)
Terphenyl-d14	48 DIL	(41 - 119)
Phenol-d5	34 DIL	(28 - 110)
2-Fluorophenol	33 DIL	(26 - 110)
2,4,6-Tribromophenol	26 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-003 **Work Order #...:** MG3M11AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	78	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-003 **Work Order #...:** MG3M11AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**170**	**20**	**mg/kg**	**11**
C10-C20	**78**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	38	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-003 **Work Order #...:** MG3M11AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	72	(10 - 196)
Decachlorobiphenyl	92	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-003 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1111027						
Arsenic	**21.3**	**1.1**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M11AF**
		Dilution Factor: 0.95		MDL.....: 0.33		
Lead	**18.3**	**0.33**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M11AG**
		Dilution Factor: 0.95		MDL.....: 0.21		
Barium	**58.4 J**	**22.3**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M11AJ**
		Dilution Factor: 0.95		MDL.....: 0.079		
Selenium	ND	0.56	mg/kg	SW846 6010B	04/21-04/25/11	MG3M11AH
		Dilution Factor: 0.95		MDL.....: 0.50		
Cadmium	ND	0.56	mg/kg	SW846 6010B	04/21-04/22/11	MG3M11AK
		Dilution Factor: 0.95		MDL.....: 0.040		
Chromium	**14.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M11AL**
		Dilution Factor: 0.95		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/21-04/22/11	MG3M11AM
		Dilution Factor: 0.95		MDL.....: 0.11		
Mercury	**0.036 B**	**0.12**	**mg/kg**	**SW846 7471A**	**04/21-04/26/11**	**MG3M11AE**
		Dilution Factor: 1		MDL.....: 0.018		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB67-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-003 **Work Order #...:** MG3M1 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:40 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108147**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-004 **Work Order #...:** MG3M41AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108058
Dilution Factor: 10
% Moisture.....: 16 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	80	ug/kg	40
Acenaphthylene	ND	80	ug/kg	40
Anthracene	**210**	**80**	**ug/kg**	**40**
Benzo(a)anthracene	**170**	**80**	**ug/kg**	**40**
Benzo(a)pyrene	**130**	**80**	**ug/kg**	**40**
Benzo(b)fluoranthene	**100**	**80**	**ug/kg**	**40**
Benzo(ghi)perylene	ND	80	ug/kg	40
Benzo(k)fluoranthene	ND	80	ug/kg	40
Chrysene	**180**	**80**	**ug/kg**	**13**
Dibenz(a,h)anthracene	ND	80	ug/kg	40
Fluoranthene	**190**	**80**	**ug/kg**	**40**
Fluorene	ND	80	ug/kg	40
Indeno(1,2,3-cd)pyrene	ND	80	ug/kg	40
1-Methylnaphthalene	**2400**	**80**	**ug/kg**	**40**
2-Methylnaphthalene	**3800**	**80**	**ug/kg**	**40**
Naphthalene	**2200**	**80**	**ug/kg**	**40**
Phenanthrene	**960**	**80**	**ug/kg**	**40**
Pyrene	**200**	**80**	**ug/kg**	**40**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58 DIL	(24 - 112)
2-Fluorobiphenyl	63 DIL	(34 - 110)
Terphenyl-d14	77 DIL	(41 - 119)
Phenol-d5	72 DIL	(28 - 110)
2-Fluorophenol	68 DIL	(26 - 110)
2,4,6-Tribromophenol	83 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

GC Volatiles

Lot-Sample #...: A1D150470-004 **Work Order #...:** MG3M41AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	55

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	74	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-004 **Work Order #...:** MG3M41AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**70**	**20**	**mg/kg**	**11**
C10-C20	**37**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	41	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-004 **Work Order #...:** MG3M41AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	25
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	20
Aroclor 1254	ND	40	ug/kg	20
Aroclor 1260	ND	40	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	78	(10 - 196)
Decachlorobiphenyl	90	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

TOTAL Metals

Lot-Sample #...: A1D150470-004 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1111027						
Arsenic	**16.6**	**1.1**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M41AF**
		Dilution Factor: 0.88		MDL.....: 0.32		
Lead	**15.6**	**0.32**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M41AG**
		Dilution Factor: 0.88		MDL.....: 0.20		
Barium	**55.3 J**	**21.1**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M41AJ**
		Dilution Factor: 0.88		MDL.....: 0.075		
Selenium	ND	0.53	mg/kg	SW846 6010B	04/21-04/25/11	MG3M41AH
		Dilution Factor: 0.88		MDL.....: 0.47		
Cadmium	ND	0.53	mg/kg	SW846 6010B	04/21-04/22/11	MG3M41AK
		Dilution Factor: 0.88		MDL.....: 0.038		
Chromium	**12.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MG3M41AL**
		Dilution Factor: 0.88		MDL.....: 0.21		
Silver	ND	1.1	mg/kg	SW846 6010B	04/21-04/22/11	MG3M41AM
		Dilution Factor: 0.88		MDL.....: 0.11		
Mercury	**0.022 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/21-04/26/11**	**MG3M41AE**
		Dilution Factor: 0.91		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-02-0411

General Chemistry

Lot-Sample #...: A1D150470-004 **Work Order #...:** MG3M4 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.5**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108147**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-005 **Work Order #...:** MG3M61AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	**7.9**	**7.7**	**ug/kg**	**3.8**
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	ND	7.7	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	**11**	**7.7**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	**11**	**7.7**	**ug/kg**	**3.8**
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	**120**	**7.7**	**ug/kg**	**3.8**
2-Methylnaphthalene	**200**	**7.7**	**ug/kg**	**3.8**
Naphthalene	**120**	**7.7**	**ug/kg**	**3.8**
Phenanthrene	**47**	**7.7**	**ug/kg**	**3.8**
Pyrene	**14**	**7.7**	**ug/kg**	**3.8**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
Terphenyl-d14	65	(41 - 119)
Phenol-d5	54	(28 - 110)
2-Fluorophenol	58	(26 - 110)
2,4,6-Tribromophenol	36	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-005 **Work Order #...:** MG3M61AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	70	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-005 **Work Order #...:** MG3M61AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**35**	**19**	**mg/kg**	**11**
C10-C20	**14 J**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	47	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-005 **Work Order #...:** MG3M61AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	83	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-005 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**12.0**	**1.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3M61AF**
		Dilution Factor: 1		MDL.....: 0.35		
Lead	**22.5**	**0.35**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3M61AG**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**75.6 J**	**23.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3M61AJ**
		Dilution Factor: 1		MDL.....: 0.082		
Selenium	ND	0.58	mg/kg	SW846 6010B	04/20-04/22/11	MG3M61AH
		Dilution Factor: 1		MDL.....: 0.52		
Cadmium	ND	0.58	mg/kg	SW846 6010B	04/20-04/22/11	MG3M61AK
		Dilution Factor: 1		MDL.....: 0.042		
Chromium	**11.5**	**1.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3M61AL**
		Dilution Factor: 1		MDL.....: 0.23		
Silver	ND	1.2	mg/kg	SW846 6010B	04/20-04/22/11	MG3M61AM
		Dilution Factor: 1		MDL.....: 0.12		
Mercury	**0.041 B**	**0.12**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3M61AE**
		Dilution Factor: 1		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-005 **Work Order #...:** MG3M6 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**
		Dilution Factor: 1		MDL.....: 10.0		

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA1AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**25 B**	**22**	**ug/kg**	**7.1**
Benzene	**2.0 J**	**5.6**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.6	ug/kg	0.31
Bromomethane	ND	11	ug/kg	0.61
2-Butanone	ND	22	ug/kg	1.6
Carbon disulfide	**4.3 J**	**5.6**	**ug/kg**	**0.49**
Carbon tetrachloride	ND	5.6	ug/kg	0.42
Chloroethane	ND	11	ug/kg	0.96
Chloroform	ND	5.6	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.46
Dichlorodifluoromethane	ND	11	ug/kg	0.56
1,1-Dichloroethane	ND	5.6	ug/kg	0.40
1,2-Dichloroethane	ND	5.6	ug/kg	0.38
cis-1,2-Dichloroethene	ND	2.8	ug/kg	0.40
trans-1,2-Dichloroethene	ND	2.8	ug/kg	0.46
1,1-Dichloroethene	ND	5.6	ug/kg	0.58
1,2-Dichloropropane	ND	5.6	ug/kg	0.77
cis-1,3-Dichloropropene	ND	5.6	ug/kg	0.38
n-Hexane	ND	5.6	ug/kg	1.3
Methylene chloride	**8.9 B**	**5.6**	**ug/kg**	**0.75**
Methyl tert-butyl ether (MTBE)	ND	22	ug/kg	0.48
1,1,1-Trichloroethane	ND	5.6	ug/kg	0.63
Trichloroethene	ND	5.6	ug/kg	0.47
Trichlorofluoromethane	ND	11	ug/kg	0.38
Vinyl chloride	ND	2.2	ug/kg	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	119	(33 - 134)
4-Bromofluorobenzene	130	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA2AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1118255
Dilution Factor: 10
% Moisture.....: 11 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	56	ug/kg	3.7
Chlorobenzene	ND	56	ug/kg	3.7
Dibromochloromethane	ND	56	ug/kg	6.2
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	15
1,2-Dibromoethane	ND	56	ug/kg	5.6
1,2-Dichlorobenzene	ND	56	ug/kg	4.0
1,3-Dichlorobenzene	ND	56	ug/kg	3.9
1,4-Dichlorobenzene	ND	56	ug/kg	7.4
trans-1,3-Dichloropropene	ND	56	ug/kg	6.1
Ethylbenzene	ND	56	ug/kg	2.9
2-Hexanone	ND	220	ug/kg	7.1
Isopropylbenzene	ND	56	ug/kg	1.8
Styrene	ND	56	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	56	ug/kg	3.8
Tetrachloroethene	ND	56	ug/kg	5.8
Toluene	ND	56	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	56	ug/kg	3.0
1,1,2-Trichloroethane	ND	56	ug/kg	4.4
Xylenes (total)	ND	56	ug/kg	7.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	86	(33 - 134)
4-Bromofluorobenzene	80	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 2.5
% Moisture.....: 11 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	19	ug/kg	9.3
Acenaphthylene	ND	19	ug/kg	9.3
Anthracene	ND	19	ug/kg	9.3
Benzo(a)anthracene	ND	19	ug/kg	9.3
Benzo(a)pyrene	ND	19	ug/kg	9.3
Benzo(b)fluoranthene	ND	19	ug/kg	9.3
Benzo(ghi)perylene	ND	19	ug/kg	9.3
Benzo(k)fluoranthene	ND	19	ug/kg	9.3
Chrysene	ND	19	ug/kg	3.1
Dibenz(a,h)anthracene	ND	19	ug/kg	9.3
Fluoranthene	ND	19	ug/kg	9.3
Fluorene	ND	19	ug/kg	9.3
Indeno(1,2,3-cd)pyrene	ND	19	ug/kg	9.3
1-Methylnaphthalene	**50**	**19**	**ug/kg**	**9.3**
2-Methylnaphthalene	**77**	**19**	**ug/kg**	**9.3**
Naphthalene	**26**	**19**	**ug/kg**	**9.3**
Phenanthrene	**43**	**19**	**ug/kg**	**9.3**
Pyrene	ND	19	ug/kg	9.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44 DIL	(24 - 112)
2-Fluorobiphenyl	51 DIL	(34 - 110)
Terphenyl-d14	66 DIL	(41 - 119)
Phenol-d5	57 DIL	(28 - 110)
2-Fluorophenol	54 DIL	(26 - 110)
2,4,6-Tribromophenol	29 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC Volatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	69	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**82**	**19**	**mg/kg**	**10**
C10-C20	**79**	**19**	**mg/kg**	**10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 11 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	37	ug/kg	24
Aroclor 1221	ND	37	ug/kg	18
Aroclor 1232	ND	37	ug/kg	16
Aroclor 1242	ND	37	ug/kg	15
Aroclor 1248	ND	37	ug/kg	19
Aroclor 1254	ND	37	ug/kg	19
Aroclor 1260	ND	37	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	60	(10 - 196)
Decachlorobiphenyl	79	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

TOTAL Metals

Lot-Sample #...: A1D150470-006 **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**12.4**	**0.84**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NA1AF**
		Dilution Factor: 0.75		MDL.....: 0.25		
Lead	**9.8**	**0.25**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NA1AG**
		Dilution Factor: 0.75		MDL.....: 0.16		
Barium	**56.9 J**	**16.8**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NA1AJ**
		Dilution Factor: 0.75		MDL.....: 0.060		
Selenium	ND	0.42	mg/kg	SW846 6010B	04/20-04/22/11	MG3NA1AH
		Dilution Factor: 0.75		MDL.....: 0.38		
Cadmium	**0.25 B**	**0.42**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NA1AK**
		Dilution Factor: 0.75		MDL.....: 0.030		
Chromium	**10.2**	**0.84**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NA1AL**
		Dilution Factor: 0.75		MDL.....: 0.17		
Silver	ND	0.84	mg/kg	SW846 6010B	04/20-04/22/11	MG3NA1AM
		Dilution Factor: 0.75		MDL.....: 0.084		
Mercury	ND	0.085	mg/kg	SW846 7471A	04/20-04/21/11	MG3NA1AE
		Dilution Factor: 0.76		MDL.....: 0.013		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB93-NEW-2730-0411

General Chemistry

Lot-Sample #...: A1D150470-006 **Work Order #...:** MG3NA **Matrix.....:** SO
Date Sampled...: 04/13/11 11:38 **Date Received..:** 04/15/11
% Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**89.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-007 **Work Order #...:** MG3ND1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.0	ug/kg	3.9
Acenaphthylene	ND	8.0	ug/kg	3.9
Anthracene	ND	8.0	ug/kg	3.9
Benzo(a)anthracene	**7.6 J**	**8.0**	**ug/kg**	**3.9**
Benzo(a)pyrene	ND	8.0	ug/kg	3.9
Benzo(b)fluoranthene	**12**	**8.0**	**ug/kg**	**3.9**
Benzo(ghi)perylene	ND	8.0	ug/kg	3.9
Benzo(k)fluoranthene	ND	8.0	ug/kg	3.9
Chrysene	**11**	**8.0**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	8.0	ug/kg	3.9
Fluoranthene	**16**	**8.0**	**ug/kg**	**3.9**
Fluorene	ND	8.0	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/kg	3.9
1-Methylnaphthalene	**54**	**8.0**	**ug/kg**	**3.9**
2-Methylnaphthalene	**81**	**8.0**	**ug/kg**	**3.9**
Naphthalene	**52**	**8.0**	**ug/kg**	**3.9**
Phenanthrene	**26**	**8.0**	**ug/kg**	**3.9**
Pyrene	**14**	**8.0**	**ug/kg**	**3.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	31	(24 - 112)
2-Fluorobiphenyl	36	(34 - 110)
Terphenyl-d14	49	(41 - 119)
Phenol-d5	38	(28 - 110)
2-Fluorophenol	42	(26 - 110)
2,4,6-Tribromophenol	33	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-007 **Work Order #...:** MG3ND1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	55

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	75	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-007 **Work Order #...:** MG3ND1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**56**	**20**	**mg/kg**	**11**
C10-C20	**19 J**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-007 **Work Order #...:** MG3ND1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	16
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	70	(10 - 196)
Decachlorobiphenyl	84	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-007 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**7.8**	**0.81**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3ND1AF**
		Dilution Factor: 0.68		MDL.....: 0.24		
Lead	**15.7**	**0.24**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3ND1AG**
		Dilution Factor: 0.68		MDL.....: 0.15		
Barium	**59.5 J**	**16.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3ND1AJ**
		Dilution Factor: 0.68		MDL.....: 0.058		
Selenium	ND	0.41	mg/kg	SW846 6010B	04/20-04/22/11	MG3ND1AH
		Dilution Factor: 0.68		MDL.....: 0.37		
Cadmium	ND	0.41	mg/kg	SW846 6010B	04/20-04/22/11	MG3ND1AK
		Dilution Factor: 0.68		MDL.....: 0.029		
Chromium	**11.3**	**0.81**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3ND1AL**
		Dilution Factor: 0.68		MDL.....: 0.16		
Silver	ND	0.81	mg/kg	SW846 6010B	04/20-04/22/11	MG3ND1AM
		Dilution Factor: 0.68		MDL.....: 0.081		
Mercury	**0.028 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3ND1AE**
		Dilution Factor: 0.95		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB69-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-007 **Work Order #...:** MG3ND **Matrix.....:** SO
Date Sampled...: 04/13/11 13:31 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**18 J,B**	**23**	**ug/kg**	**7.2**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.32
Bromoform	ND	5.7	ug/kg	0.38
Bromomethane	**2.8 J**	**11**	**ug/kg**	**0.62**
2-Butanone	**2.6 J**	**23**	**ug/kg**	**1.6**
Carbon disulfide	**2.3 J**	**5.7**	**ug/kg**	**0.50**
Carbon tetrachloride	ND	5.7	ug/kg	0.42
Chlorobenzene	ND	5.7	ug/kg	0.38
Dibromochloromethane	ND	5.7	ug/kg	0.63
Chloroethane	ND	11	ug/kg	0.98
Chloroform	ND	5.7	ug/kg	0.33
Chloromethane	ND	11	ug/kg	0.47
1,2-Dibromoethane	ND	5.7	ug/kg	0.57
Dichlorodifluoromethane	ND	11	ug/kg	0.57
1,1-Dichloroethane	ND	5.7	ug/kg	0.41
1,2-Dichloroethane	ND	5.7	ug/kg	0.39
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.41
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.47
1,1-Dichloroethene	ND	5.7	ug/kg	0.60
1,2-Dichloropropane	ND	5.7	ug/kg	0.79
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.39
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.62
Ethylbenzene	ND	5.7	ug/kg	0.30
n-Hexane	ND	5.7	ug/kg	1.4
2-Hexanone	ND	23	ug/kg	0.72
Isopropylbenzene	ND	5.7	ug/kg	0.18
Methylene chloride	**4.8 J,B**	**5.7**	**ug/kg**	**0.77**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.49
Styrene	ND	5.7	ug/kg	0.17
Tetrachloroethene	ND	5.7	ug/kg	0.60
Toluene	**0.45 J**	**5.7**	**ug/kg**	**0.31**
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.64
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.45
Trichloroethene	ND	5.7	ug/kg	0.48
Trichlorofluoromethane	ND	11	ug/kg	0.39

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AQ **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.3	ug/kg	0.45
Xylenes (total)	ND	5.7	ug/kg	0.77

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(30 - 122)
1,2-Dichloroethane-d4	99	(39 - 128)
Toluene-d8	110	(33 - 134)
4-Bromofluorobenzene	126	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF2AQ **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1118325
Dilution Factor: 10
% Moisture.....: 13 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	57	ug/kg	3.8
Chlorobenzene	ND	57	ug/kg	3.8
Dibromochloromethane	ND	57	ug/kg	6.3
1,2-Dibromo-3-chloro-propane	ND	110	ug/kg	15
1,2-Dibromoethane	ND	57	ug/kg	5.7
1,2-Dichlorobenzene	ND	57	ug/kg	4.1
1,3-Dichlorobenzene	ND	57	ug/kg	4.0
1,4-Dichlorobenzene	ND	57	ug/kg	7.6
trans-1,3-Dichloropropene	ND	57	ug/kg	6.2
Ethylbenzene	ND	57	ug/kg	3.0
2-Hexanone	ND	230	ug/kg	7.2
Isopropylbenzene	ND	57	ug/kg	1.8
4-Methyl-2-pentanone	ND	230	ug/kg	6.2
Styrene	ND	57	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	57	ug/kg	3.9
Tetrachloroethene	ND	57	ug/kg	6.0
Toluene	ND	57	ug/kg	3.1
1,2,4-Trichloro-benzene	ND	57	ug/kg	3.1
1,1,2-Trichloroethane	ND	57	ug/kg	4.5
Xylenes (total)	ND	57	ug/kg	7.7

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	98	(39 - 128)
Toluene-d8	87	(33 - 134)
4-Bromofluorobenzene	99	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.6	ug/kg	3.8
Acenaphthylene	ND	7.6	ug/kg	3.8
Anthracene	ND	7.6	ug/kg	3.8
Benzo(a)anthracene	ND	7.6	ug/kg	3.8
Benzo(a)pyrene	**7.6**	**7.6**	**ug/kg**	**3.8**
Benzo(b)fluoranthene	**9.9**	**7.6**	**ug/kg**	**3.8**
Benzo(ghi)perylene	**34**	**7.6**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	ND	7.6	ug/kg	3.8
Chrysene	**12**	**7.6**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.6	ug/kg	3.8
Fluoranthene	**10**	**7.6**	**ug/kg**	**3.8**
Fluorene	**9.6**	**7.6**	**ug/kg**	**3.8**
Indeno(1,2,3-cd)pyrene	ND	7.6	ug/kg	3.8
1-Methylnaphthalene	**27**	**7.6**	**ug/kg**	**3.8**
2-Methylnaphthalene	**23**	**7.6**	**ug/kg**	**3.8**
Naphthalene	ND	7.6	ug/kg	3.8
Phenanthrene	**30**	**7.6**	**ug/kg**	**3.8**
Pyrene	**18**	**7.6**	**ug/kg**	**3.8**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	48	(24 - 112)
2-Fluorobiphenyl	50	(34 - 110)
Terphenyl-d14	66	(41 - 119)
Phenol-d5	59	(28 - 110)
2-Fluorophenol	62	(26 - 110)
2,4,6-Tribromophenol	29	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC Volatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	110	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	86	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**34**	**19**	**mg/kg**	**11**
C10-C20	**27**	**19**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 13 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	18
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	19
Aroclor 1254	ND	38	ug/kg	19
Aroclor 1260	ND	38	ug/kg	19

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(10 - 196)
Decachlorobiphenyl	95	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

TOTAL Metals

Lot-Sample #...: A1D150470-008 **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**13.0**	**0.96**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NF1AF**
		Dilution Factor: 0.84		MDL.....: 0.29		
Lead	**11.3**	**0.29**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NF1AG**
		Dilution Factor: 0.84		MDL.....: 0.18		
Barium	**42.1 J**	**19.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NF1AJ**
		Dilution Factor: 0.84		MDL.....: 0.068		
Selenium	ND	0.48	mg/kg	SW846 6010B	04/20-04/22/11	MG3NF1AH
		Dilution Factor: 0.84		MDL.....: 0.43		
Cadmium	ND	0.48	mg/kg	SW846 6010B	04/20-04/22/11	MG3NF1AK
		Dilution Factor: 0.84		MDL.....: 0.035		
Chromium	**12.9**	**0.96**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NF1AL**
		Dilution Factor: 0.84		MDL.....: 0.19		
Silver	ND	0.96	mg/kg	SW846 6010B	04/20-04/22/11	MG3NF1AM
		Dilution Factor: 0.84		MDL.....: 0.096		
Mercury	ND	0.11	mg/kg	SW846 7471A	04/20-04/21/11	MG3NF1AE
		Dilution Factor: 0.98		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SB91-NEW-2527-0411

General Chemistry

Lot-Sample #...: A1D150470-008 **Work Order #...:** MG3NF **Matrix.....:** SO
Date Sampled...: 04/13/11 09:08 **Date Received..:** 04/15/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**87.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-009 **Work Order #...:** MG3NK1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.0	ug/kg	3.9
Acenaphthylene	ND	8.0	ug/kg	3.9
Anthracene	ND	8.0	ug/kg	3.9
Benzo(a)anthracene	ND	8.0	ug/kg	3.9
Benzo(a)pyrene	ND	8.0	ug/kg	3.9
Benzo(b)fluoranthene	ND	8.0	ug/kg	3.9
Benzo(ghi)perylene	ND	8.0	ug/kg	3.9
Benzo(k)fluoranthene	ND	8.0	ug/kg	3.9
Chrysene	ND	8.0	ug/kg	1.3
Dibenz(a,h)anthracene	ND	8.0	ug/kg	3.9
Fluoranthene	ND	8.0	ug/kg	3.9
Fluorene	ND	8.0	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	8.0	ug/kg	3.9
1-Methylnaphthalene	**69**	**8.0**	**ug/kg**	**3.9**
2-Methylnaphthalene	**110**	**8.0**	**ug/kg**	**3.9**
Naphthalene	**69**	**8.0**	**ug/kg**	**3.9**
Phenanthrene	**28**	**8.0**	**ug/kg**	**3.9**
Pyrene	**8.2**	**8.0**	**ug/kg**	**3.9**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
Terphenyl-d14	70	(41 - 119)
Phenol-d5	48	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	30	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-009 **Work Order #...:** MG3NK1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	55

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	68	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-009 **Work Order #...:** MG3NK1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**240**	**20**	**mg/kg**	**11**
C10-C20	**130**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	39	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-009 **Work Order #...:** MG3NK1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	16
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-009 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**24.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NK1AF**
		Dilution Factor: 0.93		MDL.....: 0.33		
Lead	**19.5**	**0.33**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NK1AG**
		Dilution Factor: 0.93		MDL.....: 0.21		
Barium	**81.7 J**	**22.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NK1AJ**
		Dilution Factor: 0.93		MDL.....: 0.079		
Selenium	**0.59**	**0.56**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NK1AH**
		Dilution Factor: 0.93		MDL.....: 0.50		
Cadmium	ND	0.56	mg/kg	SW846 6010B	04/20-04/22/11	MG3NK1AK
		Dilution Factor: 0.93		MDL.....: 0.040		
Chromium	**15.8**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NK1AL**
		Dilution Factor: 0.93		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/20-04/22/11	MG3NK1AM
		Dilution Factor: 0.93		MDL.....: 0.11		
Mercury	**0.035 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3NK1AE**
		Dilution Factor: 0.91		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-009 **Work Order #...:** MG3NK **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.6**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-010 **Work Order #...:** MG3NL1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.7	ug/kg	3.8
Acenaphthylene	ND	7.7	ug/kg	3.8
Anthracene	ND	7.7	ug/kg	3.8
Benzo(a)anthracene	ND	7.7	ug/kg	3.8
Benzo(a)pyrene	ND	7.7	ug/kg	3.8
Benzo(b)fluoranthene	ND	7.7	ug/kg	3.8
Benzo(ghi)perylene	ND	7.7	ug/kg	3.8
Benzo(k)fluoranthene	ND	7.7	ug/kg	3.8
Chrysene	ND	7.7	ug/kg	1.3
Dibenz(a,h)anthracene	ND	7.7	ug/kg	3.8
Fluoranthene	ND	7.7	ug/kg	3.8
Fluorene	ND	7.7	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	ND	7.7	ug/kg	3.8
1-Methylnaphthalene	**19**	**7.7**	**ug/kg**	**3.8**
2-Methylnaphthalene	**26**	**7.7**	**ug/kg**	**3.8**
Naphthalene	**16**	**7.7**	**ug/kg**	**3.8**
Phenanthrene	**7.9**	**7.7**	**ug/kg**	**3.8**
Pyrene	ND	7.7	ug/kg	3.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47	(24 - 112)
2-Fluorobiphenyl	52	(34 - 110)
Terphenyl-d14	66	(41 - 119)
Phenol-d5	55	(28 - 110)
2-Fluorophenol	55	(26 - 110)
2,4,6-Tribromophenol	30	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-010 **Work Order #...:** MG3NL1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/29/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	53

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	70	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-010 **Work Order #...:** MG3NL1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	19	mg/kg	11
C10-C20	ND	19	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	40	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-010 **Work Order #...:** MG3NL1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	60	(10 - 196)
Decachlorobiphenyl	48	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-010 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**15.8**	**0.90**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NL1AF**
		Dilution Factor: 0.78		MDL.....: 0.27		
Lead	**12.3**	**0.27**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NL1AG**
		Dilution Factor: 0.78		MDL.....: 0.17		
Barium	**72.3 J**	**18.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NL1AJ**
		Dilution Factor: 0.78		MDL.....: 0.064		
Selenium	**0.67**	**0.45**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NL1AH**
		Dilution Factor: 0.78		MDL.....: 0.41		
Cadmium	ND	0.45	mg/kg	SW846 6010B	04/20-04/22/11	MG3NL1AK
		Dilution Factor: 0.78		MDL.....: 0.033		
Chromium	**15.9**	**0.90**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NL1AL**
		Dilution Factor: 0.78		MDL.....: 0.18		
Silver	ND	0.90	mg/kg	SW846 6010B	04/20-04/22/11	MG3NL1AM
		Dilution Factor: 0.78		MDL.....: 0.090		
Mercury	**0.063 B**	**0.096**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3NL1AE**
		Dilution Factor: 0.83		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB64-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-010 **Work Order #...:** MG3NL **Matrix.....:** SO
Date Sampled...: 04/13/11 13:16 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-011 **Work Order #...:** MG3NN1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	8.1	ug/kg	4.0
Acenaphthylene	ND	8.1	ug/kg	4.0
Anthracene	ND	8.1	ug/kg	4.0
Benzo(a)anthracene	ND	8.1	ug/kg	4.0
Benzo(a)pyrene	ND	8.1	ug/kg	4.0
Benzo(b)fluoranthene	ND	8.1	ug/kg	4.0
Benzo(ghi)perylene	ND	8.1	ug/kg	4.0
Benzo(k)fluoranthene	ND	8.1	ug/kg	4.0
Chrysene	ND	8.1	ug/kg	1.3
Dibenz(a,h)anthracene	ND	8.1	ug/kg	4.0
Fluoranthene	ND	8.1	ug/kg	4.0
Fluorene	ND	8.1	ug/kg	4.0
Indeno(1,2,3-cd)pyrene	ND	8.1	ug/kg	4.0
1-Methylnaphthalene	**38**	**8.1**	**ug/kg**	**4.0**
2-Methylnaphthalene	**63**	**8.1**	**ug/kg**	**4.0**
Naphthalene	**38**	**8.1**	**ug/kg**	**4.0**
Phenanthrene	**16**	**8.1**	**ug/kg**	**4.0**
Pyrene	ND	8.1	ug/kg	4.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	49	(24 - 112)
2-Fluorobiphenyl	54	(34 - 110)
Terphenyl-d14	66	(41 - 119)
Phenol-d5	56	(28 - 110)
2-Fluorophenol	61	(26 - 110)
2,4,6-Tribromophenol	25	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

GC Volatiles

Lot-Sample #...: A1D150470-011 **Work Order #...:** MG3NN1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	56

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	82	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

GC Semivolatiles

Lot-Sample #...: A1D150470-011 **Work Order #...:** MG3NN1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	20	mg/kg	11
C10-C20	ND	20	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

GC Semivolatiles

Lot-Sample #...: A1D150470-011 **Work Order #...:** MG3NN1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	20
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	84	(10 - 196)
Decachlorobiphenyl	98	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

TOTAL Metals

Lot-Sample #...: A1D150470-011 **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**18.4**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NN1AF**
		Dilution Factor: 0.92		MDL.....: 0.34		
Lead	**20.8**	**0.34**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NN1AG**
		Dilution Factor: 0.92		MDL.....: 0.21		
Barium	**67.6 J**	**22.5**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NN1AJ**
		Dilution Factor: 0.92		MDL.....: 0.080		
Selenium	ND	0.56	mg/kg	SW846 6010B	04/20-04/22/11	MG3NN1AH
		Dilution Factor: 0.92		MDL.....: 0.51		
Cadmium	ND	0.56	mg/kg	SW846 6010B	04/20-04/22/11	MG3NN1AK
		Dilution Factor: 0.92		MDL.....: 0.040		
Chromium	**15.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NN1AL**
		Dilution Factor: 0.92		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/20-04/22/11	MG3NN1AM
		Dilution Factor: 0.92		MDL.....: 0.11		
Mercury	**0.038 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3NN1AE**
		Dilution Factor: 0.92		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: DUP0413

General Chemistry

Lot-Sample #...: A1D150470-011 **Work Order #...:** MG3NN **Matrix.....:** SO
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**81.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-012 **Work Order #...:** MG3NT1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 4
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**36**	**31**	**ug/kg**	**15**
Acenaphthylene	ND	31	ug/kg	15
Anthracene	**84**	**31**	**ug/kg**	**15**
Benzo(a)anthracene	**120**	**31**	**ug/kg**	**15**
Benzo(a)pyrene	**82**	**31**	**ug/kg**	**15**
Benzo(b)fluoranthene	**110**	**31**	**ug/kg**	**15**
Benzo(ghi)perylene	**70**	**31**	**ug/kg**	**15**
Benzo(k)fluoranthene	**55**	**31**	**ug/kg**	**15**
Chrysene	**140**	**31**	**ug/kg**	**5.2**
Dibenz(a,h)anthracene	ND	31	ug/kg	15
Fluoranthene	**230**	**31**	**ug/kg**	**15**
Fluorene	**40**	**31**	**ug/kg**	**15**
Indeno(1,2,3-cd)pyrene	**44**	**31**	**ug/kg**	**15**
1-Methylnaphthalene	**1000**	**31**	**ug/kg**	**15**
2-Methylnaphthalene	**1500**	**31**	**ug/kg**	**15**
Naphthalene	**790**	**31**	**ug/kg**	**15**
Phenanthrene	**480**	**31**	**ug/kg**	**15**
Pyrene	**200**	**31**	**ug/kg**	**15**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	46 DIL	(24 - 112)
2-Fluorobiphenyl	51 DIL	(34 - 110)
Terphenyl-d14	68 DIL	(41 - 119)
Phenol-d5	53 DIL	(28 - 110)
2-Fluorophenol	54 DIL	(26 - 110)
2,4,6-Tribromophenol	31 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

GC Volatiles

Lot-Sample #...: A1D150470-012 **Work Order #...:** MG3NT1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	67	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-012 **Work Order #...:** MG3NT1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**170**	**20**	**mg/kg**	**11**
C10-C20	**90**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-012 **Work Order #...:** MG3NT1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	73	(10 - 196)
Decachlorobiphenyl	90	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

TOTAL Metals

Lot-Sample #...: A1D150470-012 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**19.2**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NT1AF**
		Dilution Factor: 0.94		MDL.....: 0.33		
Lead	**16.6**	**0.33**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NT1AG**
		Dilution Factor: 0.94		MDL.....: 0.21		
Barium	**90.8 J**	**22.0**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NT1AJ**
		Dilution Factor: 0.94		MDL.....: 0.078		
Selenium	ND	0.55	mg/kg	SW846 6010B	04/20-04/22/11	MG3NT1AH
		Dilution Factor: 0.94		MDL.....: 0.50		
Cadmium	**0.31 B**	**0.55**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NT1AK**
		Dilution Factor: 0.94		MDL.....: 0.040		
Chromium	**12.7**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3NT1AL**
		Dilution Factor: 0.94		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/20-04/22/11	MG3NT1AM
		Dilution Factor: 0.94		MDL.....: 0.11		
Mercury	**0.022 B**	**0.094**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3NT1AE**
		Dilution Factor: 0.8		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-02-0411

General Chemistry

Lot-Sample #...: A1D150470-012 **Work Order #...:** MG3NT **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-013 **Work Order #...:** MG3N01AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 2.5
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**25**	**20**	**ug/kg**	**9.7**
Acenaphthylene	ND	20	ug/kg	9.7
Anthracene	**55**	**20**	**ug/kg**	**9.7**
Benzo(a)anthracene	**86**	**20**	**ug/kg**	**9.7**
Benzo(a)pyrene	**74**	**20**	**ug/kg**	**9.7**
Benzo(b)fluoranthene	**75**	**20**	**ug/kg**	**9.7**
Benzo(ghi)perylene	**61**	**20**	**ug/kg**	**9.7**
Benzo(k)fluoranthene	**47**	**20**	**ug/kg**	**9.7**
Chrysene	**94**	**20**	**ug/kg**	**3.2**
Dibenz(a,h)anthracene	ND	20	ug/kg	9.7
Fluoranthene	**130**	**20**	**ug/kg**	**9.7**
Fluorene	**27**	**20**	**ug/kg**	**9.7**
Indeno(1,2,3-cd)pyrene	**32**	**20**	**ug/kg**	**9.7**
1-Methylnaphthalene	**740**	**20**	**ug/kg**	**9.7**
2-Methylnaphthalene	**1200**	**20**	**ug/kg**	**9.7**
Naphthalene	**630**	**20**	**ug/kg**	**9.7**
Phenanthrene	**340**	**20**	**ug/kg**	**9.7**
Pyrene	**130**	**20**	**ug/kg**	**9.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	45 DIL	(24 - 112)
2-Fluorobiphenyl	49 DIL	(34 - 110)
Terphenyl-d14	68 DIL	(41 - 119)
Phenol-d5	57 DIL	(28 - 110)
2-Fluorophenol	52 DIL	(26 - 110)
2,4,6-Tribromophenol	41 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

GC Volatiles

Lot-Sample #...: A1D150470-013 **Work Order #...:** MG3N01AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	55	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-013 **Work Order #...:** MG3N01AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**130**	**20**	**mg/kg**	**11**
C10-C20	**68**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	44	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-013 **Work Order #...:** MG3N01AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	82	(10 - 196)
Decachlorobiphenyl	98	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

TOTAL Metals

Lot-Sample #...: A1D150470-013 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**16.9**	**0.83**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N01AF**
		Dilution Factor: 0.7		MDL.....: 0.25		
Lead	**21.6**	**0.25**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N01AG**
		Dilution Factor: 0.7		MDL.....: 0.16		
Barium	**69.2 J**	**16.5**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N01AJ**
		Dilution Factor: 0.7		MDL.....: 0.059		
Selenium	ND	0.41	mg/kg	SW846 6010B	04/20-04/22/11	MG3N01AH
		Dilution Factor: 0.7		MDL.....: 0.37		
Cadmium	**0.30 B**	**0.41**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N01AK**
		Dilution Factor: 0.7		MDL.....: 0.030		
Chromium	**10.8**	**0.83**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N01AL**
		Dilution Factor: 0.7		MDL.....: 0.17		
Silver	ND	0.83	mg/kg	SW846 6010B	04/20-04/22/11	MG3N01AM
		Dilution Factor: 0.7		MDL.....: 0.083		
Mercury	**0.036 B**	**0.096**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3N01AE**
		Dilution Factor: 0.81		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB65-CSA-02-0411

General Chemistry

Lot-Sample #...: A1D150470-013 **Work Order #...:** MG3N0 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:21 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-014 **Work Order #...:** MG3N11AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 5
% Moisture.....: 16 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	40	ug/kg	20
Acenaphthylene	ND	40	ug/kg	20
Anthracene	**110**	**40**	**ug/kg**	**20**
Benzo(a)anthracene	**150**	**40**	**ug/kg**	**20**
Benzo(a)pyrene	**110**	**40**	**ug/kg**	**20**
Benzo(b)fluoranthene	**140**	**40**	**ug/kg**	**20**
Benzo(ghi)perylene	**88**	**40**	**ug/kg**	**20**
Benzo(k)fluoranthene	**69**	**40**	**ug/kg**	**20**
Chrysene	**180**	**40**	**ug/kg**	**6.6**
Dibenz(a,h)anthracene	ND	40	ug/kg	20
Fluoranthene	**290**	**40**	**ug/kg**	**20**
Fluorene	**41**	**40**	**ug/kg**	**20**
Indeno(1,2,3-cd)pyrene	**59**	**40**	**ug/kg**	**20**
1-Methylnaphthalene	**900**	**40**	**ug/kg**	**20**
2-Methylnaphthalene	**1500**	**40**	**ug/kg**	**20**
Naphthalene	**920**	**40**	**ug/kg**	**20**
Phenanthrene	**490**	**40**	**ug/kg**	**20**
Pyrene	**270**	**40**	**ug/kg**	**20**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	34 DIL	(24 - 112)
2-Fluorobiphenyl	45 DIL	(34 - 110)
Terphenyl-d14	59 DIL	(41 - 119)
Phenol-d5	47 DIL	(28 - 110)
2-Fluorophenol	45 DIL	(26 - 110)
2,4,6-Tribromophenol	27 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-014 **Work Order #...:** MG3N11AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	55

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	71	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-014 **Work Order #...:** MG3N11AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**130**	**20**	**mg/kg**	**11**
C10-C20	**59**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-014 **Work Order #...:** MG3N11AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 16 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	16
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	89	(10 - 196)
Decachlorobiphenyl	112	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-014 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**27.6**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N11AF**
		Dilution Factor: 0.91		MDL.....: 0.33		
Lead	**25.7**	**0.33**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N11AG**
		Dilution Factor: 0.91		MDL.....: 0.21		
Barium	**122 J**	**21.7**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N11AJ**
		Dilution Factor: 0.91		MDL.....: 0.077		
Selenium	ND	0.54	mg/kg	SW846 6010B	04/20-04/22/11	MG3N11AH
		Dilution Factor: 0.91		MDL.....: 0.49		
Cadmium	**0.27 B**	**0.54**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N11AK**
		Dilution Factor: 0.91		MDL.....: 0.039		
Chromium	**10.5**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N11AL**
		Dilution Factor: 0.91		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/20-04/22/11	MG3N11AM
		Dilution Factor: 0.91		MDL.....: 0.11		
Mercury	**0.025 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3N11AE**
		Dilution Factor: 0.94		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB63-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-014 **Work Order #...:** MG3N1 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**83.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-015 **Work Order #...:** MG3N61AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 5
% Moisture.....: 18 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	41	ug/kg	20
Acenaphthylene	ND	41	ug/kg	20
Anthracene	**570**	**41**	**ug/kg**	**20**
Benzo(a)anthracene	**72**	**41**	**ug/kg**	**20**
Benzo(a)pyrene	**50**	**41**	**ug/kg**	**20**
Benzo(b)fluoranthene	**45**	**41**	**ug/kg**	**20**
Benzo(ghi)perylene	**82**	**41**	**ug/kg**	**20**
Benzo(k)fluoranthene	ND	41	ug/kg	20
Chrysene	**92**	**41**	**ug/kg**	**6.7**
Dibenz(a,h)anthracene	ND	41	ug/kg	20
Fluoranthene	**91**	**41**	**ug/kg**	**20**
Fluorene	**53**	**41**	**ug/kg**	**20**
Indeno(1,2,3-cd)pyrene	ND	41	ug/kg	20
1-Methylnaphthalene	**1800**	**41**	**ug/kg**	**20**
2-Methylnaphthalene	**2600**	**41**	**ug/kg**	**20**
Naphthalene	**1400**	**41**	**ug/kg**	**20**
Phenanthrene	**580**	**41**	**ug/kg**	**20**
Pyrene	**130**	**41**	**ug/kg**	**20**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	38 DIL	(24 - 112)
2-Fluorobiphenyl	48 DIL	(34 - 110)
Terphenyl-d14	65 DIL	(41 - 119)
Phenol-d5	51 DIL	(28 - 110)
2-Fluorophenol	48 DIL	(26 - 110)
2,4,6-Tribromophenol	42 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

GC Volatiles

Lot-Sample #...: A1D150470-015 **Work Order #...:** MG3N61AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	56

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-015 **Work Order #...:** MG3N61AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**55**	**20**	**mg/kg**	**11**
C10-C20	**21**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-015 **Work Order #...:** MG3N61AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 18 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	40	ug/kg	26
Aroclor 1221	ND	40	ug/kg	19
Aroclor 1232	ND	40	ug/kg	17
Aroclor 1242	ND	40	ug/kg	16
Aroclor 1248	ND	40	ug/kg	21
Aroclor 1254	ND	40	ug/kg	21
Aroclor 1260	ND	40	ug/kg	21

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	96	(10 - 196)
Decachlorobiphenyl	112	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

TOTAL Metals

Lot-Sample #...: A1D150470-015 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**9.6**	**0.97**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N61AF**
		Dilution Factor: 0.8		MDL.....: 0.29		
Lead	**17.4**	**0.29**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N61AG**
		Dilution Factor: 0.8		MDL.....: 0.18		
Barium	**69.3 J**	**19.4**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N61AJ**
		Dilution Factor: 0.8		MDL.....: 0.069		
Selenium	ND	0.49	mg/kg	SW846 6010B	04/20-04/22/11	MG3N61AH
		Dilution Factor: 0.8		MDL.....: 0.44		
Cadmium	ND	0.49	mg/kg	SW846 6010B	04/20-04/22/11	MG3N61AK
		Dilution Factor: 0.8		MDL.....: 0.035		
Chromium	**12.3**	**0.97**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N61AL**
		Dilution Factor: 0.8		MDL.....: 0.19		
Silver	ND	0.97	mg/kg	SW846 6010B	04/20-04/22/11	MG3N61AM
		Dilution Factor: 0.8		MDL.....: 0.097		
Mercury	**0.044 B**	**0.12**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3N61AE**
		Dilution Factor: 0.97		MDL.....: 0.018		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB66-CSA-02-0411

General Chemistry

Lot-Sample #...: A1D150470-015 **Work Order #...:** MG3N6 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-016 **Work Order #...:** MG3N71AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 5
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**56**	**39**	**ug/kg**	**19**
Acenaphthylene	ND	39	ug/kg	19
Anthracene	**160**	**39**	**ug/kg**	**19**
Benzo(a)anthracene	**240**	**39**	**ug/kg**	**19**
Benzo(a)pyrene	**190**	**39**	**ug/kg**	**19**
Benzo(b)fluoranthene	**260**	**39**	**ug/kg**	**19**
Benzo(ghi)perylene	**150**	**39**	**ug/kg**	**19**
Benzo(k)fluoranthene	**110**	**39**	**ug/kg**	**19**
Chrysene	**280**	**39**	**ug/kg**	**6.5**
Dibenz(a,h)anthracene	ND	39	ug/kg	19
Fluoranthene	**520**	**39**	**ug/kg**	**19**
Fluorene	**66**	**39**	**ug/kg**	**19**
Indeno(1,2,3-cd)pyrene	**95**	**39**	**ug/kg**	**19**
1-Methylnaphthalene	**770**	**39**	**ug/kg**	**19**
2-Methylnaphthalene	**1200**	**39**	**ug/kg**	**19**
Naphthalene	**620**	**39**	**ug/kg**	**19**
Phenanthrene	**690**	**39**	**ug/kg**	**19**
Pyrene	**410**	**39**	**ug/kg**	**19**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	41 DIL	(24 - 112)
2-Fluorobiphenyl	49 DIL	(34 - 110)
Terphenyl-d14	65 DIL	(41 - 119)
Phenol-d5	57 DIL	(28 - 110)
2-Fluorophenol	52 DIL	(26 - 110)
2,4,6-Tribromophenol	37 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-016 **Work Order #...:** MG3N71AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	84	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-016 **Work Order #...:** MG3N71AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**140**	**20**	**mg/kg**	**11**
C10-C20	**72**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-016 **Work Order #...:** MG3N71AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	16
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	88	(10 - 196)
Decachlorobiphenyl	98	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-016 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**16.9**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N71AF**
		Dilution Factor: 0.93		MDL.....: 0.33		
Lead	**18.4**	**0.33**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N71AG**
		Dilution Factor: 0.93		MDL.....: 0.21		
Barium	**64.9 J**	**21.8**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N71AJ**
		Dilution Factor: 0.93		MDL.....: 0.078		
Selenium	ND	0.55	mg/kg	SW846 6010B	04/20-04/22/11	MG3N71AH
		Dilution Factor: 0.93		MDL.....: 0.49		
Cadmium	**0.18 B**	**0.55**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N71AK**
		Dilution Factor: 0.93		MDL.....: 0.039		
Chromium	**12.1**	**1.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3N71AL**
		Dilution Factor: 0.93		MDL.....: 0.22		
Silver	ND	1.1	mg/kg	SW846 6010B	04/20-04/22/11	MG3N71AM
		Dilution Factor: 0.93		MDL.....: 0.11		
Mercury	**0.030 B**	**0.093**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3N71AE**
		Dilution Factor: 0.79		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-016 **Work Order #...:** MG3N7 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-017 **Work Order #...:** MG3PA1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.9	ug/kg	3.9
Acenaphthylene	ND	7.9	ug/kg	3.9
Anthracene	ND	7.9	ug/kg	3.9
Benzo(a)anthracene	ND	7.9	ug/kg	3.9
Benzo(a)pyrene	ND	7.9	ug/kg	3.9
Benzo(b)fluoranthene	ND	7.9	ug/kg	3.9
Benzo(ghi)perylene	ND	7.9	ug/kg	3.9
Benzo(k)fluoranthene	ND	7.9	ug/kg	3.9
Chrysene	**9.6**	**7.9**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.9	ug/kg	3.9
Fluoranthene	ND	7.9	ug/kg	3.9
Fluorene	ND	7.9	ug/kg	3.9
Indeno(1,2,3-cd)pyrene	ND	7.9	ug/kg	3.9
1-Methylnaphthalene	**40**	**7.9**	**ug/kg**	**3.9**
2-Methylnaphthalene	**60**	**7.9**	**ug/kg**	**3.9**
Naphthalene	**35**	**7.9**	**ug/kg**	**3.9**
Phenanthrene	**22**	**7.9**	**ug/kg**	**3.9**
Pyrene	ND	7.9	ug/kg	3.9

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	48	(24 - 112)
2-Fluorobiphenyl	51	(34 - 110)
Terphenyl-d14	63	(41 - 119)
Phenol-d5	50	(28 - 110)
2-Fluorophenol	56	(26 - 110)
2,4,6-Tribromophenol	27	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

GC Volatiles

Lot-Sample #...: A1D150470-017 **Work Order #...:** MG3PA1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-017 **Work Order #...:** MG3PA1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**29**	**20**	**mg/kg**	**11**
C10-C20	ND	20	mg/kg	11

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	39	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-017 **Work Order #...:** MG3PA1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	91	(10 - 196)
Decachlorobiphenyl	102	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

TOTAL Metals

Lot-Sample #...: A1D150470-017 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**11.1**	**0.96**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PA1AF**
		Dilution Factor: 0.81		MDL.....: 0.29		
Lead	**15.2**	**0.29**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PA1AG**
		Dilution Factor: 0.81		MDL.....: 0.18		
Barium	**70.1 J**	**19.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PA1AJ**
		Dilution Factor: 0.81		MDL.....: 0.068		
Selenium	ND	0.48	mg/kg	SW846 6010B	04/20-04/22/11	MG3PA1AH
		Dilution Factor: 0.81		MDL.....: 0.43		
Cadmium	ND	0.48	mg/kg	SW846 6010B	04/20-04/22/11	MG3PA1AK
		Dilution Factor: 0.81		MDL.....: 0.034		
Chromium	**11.9**	**0.96**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PA1AL**
		Dilution Factor: 0.81		MDL.....: 0.19		
Silver	ND	0.96	mg/kg	SW846 6010B	04/20-04/22/11	MG3PA1AM
		Dilution Factor: 0.81		MDL.....: 0.096		
Mercury	**0.033 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3PA1AE**
		Dilution Factor: 0.91		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB68-CSA-02-0411

General Chemistry

Lot-Sample #...: A1D150470-017 **Work Order #...:** MG3PA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-018 **Work Order #...:** MG3PC1AP **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 4
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	31	ug/kg	16
Acenaphthylene	ND	31	ug/kg	16
Anthracene	**42**	**31**	**ug/kg**	**16**
Benzo(a)anthracene	**87**	**31**	**ug/kg**	**16**
Benzo(a)pyrene	**72**	**31**	**ug/kg**	**16**
Benzo(b)fluoranthene	**40**	**31**	**ug/kg**	**16**
Benzo(ghi)perylene	**59**	**31**	**ug/kg**	**16**
Benzo(k)fluoranthene	**66**	**31**	**ug/kg**	**16**
Chrysene	**110**	**31**	**ug/kg**	**5.2**
Dibenz(a,h)anthracene	ND	31	ug/kg	16
Fluoranthene	**130**	**31**	**ug/kg**	**16**
Fluorene	ND	31	ug/kg	16
Indeno(1,2,3-cd)pyrene	**32**	**31**	**ug/kg**	**16**
1-Methylnaphthalene	**970**	**31**	**ug/kg**	**16**
2-Methylnaphthalene	**1500**	**31**	**ug/kg**	**16**
Naphthalene	**820**	**31**	**ug/kg**	**16**
Phenanthrene	**410**	**31**	**ug/kg**	**16**
Pyrene	**140**	**31**	**ug/kg**	**16**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	38 DIL	(24 - 112)
2-Fluorobiphenyl	44 DIL	(34 - 110)
Terphenyl-d14	59 DIL	(41 - 119)
Phenol-d5	47 DIL	(28 - 110)
2-Fluorophenol	49 DIL	(26 - 110)
2,4,6-Tribromophenol	23 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Volatiles

Lot-Sample #...: A1D150470-018 **Work Order #...:** MG3PC1AA **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	120	ug/kg	54

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	58	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-018 **Work Order #...:** MG3PC1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**170**	**20**	**mg/kg**	**11**
C10-C20	**150**	**20**	**mg/kg**	**11**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	49	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-018 **Work Order #...:** MG3PC1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	39	ug/kg	25
Aroclor 1221	ND	39	ug/kg	19
Aroclor 1232	ND	39	ug/kg	17
Aroclor 1242	ND	39	ug/kg	15
Aroclor 1248	ND	39	ug/kg	20
Aroclor 1254	ND	39	ug/kg	20
Aroclor 1260	ND	39	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	76	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

TOTAL Metals

Lot-Sample #...: A1D150470-018 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**15.9**	**1.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PC1AF**
		Dilution Factor: 1		MDL.....: 0.35		
Lead	**13.7**	**0.35**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PC1AG**
		Dilution Factor: 1		MDL.....: 0.22		
Barium	**67.5 J**	**23.6**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PC1AJ**
		Dilution Factor: 1		MDL.....: 0.084		
Selenium	ND	0.59	mg/kg	SW846 6010B	04/20-04/22/11	MG3PC1AH
		Dilution Factor: 1		MDL.....: 0.53		
Cadmium	**0.14 B**	**0.59**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PC1AK**
		Dilution Factor: 1		MDL.....: 0.042		
Chromium	**12.0**	**1.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PC1AL**
		Dilution Factor: 1		MDL.....: 0.24		
Silver	ND	1.2	mg/kg	SW846 6010B	04/20-04/22/11	MG3PC1AM
		Dilution Factor: 1		MDL.....: 0.12		
Mercury	**0.040 B**	**0.11**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3PC1AE**
		Dilution Factor: 0.97		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SB62-CSA-04-0411

General Chemistry

Lot-Sample #...: A1D150470-018 **Work Order #...:** MG3PC **Matrix.....:** SO
Date Sampled...: 04/13/11 13:04 **Date Received..:** 04/15/11
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**84.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

GC/MS Volatiles

Lot-Sample #...: A1D150470-019 **Work Order #...:** MG3PE1AC **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**10 J,B**	**23**	**ug/kg**	**7.3**
Benzene	ND	5.8	ug/kg	0.27
Bromodichloromethane	ND	5.8	ug/kg	0.33
Bromomethane	ND	12	ug/kg	0.63
2-Butanone	ND	23	ug/kg	1.6
Carbon disulfide	**0.89 J**	**5.8**	**ug/kg**	**0.51**
Carbon tetrachloride	ND	5.8	ug/kg	0.43
Chloroethane	ND	12	ug/kg	1.0
Chloroform	ND	5.8	ug/kg	0.34
Chloromethane	ND	12	ug/kg	0.48
Dichlorodifluoromethane	ND	12	ug/kg	0.58
1,1-Dichloroethane	ND	5.8	ug/kg	0.42
1,2-Dichloroethane	ND	5.8	ug/kg	0.40
cis-1,2-Dichloroethene	ND	2.9	ug/kg	0.42
trans-1,2-Dichloroethene	ND	2.9	ug/kg	0.48
1,1-Dichloroethene	ND	5.8	ug/kg	0.61
1,2-Dichloropropane	ND	5.8	ug/kg	0.80
cis-1,3-Dichloropropene	ND	5.8	ug/kg	0.40
n-Hexane	ND	5.8	ug/kg	1.4
Methylene chloride	**9.8 B**	**5.8**	**ug/kg**	**0.78**
Methyl tert-butyl ether (MTBE)	ND	23	ug/kg	0.50
1,1,1-Trichloroethane	ND	5.8	ug/kg	0.65
Trichloroethene	ND	5.8	ug/kg	0.49
Trichlorofluoromethane	ND	12	ug/kg	0.40
Vinyl chloride	ND	2.3	ug/kg	0.45

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(30 - 122)
1,2-Dichloroethane-d4	97	(39 - 128)
Toluene-d8	107	(33 - 134)
4-Bromofluorobenzene	128	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

GC/MS Volatiles

Lot-Sample #...: A1D150470-019 **Work Order #...:** MG3PE2AC **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1118255
Dilution Factor: 10
% Moisture.....: 14 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	58	ug/kg	3.8
Chlorobenzene	ND	58	ug/kg	3.8
Dibromochloromethane	ND	58	ug/kg	6.4
1,2-Dibromo-3-chloro-propane	ND	120	ug/kg	15
1,2-Dibromoethane	ND	58	ug/kg	5.8
1,2-Dichlorobenzene	ND	58	ug/kg	4.2
1,3-Dichlorobenzene	ND	58	ug/kg	4.1
1,4-Dichlorobenzene	ND	58	ug/kg	7.7
trans-1,3-Dichloropropene	ND	58	ug/kg	6.3
Ethylbenzene	ND	58	ug/kg	3.0
2-Hexanone	ND	230	ug/kg	7.3
Isopropylbenzene	ND	58	ug/kg	1.9
Styrene	ND	58	ug/kg	1.7
1,1,2,2-Tetrachloroethane	ND	58	ug/kg	4.0
Tetrachloroethene	ND	58	ug/kg	6.1
Toluene	ND	58	ug/kg	3.1
1,2,4-Trichloro-benzene	ND	58	ug/kg	3.1
1,1,2-Trichloroethane	ND	58	ug/kg	4.5
Xylenes (total)	ND	58	ug/kg	7.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	105	(39 - 128)
Toluene-d8	87	(33 - 134)
4-Bromofluorobenzene	87	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-019 **Work Order #...:** MG3PE1AN **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105331
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	7.8	ug/kg	3.8
Acenaphthylene	ND	7.8	ug/kg	3.8
Anthracene	**10**	**7.8**	**ug/kg**	**3.8**
Benzo(a)anthracene	**37**	**7.8**	**ug/kg**	**3.8**
Benzo(a)pyrene	**28**	**7.8**	**ug/kg**	**3.8**
Benzo(b)fluoranthene	**45**	**7.8**	**ug/kg**	**3.8**
Benzo(ghi)perylene	**24**	**7.8**	**ug/kg**	**3.8**
Benzo(k)fluoranthene	**20**	**7.8**	**ug/kg**	**3.8**
Chrysene	**45**	**7.8**	**ug/kg**	**1.3**
Dibenz(a,h)anthracene	ND	7.8	ug/kg	3.8
Fluoranthene	**89**	**7.8**	**ug/kg**	**3.8**
Fluorene	ND	7.8	ug/kg	3.8
Indeno(1,2,3-cd)pyrene	**16**	**7.8**	**ug/kg**	**3.8**
1-Methylnaphthalene	ND	7.8	ug/kg	3.8
2-Methylnaphthalene	ND	7.8	ug/kg	3.8
Naphthalene	ND	7.8	ug/kg	3.8
Phenanthrene	**53**	**7.8**	**ug/kg**	**3.8**
Pyrene	**65**	**7.8**	**ug/kg**	**3.8**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	50	(24 - 112)
2-Fluorobiphenyl	54	(34 - 110)
Terphenyl-d14	67	(41 - 119)
Phenol-d5	56	(28 - 110)
2-Fluorophenol	58	(26 - 110)
2,4,6-Tribromophenol	40	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

GC Semivolatiles

Lot-Sample #...: A1D150470-019 **Work Order #...:** MG3PE1AM **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 14 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	38	ug/kg	24
Aroclor 1221	ND	38	ug/kg	19
Aroclor 1232	ND	38	ug/kg	16
Aroclor 1242	ND	38	ug/kg	15
Aroclor 1248	ND	38	ug/kg	20
Aroclor 1254	ND	38	ug/kg	20
Aroclor 1260	ND	38	ug/kg	20

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	92	(10 - 196)
Decachlorobiphenyl	91	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

TOTAL Metals

Lot-Sample #...: A1D150470-019 **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**15.1**	**1.0**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AE**
		Dilution Factor: 0.89		MDL.....: 0.31		
Lead	**14.9**	**0.31**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AF**
		Dilution Factor: 0.89		MDL.....: 0.20		
Barium	**60.0 J**	**20.7**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AH**
		Dilution Factor: 0.89		MDL.....: 0.074		
Selenium	**0.55**	**0.52**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AG**
		Dilution Factor: 0.89		MDL.....: 0.47		
Cadmium	**0.29 B**	**0.52**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AJ**
		Dilution Factor: 0.89		MDL.....: 0.037		
Chromium	**13.6**	**1.0**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3PE1AK**
		Dilution Factor: 0.89		MDL.....: 0.21		
Silver	ND	1.0	mg/kg	SW846 6010B	04/20-04/22/11	MG3PE1AL
		Dilution Factor: 0.89		MDL.....: 0.10		
Mercury	ND	0.095	mg/kg	SW846 7471A	04/20-04/21/11	MG3PE1AD
		Dilution Factor: 0.82		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: LANDFILL BORING 2

General Chemistry

Lot-Sample #...: A1D150470-019 **Work Order #...:** MG3PE **Matrix.....:** SO
Date Sampled...: 04/13/11 14:58 **Date Received..:** 04/15/11
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.9**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: GW61-CSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-020 **Work Order #...:** MG3PK1AE **Matrix.....:** WG
Date Sampled...: 04/13/11 12:50 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108046
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(27 - 111)
2-Fluorobiphenyl	44	(28 - 110)
Terphenyl-d14	44	(37 - 119)
Phenol-d5	48	(10 - 110)
2-Fluorophenol	47	(10 - 110)
2,4,6-Tribromophenol	49	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: GW61-CSA-0411

GC Volatiles

Lot-Sample #...: A1D150470-020 **Work Order #...:** MG3PK1AA **Matrix.....:** WG
Date Sampled...: 04/13/11 12:50 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119100
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**50 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	84	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: GW61-CSA-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-020 **Work Order #...:** MG3PK1AC **Matrix.....:** WG
Date Sampled...: 04/13/11 12:50 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108051
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**370 J**	**500**	**ug/L**	**240**
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	45	(10 - 110)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: GW61-CSA-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-020 **Work Order #...:** MG3PK1AD **Matrix.....:** WG
Date Sampled...: 04/13/11 12:50 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108044
Dilution Factor: 1 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	0.50	ug/L	0.17
Aroclor 1221	ND	0.50	ug/L	0.13
Aroclor 1232	ND	0.50	ug/L	0.16
Aroclor 1242	ND	0.50	ug/L	0.22
Aroclor 1248	ND	0.50	ug/L	0.10
Aroclor 1254	ND	0.50	ug/L	0.16
Aroclor 1260	ND	0.50	ug/L	0.17

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	54	(27 - 130)
Decachlorobiphenyl	13	(10 - 127)

Ohio Environmental Protection Agency

Client Sample ID: SD04-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-021 **Work Order #...:** MG3PQ1AC **Matrix.....:** SO
Date Sampled...: 04/14/11 10:40 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 25 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**14 J,B**	**27**	**ug/kg**	**8.4**
Benzene	ND	6.7	ug/kg	0.31
Bromodichloromethane	ND	6.7	ug/kg	0.37
Bromomethane	ND	13	ug/kg	0.72
2-Butanone	**4.3 J**	**27**	**ug/kg**	**1.9**
Carbon disulfide	**0.86 J**	**6.7**	**ug/kg**	**0.59**
Carbon tetrachloride	ND	6.7	ug/kg	0.49
Chloroethane	ND	13	ug/kg	1.2
Chloroform	ND	6.7	ug/kg	0.39
Chloromethane	ND	13	ug/kg	0.55
Dichlorodifluoromethane	ND	13	ug/kg	0.67
1,1-Dichloroethane	ND	6.7	ug/kg	0.48
1,2-Dichloroethane	ND	6.7	ug/kg	0.45
cis-1,2-Dichloroethene	ND	3.3	ug/kg	0.48
trans-1,2-Dichloroethene	ND	3.3	ug/kg	0.55
1,1-Dichloroethene	ND	6.7	ug/kg	0.70
1,2-Dichloropropane	ND	6.7	ug/kg	0.92
cis-1,3-Dichloropropene	ND	6.7	ug/kg	0.45
n-Hexane	ND	6.7	ug/kg	1.6
Methylene chloride	**5.5 J,B**	**6.7**	**ug/kg**	**0.90**
Methyl tert-butyl ether (MTBE)	ND	27	ug/kg	0.58
1,1,1-Trichloroethane	ND	6.7	ug/kg	0.75
Trichloroethene	ND	6.7	ug/kg	0.56
Trichlorofluoromethane	ND	13	ug/kg	0.45
Vinyl chloride	ND	2.7	ug/kg	0.52

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
1,2-Dichloroethane-d4	91	(39 - 128)
Toluene-d8	97	(33 - 134)
4-Bromofluorobenzene	116	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD04-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-021 **Work Order #...:** MG3PQ2AC **Matrix.....:** SO
Date Sampled...: 04/14/11 10:40 **Date Received..:** 04/15/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1118255
Dilution Factor: 10
% Moisture.....: 25 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	67	ug/kg	4.4
Chlorobenzene	ND	67	ug/kg	4.4
Dibromochloromethane	ND	67	ug/kg	7.4
1,2-Dibromo-3-chloro-propane	ND	130	ug/kg	17
1,2-Dibromoethane	ND	67	ug/kg	6.7
1,2-Dichlorobenzene	ND	67	ug/kg	4.8
1,3-Dichlorobenzene	ND	67	ug/kg	4.7
1,4-Dichlorobenzene	ND	67	ug/kg	8.8
trans-1,3-Dichloropropene	ND	67	ug/kg	7.2
Ethylbenzene	ND	67	ug/kg	3.5
2-Hexanone	ND	270	ug/kg	8.4
Isopropylbenzene	ND	67	ug/kg	2.1
Styrene	ND	67	ug/kg	2.0
1,1,2,2-Tetrachloroethane	ND	67	ug/kg	4.5
Tetrachloroethene	ND	67	ug/kg	7.0
Toluene	ND	67	ug/kg	3.6
1,2,4-Trichloro-benzene	ND	67	ug/kg	3.6
1,1,2-Trichloroethane	ND	67	ug/kg	5.2
Xylenes (total)	ND	67	ug/kg	9.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	82	(30 - 122)
1,2-Dichloroethane-d4	99	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD04-SSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-021 **Work Order #...:** MG3PQ1AD **Matrix.....:** SO
Date Sampled...: 04/14/11 10:40 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 50
% Moisture.....: 25 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**2800**	**450**	**ug/kg**	**220**
Acenaphthylene	ND	450	ug/kg	220
Anthracene	**7000**	**450**	**ug/kg**	**220**
Benzo(a)anthracene	**18000**	**450**	**ug/kg**	**220**
Benzo(a)pyrene	**17000**	**450**	**ug/kg**	**220**
Benzo(b)fluoranthene	**21000**	**450**	**ug/kg**	**220**
Benzo(ghi)perylene	**11000**	**450**	**ug/kg**	**220**
Benzo(k)fluoranthene	**12000**	**450**	**ug/kg**	**220**
Chrysene	**24000**	**450**	**ug/kg**	**74**
Dibenz(a,h)anthracene	**2700**	**450**	**ug/kg**	**220**
Fluoranthene	**61000**	**450**	**ug/kg**	**220**
Fluorene	**2700**	**450**	**ug/kg**	**220**
Indeno(1,2,3-cd)pyrene	**9800**	**450**	**ug/kg**	**220**
1-Methylnaphthalene	ND	450	ug/kg	220
2-Methylnaphthalene	**670**	**450**	**ug/kg**	**220**
Naphthalene	**1200**	**450**	**ug/kg**	**220**
Phenanthrene	**35000**	**450**	**ug/kg**	**220**
Pyrene	**40000**	**450**	**ug/kg**	**220**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	0.0 DIL,*	(24 - 112)
2-Fluorobiphenyl	0.0 DIL,*	(34 - 110)
Terphenyl-d14	0.0 DIL,*	(41 - 119)
Phenol-d5	75 DIL	(28 - 110)
2-Fluorophenol	0.0 DIL,*	(26 - 110)
2,4,6-Tribromophenol	0.0 DIL,*	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD04-SSA-0411

General Chemistry

Lot-Sample #...: A1D150470-021 **Work Order #...:** MG3PQ **Matrix.....:** SO
Date Sampled...: 04/14/11 10:40 **Date Received..:** 04/15/11
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-022 **Work Order #...:** MG3PT1AC **Matrix.....:** SO
Date Sampled...: 04/14/11 14:28 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 52 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**27 J,B**	**42**	**ug/kg**	**13**
Benzene	ND	10	ug/kg	0.48
Bromodichloromethane	ND	10	ug/kg	0.58
Bromoform	ND	10	ug/kg	0.69
Bromomethane	**4.6 J**	**21**	**ug/kg**	**1.1**
2-Butanone	**5.9 J**	**42**	**ug/kg**	**2.9**
Carbon disulfide	ND	10	ug/kg	0.91
Carbon tetrachloride	ND	10	ug/kg	0.77
Chlorobenzene	ND	10	ug/kg	0.69
Dibromochloromethane	ND	10	ug/kg	1.1
Chloroethane	ND	21	ug/kg	1.8
Chloroform	ND	10	ug/kg	0.60
Chloromethane	ND	21	ug/kg	0.85
1,2-Dibromoethane	ND	10	ug/kg	1.0
Dichlorodifluoromethane	ND	21	ug/kg	1.0
1,1-Dichloroethane	ND	10	ug/kg	0.75
1,2-Dichloroethane	ND	10	ug/kg	0.71
cis-1,2-Dichloroethene	ND	5.2	ug/kg	0.75
trans-1,2-Dichloroethene	ND	5.2	ug/kg	0.85
1,1-Dichloroethene	ND	10	ug/kg	1.1
1,2-Dichloropropane	ND	10	ug/kg	1.4
cis-1,3-Dichloropropene	ND	10	ug/kg	0.71
trans-1,3-Dichloropropene	ND	10	ug/kg	1.1
Ethylbenzene	ND	10	ug/kg	0.54
n-Hexane	ND	10	ug/kg	2.5
2-Hexanone	ND	42	ug/kg	1.3
Isopropylbenzene	ND	10	ug/kg	0.33
Methylene chloride	**6.1 J,B**	**10**	**ug/kg**	**1.4**
4-Methyl-2-pentanone	ND	42	ug/kg	1.1
Methyl tert-butyl ether (MTBE)	ND	42	ug/kg	0.89
Styrene	ND	10	ug/kg	0.31
Tetrachloroethene	ND	10	ug/kg	1.1
Toluene	ND	10	ug/kg	0.56
1,1,1-Trichloroethane	ND	10	ug/kg	1.2
1,1,2-Trichloroethane	ND	10	ug/kg	0.81
Trichloroethene	ND	10	ug/kg	0.87
Trichlorofluoromethane	ND	21	ug/kg	0.71

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Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-022 **Work Order #...:** MG3PT1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	4.2	ug/kg	0.81
Xylenes (total)	ND	10	ug/kg	1.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	92	(39 - 128)
Toluene-d8	99	(33 - 134)
4-Bromofluorobenzene	117	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-022 **Work Order #...:** MG3PT2AC **Matrix.....:** SO
Date Sampled...: 04/14/11 14:28 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1118325
Dilution Factor: 5
% Moisture.....: 52 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	100	ug/kg	13
1,2-Dichlorobenzene	ND	52	ug/kg	3.7
1,3-Dichlorobenzene	ND	52	ug/kg	3.6
1,4-Dichlorobenzene	ND	52	ug/kg	6.9
1,1,2,2-Tetrachloroethane	ND	52	ug/kg	3.5
1,2,4-Trichloro-benzene	ND	52	ug/kg	2.8

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	98	(39 - 128)
Toluene-d8	92	(33 - 134)
4-Bromofluorobenzene	102	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-022 **Work Order #...:** MG3PT1AD **Matrix.....:** SO
Date Sampled...: 04/14/11 14:28 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105334
Dilution Factor: 2.5
% Moisture.....: 52 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	35	ug/kg	17
Acenaphthylene	ND	35	ug/kg	17
Anthracene	**180**	**35**	**ug/kg**	**17**
Benzo(a)anthracene	**1300**	**35**	**ug/kg**	**17**
Benzo(a)pyrene	**1700**	**35**	**ug/kg**	**17**
Benzo(b)fluoranthene	**2700**	**35**	**ug/kg**	**17**
Benzo(ghi)perylene	**1300**	**35**	**ug/kg**	**17**
Benzo(k)fluoranthene	**1400**	**35**	**ug/kg**	**17**
Chrysene	**1900**	**35**	**ug/kg**	**5.7**
Dibenz(a,h)anthracene	ND	35	ug/kg	17
Fluoranthene	**3000**	**35**	**ug/kg**	**17**
Fluorene	**39**	**35**	**ug/kg**	**17**
Indeno(1,2,3-cd)pyrene	**1100**	**35**	**ug/kg**	**17**
1-Methylnaphthalene	ND	35	ug/kg	17
2-Methylnaphthalene	ND	35	ug/kg	17
Naphthalene	ND	35	ug/kg	17
Phenanthrene	**800**	**35**	**ug/kg**	**17**
Pyrene	**2700**	**35**	**ug/kg**	**17**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	38 DIL	(24 - 112)
2-Fluorobiphenyl	49 DIL	(34 - 110)
Terphenyl-d14	63 DIL	(41 - 119)
Phenol-d5	45 DIL	(28 - 110)
2-Fluorophenol	46 DIL	(26 - 110)
2,4,6-Tribromophenol	40 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

General Chemistry

Lot-Sample #...: A1D150470-022 **Work Order #...:** MG3PT **Matrix.....:** SO
Date Sampled...: 04/14/11 14:28 **Date Received..:** 04/15/11
% Moisture.....: 52

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**48.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD06-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-023 **Work Order #...:** MG3PV1AC **Matrix.....:** SO
Date Sampled...: 04/14/11 12:30 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1
% Moisture.....: 32 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**21 J,B**	**29**	**ug/kg**	**9.2**
Benzene	ND	7.3	ug/kg	0.34
Bromodichloromethane	ND	7.3	ug/kg	0.41
Bromoform	ND	7.3	ug/kg	0.48
Bromomethane	ND	15	ug/kg	0.79
2-Butanone	**5.1 J**	**29**	**ug/kg**	**2.1**
Carbon disulfide	**0.87 J**	**7.3**	**ug/kg**	**0.65**
Carbon tetrachloride	ND	7.3	ug/kg	0.54
Chlorobenzene	ND	7.3	ug/kg	0.48
Dibromochloromethane	ND	7.3	ug/kg	0.81
Chloroethane	ND	15	ug/kg	1.3
Chloroform	ND	7.3	ug/kg	0.43
Chloromethane	ND	15	ug/kg	0.60
1,2-Dibromo-3-chloro-propane	ND	15	ug/kg	1.9
1,2-Dibromoethane	ND	7.3	ug/kg	0.73
1,2-Dichlorobenzene	ND	7.3	ug/kg	0.53
1,3-Dichlorobenzene	ND	7.3	ug/kg	0.51
1,4-Dichlorobenzene	ND	7.3	ug/kg	0.97
Dichlorodifluoromethane	ND	15	ug/kg	0.73
1,1-Dichloroethane	ND	7.3	ug/kg	0.53
1,2-Dichloroethane	ND	7.3	ug/kg	0.50
cis-1,2-Dichloroethene	ND	3.7	ug/kg	0.53
trans-1,2-Dichloroethene	ND	3.7	ug/kg	0.60
1,1-Dichloroethene	ND	7.3	ug/kg	0.76
1,2-Dichloropropane	ND	7.3	ug/kg	1.0
cis-1,3-Dichloropropene	ND	7.3	ug/kg	0.50
trans-1,3-Dichloropropene	ND	7.3	ug/kg	0.79
Ethylbenzene	ND	7.3	ug/kg	0.38
n-Hexane	ND	7.3	ug/kg	1.8
2-Hexanone	ND	29	ug/kg	0.92
Isopropylbenzene	ND	7.3	ug/kg	0.23
Methylene chloride	**4.5 J,B**	**7.3**	**ug/kg**	**0.98**
4-Methyl-2-pentanone	ND	29	ug/kg	0.79
Methyl tert-butyl ether (MTBE)	ND	29	ug/kg	0.63
Styrene	ND	7.3	ug/kg	0.22
1,1,2,2-Tetrachloroethane	ND	7.3	ug/kg	0.50

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Ohio Environmental Protection Agency

Client Sample ID: SD06-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-023 **Work Order #...:** MG3PV1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	7.3	ug/kg	0.76
Toluene	ND	7.3	ug/kg	0.40
1,2,4-Trichloro-benzene	ND	7.3	ug/kg	0.40
1,1,1-Trichloroethane	ND	7.3	ug/kg	0.82
1,1,2-Trichloroethane	ND	7.3	ug/kg	0.57
Trichloroethene	ND	7.3	ug/kg	0.62
Trichlorofluoromethane	ND	15	ug/kg	0.50
Vinyl chloride	ND	2.9	ug/kg	0.57
Xylenes (total)	ND	7.3	ug/kg	0.98

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	93	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	104	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD06-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-023 **Work Order #...:** MG3PV1AD **Matrix.....:** SO
Date Sampled...: 04/14/11 12:30 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 2
% Moisture.....: 32 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**34**	**20**	**ug/kg**	**9.7**
Acenaphthylene	ND	20	ug/kg	9.7
Anthracene	**110**	**20**	**ug/kg**	**9.7**
Benzo(a)anthracene	**720**	**20**	**ug/kg**	**9.7**
Benzo(a)pyrene	**950**	**20**	**ug/kg**	**9.7**
Benzo(b)fluoranthene	**1400**	**20**	**ug/kg**	**9.7**
Benzo(ghi)perylene	**850**	**20**	**ug/kg**	**9.7**
Benzo(k)fluoranthene	**680**	**20**	**ug/kg**	**9.7**
Chrysene	**1100**	**20**	**ug/kg**	**3.2**
Dibenz(a,h)anthracene	ND	20	ug/kg	9.7
Fluoranthene	**2200**	**20**	**ug/kg**	**9.7**
Fluorene	**37**	**20**	**ug/kg**	**9.7**
Indeno(1,2,3-cd)pyrene	**720**	**20**	**ug/kg**	**9.7**
1-Methylnaphthalene	ND	20	ug/kg	9.7
2-Methylnaphthalene	ND	20	ug/kg	9.7
Naphthalene	ND	20	ug/kg	9.7
Phenanthrene	**740**	**20**	**ug/kg**	**9.7**
Pyrene	**1700**	**20**	**ug/kg**	**9.7**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	45 DIL	(24 - 112)
2-Fluorobiphenyl	52 DIL	(34 - 110)
Terphenyl-d14	66 DIL	(41 - 119)
Phenol-d5	54 DIL	(28 - 110)
2-Fluorophenol	57 DIL	(26 - 110)
2,4,6-Tribromophenol	55 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD06-LAN-0411

General Chemistry

Lot-Sample #...: A1D150470-023 **Work Order #...:** MG3PV **Matrix.....:** SO
Date Sampled...: 04/14/11 12:30 **Date Received..:** 04/15/11
% Moisture.....: 32

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**68.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P01AC **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	28	ug/kg	8.7
Benzene	ND	6.9	ug/kg	0.32
Bromodichloromethane	ND	6.9	ug/kg	0.39
Bromoform	ND	6.9	ug/kg	0.46
Bromomethane	ND	14	ug/kg	0.75
2-Butanone	ND	28	ug/kg	1.9
Carbon disulfide	ND	6.9	ug/kg	0.61
Carbon tetrachloride	ND	6.9	ug/kg	0.51
Chlorobenzene	ND	6.9	ug/kg	0.46
Dibromochloromethane	ND	6.9	ug/kg	0.76
Chloroethane	ND	14	ug/kg	1.2
Chloroform	ND	6.9	ug/kg	0.40
Chloromethane	ND	14	ug/kg	0.57
1,2-Dibromoethane	ND	6.9	ug/kg	0.69
Dichlorodifluoromethane	ND	14	ug/kg	0.69
1,1-Dichloroethane	ND	6.9	ug/kg	0.50
1,2-Dichloroethane	ND	6.9	ug/kg	0.47
cis-1,2-Dichloroethene	ND	3.5	ug/kg	0.50
trans-1,2-Dichloroethene	ND	3.5	ug/kg	0.57
1,1-Dichloroethene	ND	6.9	ug/kg	0.72
1,2-Dichloropropane	ND	6.9	ug/kg	0.95
cis-1,3-Dichloropropene	ND	6.9	ug/kg	0.47
trans-1,3-Dichloropropene	ND	6.9	ug/kg	0.75
Ethylbenzene	ND	6.9	ug/kg	0.36
n-Hexane	ND	6.9	ug/kg	1.7
2-Hexanone	ND	28	ug/kg	0.87
Isopropylbenzene	ND	6.9	ug/kg	0.22
Methylene chloride	**2.2 J,B**	**6.9**	**ug/kg**	**0.93**
4-Methyl-2-pentanone	ND	28	ug/kg	0.75
Methyl tert-butyl ether (MTBE)	ND	28	ug/kg	0.59
Styrene	ND	6.9	ug/kg	0.21
Tetrachloroethene	ND	6.9	ug/kg	0.72
Toluene	ND	6.9	ug/kg	0.37
1,1,1-Trichloroethane	ND	6.9	ug/kg	0.77
1,1,2-Trichloroethane	ND	6.9	ug/kg	0.54
Trichloroethene	ND	6.9	ug/kg	0.58
Trichlorofluoromethane	ND	14	ug/kg	0.47

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Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P01AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	2.8	ug/kg	0.54
Xylenes (total)	ND	6.9	ug/kg	0.93

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(30 - 122)
1,2-Dichloroethane-d4	100	(39 - 128)
Toluene-d8	110	(33 - 134)
4-Bromofluorobenzene	122	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P02AC **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1118255
Dilution Factor: 10
% Moisture.....: 28 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Bromoform	ND	69	ug/kg	4.6
Chlorobenzene	ND	69	ug/kg	4.6
Dibromochloromethane	ND	69	ug/kg	7.6
1,2-Dibromo-3-chloro-propane	ND	140	ug/kg	18
1,2-Dibromoethane	ND	69	ug/kg	6.9
1,2-Dichlorobenzene	ND	69	ug/kg	5.0
1,3-Dichlorobenzene	ND	69	ug/kg	4.8
1,4-Dichlorobenzene	ND	69	ug/kg	9.1
trans-1,3-Dichloropropene	ND	69	ug/kg	7.5
Ethylbenzene	ND	69	ug/kg	3.6
2-Hexanone	ND	280	ug/kg	8.7
Isopropylbenzene	ND	69	ug/kg	2.2
Styrene	ND	69	ug/kg	2.1
1,1,2,2-Tetrachloroethane	ND	69	ug/kg	4.7
Tetrachloroethene	ND	69	ug/kg	7.2
Toluene	ND	69	ug/kg	3.7
1,2,4-Trichloro-benzene	ND	69	ug/kg	3.7
1,1,2-Trichloroethane	ND	69	ug/kg	5.4
Xylenes (total)	ND	69	ug/kg	9.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(30 - 122)
1,2-Dichloroethane-d4	101	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	85	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P01AN **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	9.2	ug/kg	4.6
Acenaphthylene	ND	9.2	ug/kg	4.6
Anthracene	ND	9.2	ug/kg	4.6
Benzo(a)anthracene	ND	9.2	ug/kg	4.6
Benzo(a)pyrene	ND	9.2	ug/kg	4.6
Benzo(b)fluoranthene	ND	9.2	ug/kg	4.6
Benzo(ghi)perylene	ND	9.2	ug/kg	4.6
Benzo(k)fluoranthene	ND	9.2	ug/kg	4.6
Chrysene	ND	9.2	ug/kg	1.5
Dibenz(a,h)anthracene	ND	9.2	ug/kg	4.6
Fluoranthene	ND	9.2	ug/kg	4.6
Fluorene	ND	9.2	ug/kg	4.6
Indeno(1,2,3-cd)pyrene	ND	9.2	ug/kg	4.6
1-Methylnaphthalene	ND	9.2	ug/kg	4.6
2-Methylnaphthalene	ND	9.2	ug/kg	4.6
Naphthalene	ND	9.2	ug/kg	4.6
Phenanthrene	ND	9.2	ug/kg	4.6
Pyrene	ND	9.2	ug/kg	4.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	46	(24 - 112)
2-Fluorobiphenyl	45	(34 - 110)
Terphenyl-d14	59	(41 - 119)
Phenol-d5	49	(28 - 110)
2-Fluorophenol	52	(26 - 110)
2,4,6-Tribromophenol	35	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P01AM **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	46	ug/kg	29
Aroclor 1221	ND	46	ug/kg	22
Aroclor 1232	ND	46	ug/kg	19
Aroclor 1242	ND	46	ug/kg	18
Aroclor 1248	ND	46	ug/kg	23
Aroclor 1254	ND	46	ug/kg	23
Aroclor 1260	ND	46	ug/kg	23

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(10 - 196)
Decachlorobiphenyl	126	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-024 **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
% Moisture.....: 28

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**10.8**	**1.4**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P01AE**
		Dilution Factor: 1		MDL.....: 0.41		
Lead	**13.2**	**0.41**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P01AF**
		Dilution Factor: 1		MDL.....: 0.26		
Barium	**66.2 J**	**27.6**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P01AH**
		Dilution Factor: 1		MDL.....: 0.098		
Selenium	ND	0.69	mg/kg	SW846 6010B	04/20-04/22/11	MG3P01AG
		Dilution Factor: 1		MDL.....: 0.62		
Cadmium	**0.14 B**	**0.69**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P01AJ**
		Dilution Factor: 1		MDL.....: 0.050		
Chromium	**15.5**	**1.4**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P01AK**
		Dilution Factor: 1		MDL.....: 0.28		
Silver	ND	1.4	mg/kg	SW846 6010B	04/20-04/22/11	MG3P01AL
		Dilution Factor: 1		MDL.....: 0.14		
Mercury	ND	0.10	mg/kg	SW846 7471A	04/20-04/21/11	MG3P01AD
		Dilution Factor: 0.73		MDL.....: 0.015		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD07-LAN-0411

General Chemistry

Lot-Sample #...: A1D150470-024 **Work Order #...:** MG3P0 **Matrix.....:** SO
Date Sampled...: 04/14/11 12:10 **Date Received..:** 04/15/11
% Moisture.....: 28

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**72.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-025 **Work Order #...:** MG3P51AC **Matrix.....:** SO
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**11 J,B**	**26**	**ug/kg**	**8.3**
Benzene	ND	6.6	ug/kg	0.30
Bromodichloromethane	ND	6.6	ug/kg	0.37
Bromoform	ND	6.6	ug/kg	0.43
Bromomethane	ND	13	ug/kg	0.71
2-Butanone	ND	26	ug/kg	1.8
Carbon disulfide	ND	6.6	ug/kg	0.58
Carbon tetrachloride	ND	6.6	ug/kg	0.49
Chlorobenzene	ND	6.6	ug/kg	0.43
Dibromochloromethane	ND	6.6	ug/kg	0.72
Chloroethane	ND	13	ug/kg	1.1
Chloroform	ND	6.6	ug/kg	0.38
Chloromethane	ND	13	ug/kg	0.54
1,2-Dibromo-3-chloro-propane	ND	13	ug/kg	1.7
1,2-Dibromoethane	ND	6.6	ug/kg	0.66
1,2-Dichlorobenzene	ND	6.6	ug/kg	0.47
1,3-Dichlorobenzene	ND	6.6	ug/kg	0.46
1,4-Dichlorobenzene	ND	6.6	ug/kg	0.87
Dichlorodifluoromethane	ND	13	ug/kg	0.66
1,1-Dichloroethane	ND	6.6	ug/kg	0.47
1,2-Dichloroethane	ND	6.6	ug/kg	0.45
cis-1,2-Dichloroethene	ND	3.3	ug/kg	0.47
trans-1,2-Dichloroethene	ND	3.3	ug/kg	0.54
1,1-Dichloroethene	ND	6.6	ug/kg	0.68
1,2-Dichloropropane	ND	6.6	ug/kg	0.91
cis-1,3-Dichloropropene	ND	6.6	ug/kg	0.45
trans-1,3-Dichloropropene	ND	6.6	ug/kg	0.71
Ethylbenzene	ND	6.6	ug/kg	0.34
n-Hexane	ND	6.6	ug/kg	1.6
2-Hexanone	ND	26	ug/kg	0.83
Isopropylbenzene	ND	6.6	ug/kg	0.21
Methylene chloride	**3.2 J,B**	**6.6**	**ug/kg**	**0.88**
4-Methyl-2-pentanone	ND	26	ug/kg	0.71
Methyl tert-butyl ether (MTBE)	ND	26	ug/kg	0.56
Styrene	ND	6.6	ug/kg	0.20
1,1,2,2-Tetrachloroethane	ND	6.6	ug/kg	0.45

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Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-025 **Work Order #...:** MG3P51AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.6	ug/kg	0.68
Toluene	ND	6.6	ug/kg	0.35
1,2,4-Trichloro-benzene	ND	6.6	ug/kg	0.35
1,1,1-Trichloroethane	ND	6.6	ug/kg	0.74
1,1,2-Trichloroethane	ND	6.6	ug/kg	0.51
Trichloroethene	ND	6.6	ug/kg	0.55
Trichlorofluoromethane	ND	13	ug/kg	0.45
Vinyl chloride	ND	2.6	ug/kg	0.51
Xylenes (total)	ND	6.6	ug/kg	0.88

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	93	(39 - 128)
Toluene-d8	96	(33 - 134)
4-Bromofluorobenzene	106	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-025 **Work Order #...:** MG3P51AN **Matrix.....:** SO
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 4
% Moisture.....: 24 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**170**	**35**	**ug/kg**	**17**
Acenaphthylene	ND	35	ug/kg	17
Anthracene	**360**	**35**	**ug/kg**	**17**
Benzo(a)anthracene	**970**	**35**	**ug/kg**	**17**
Benzo(a)pyrene	**950**	**35**	**ug/kg**	**17**
Benzo(b)fluoranthene	**1300**	**35**	**ug/kg**	**17**
Benzo(ghi)perylene	**640**	**35**	**ug/kg**	**17**
Benzo(k)fluoranthene	**640**	**35**	**ug/kg**	**17**
Chrysene	**1100**	**35**	**ug/kg**	**5.8**
Dibenz(a,h)anthracene	ND	35	ug/kg	17
Fluoranthene	**2600**	**35**	**ug/kg**	**17**
Fluorene	**160**	**35**	**ug/kg**	**17**
Indeno(1,2,3-cd)pyrene	**540**	**35**	**ug/kg**	**17**
1-Methylnaphthalene	ND	35	ug/kg	17
2-Methylnaphthalene	**54**	**35**	**ug/kg**	**17**
Naphthalene	**55**	**35**	**ug/kg**	**17**
Phenanthrene	**1800**	**35**	**ug/kg**	**17**
Pyrene	**1900**	**35**	**ug/kg**	**17**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	41 DIL	(24 - 112)
2-Fluorobiphenyl	49 DIL	(34 - 110)
Terphenyl-d14	63 DIL	(41 - 119)
Phenol-d5	48 DIL	(28 - 110)
2-Fluorophenol	49 DIL	(26 - 110)
2,4,6-Tribromophenol	40 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-025 **Work Order #...:** MG3P51AM **Matrix.....:** SO
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1109047
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	43	ug/kg	28
Aroclor 1221	ND	43	ug/kg	21
Aroclor 1232	ND	43	ug/kg	18
Aroclor 1242	ND	43	ug/kg	17
Aroclor 1248	ND	43	ug/kg	22
Aroclor 1254	ND	43	ug/kg	22
Aroclor 1260	ND	43	ug/kg	22

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	125	(10 - 196)
Decachlorobiphenyl	137	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-025 **Matrix.....:** SO
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**22.2**	**1.3**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P51AE**
		Dilution Factor: 0.96		MDL.....: 0.38		
Lead	**24.4**	**0.38**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P51AF**
		Dilution Factor: 0.96		MDL.....: 0.24		
Barium	**51.0 J**	**25.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P51AH**
		Dilution Factor: 0.96		MDL.....: 0.089		
Selenium	ND	0.63	mg/kg	SW846 6010B	04/20-04/22/11	MG3P51AG
		Dilution Factor: 0.96		MDL.....: 0.57		
Cadmium	**0.28 B**	**0.63**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P51AJ**
		Dilution Factor: 0.96		MDL.....: 0.045		
Chromium	**11.8**	**1.3**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P51AK**
		Dilution Factor: 0.96		MDL.....: 0.25		
Silver	ND	1.3	mg/kg	SW846 6010B	04/20-04/22/11	MG3P51AL
		Dilution Factor: 0.96		MDL.....: 0.13		
Mercury	**0.020 B**	**0.12**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3P51AD**
		Dilution Factor: 0.95		MDL.....: 0.019		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD08-LAN-0411

General Chemistry

Lot-Sample #...: A1D150470-025 **Work Order #...:** MG3P5 **Matrix.....:** SO
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**76.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1108157**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-026 **Work Order #...:** MG3P61AC **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1
% Moisture.....: 43 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**12 J,B**	**35**	**ug/kg**	**11**
Benzene	ND	8.8	ug/kg	0.40
Bromodichloromethane	ND	8.8	ug/kg	0.49
Bromoform	ND	8.8	ug/kg	0.58
Bromomethane	ND	18	ug/kg	0.95
2-Butanone	ND	35	ug/kg	2.5
Carbon disulfide	ND	8.8	ug/kg	0.77
Carbon tetrachloride	ND	8.8	ug/kg	0.65
Chlorobenzene	ND	8.8	ug/kg	0.58
Dibromochloromethane	ND	8.8	ug/kg	0.96
Chloroethane	ND	18	ug/kg	1.5
Chloroform	ND	8.8	ug/kg	0.51
Chloromethane	ND	18	ug/kg	0.72
1,2-Dibromoethane	ND	8.8	ug/kg	0.88
Dichlorodifluoromethane	ND	18	ug/kg	0.88
1,1-Dichloroethane	ND	8.8	ug/kg	0.63
1,2-Dichloroethane	ND	8.8	ug/kg	0.60
cis-1,2-Dichloroethene	ND	4.4	ug/kg	0.63
trans-1,2-Dichloroethene	ND	4.4	ug/kg	0.72
1,1-Dichloroethene	ND	8.8	ug/kg	0.91
1,2-Dichloropropane	ND	8.8	ug/kg	1.2
cis-1,3-Dichloropropene	ND	8.8	ug/kg	0.60
trans-1,3-Dichloropropene	ND	8.8	ug/kg	0.95
Ethylbenzene	ND	8.8	ug/kg	0.46
n-Hexane	ND	8.8	ug/kg	2.1
2-Hexanone	ND	35	ug/kg	1.1
Isopropylbenzene	ND	8.8	ug/kg	0.28
Methylene chloride	**2.3 J,B**	**8.8**	**ug/kg**	**1.2**
4-Methyl-2-pentanone	ND	35	ug/kg	0.95
Methyl tert-butyl ether (MTBE)	ND	35	ug/kg	0.75
Styrene	ND	8.8	ug/kg	0.26
Tetrachloroethene	ND	8.8	ug/kg	0.91
Toluene	ND	8.8	ug/kg	0.47
1,1,1-Trichloroethane	ND	8.8	ug/kg	0.98
1,1,2-Trichloroethane	ND	8.8	ug/kg	0.68
Trichloroethene	ND	8.8	ug/kg	0.74
Trichlorofluoromethane	ND	18	ug/kg	0.60

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Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-026 **Work Order #...:** MG3P61AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Vinyl chloride	ND	3.5	ug/kg	0.68
Xylenes (total)	ND	8.8	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	94	(39 - 128)
Toluene-d8	101	(33 - 134)
4-Bromofluorobenzene	116	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-026 **Work Order #...:** MG3P62AC **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 5
% Moisture.....: 43 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,2-Dibromo-3-chloro-propane	ND	88	ug/kg	11
1,2-Dichlorobenzene	ND	44	ug/kg	3.2
1,3-Dichlorobenzene	ND	44	ug/kg	3.1
1,4-Dichlorobenzene	ND	44	ug/kg	5.8
1,1,2,2-Tetrachloroethane	ND	44	ug/kg	3.0
1,2,4-Trichloro-benzene	ND	44	ug/kg	2.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(30 - 122)
1,2-Dichloroethane-d4	98	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	95	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-026 **Work Order #...:** MG3P61AM **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 2
% Moisture.....: 43 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**65**	**23**	**ug/kg**	**12**
Acenaphthylene	ND	23	ug/kg	12
Anthracene	**180**	**23**	**ug/kg**	**12**
Benzo(a)anthracene	**840**	**23**	**ug/kg**	**12**
Benzo(a)pyrene	**900**	**23**	**ug/kg**	**12**
Benzo(b)fluoranthene	**1200**	**23**	**ug/kg**	**12**
Benzo(ghi)perylene	**620**	**23**	**ug/kg**	**12**
Benzo(k)fluoranthene	**660**	**23**	**ug/kg**	**12**
Chrysene	**1000**	**23**	**ug/kg**	**3.9**
Dibenz(a,h)anthracene	ND	23	ug/kg	12
Fluoranthene	**2100**	**23**	**ug/kg**	**12**
Fluorene	**63**	**23**	**ug/kg**	**12**
Indeno(1,2,3-cd)pyrene	**540**	**23**	**ug/kg**	**12**
1-Methylnaphthalene	ND	23	ug/kg	12
2-Methylnaphthalene	ND	23	ug/kg	12
Naphthalene	ND	23	ug/kg	12
Phenanthrene	**930**	**23**	**ug/kg**	**12**
Pyrene	**1600**	**23**	**ug/kg**	**12**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	40 DIL	(24 - 112)
2-Fluorobiphenyl	41 DIL	(34 - 110)
Terphenyl-d14	53 DIL	(41 - 119)
Phenol-d5	47 DIL	(28 - 110)
2-Fluorophenol	48 DIL	(26 - 110)
2,4,6-Tribromophenol	27 DIL	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-026 **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
% Moisture.....: 43

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**16.3**	**1.5**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P61AE**
		Dilution Factor: 0.83		MDL.....: 0.44		
Lead	**26.6**	**0.44**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P61AF**
		Dilution Factor: 0.83		MDL.....: 0.28		
Barium	**74.5 J**	**29.1**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P61AH**
		Dilution Factor: 0.83		MDL.....: 0.10		
Selenium	ND	0.73	mg/kg	SW846 6010B	04/20-04/22/11	MG3P61AG
		Dilution Factor: 0.83		MDL.....: 0.65		
Cadmium	**0.26 B**	**0.73**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P61AJ**
		Dilution Factor: 0.83		MDL.....: 0.052		
Chromium	**15.6**	**1.5**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P61AK**
		Dilution Factor: 0.83		MDL.....: 0.29		
Silver	ND	1.5	mg/kg	SW846 6010B	04/20-04/22/11	MG3P61AL
		Dilution Factor: 0.83		MDL.....: 0.15		
Mercury	**0.029 B**	**0.14**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3P61AD**
		Dilution Factor: 0.79		MDL.....: 0.021		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

General Chemistry

Lot-Sample #...: A1D150470-026 **Work Order #...:** MG3P6 **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
% Moisture.....: 43

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**57.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/19-04/20/11**	**1109085**
	Dilution Factor: 1			MDL.....: 10.0		

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-027 **Work Order #...:** MG3P81AP **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**26**	**8.8**	**ug/kg**	**4.3**
Acenaphthylene	ND	8.8	ug/kg	4.3
Anthracene	**62**	**8.8**	**ug/kg**	**4.3**
Benzo(a)anthracene	**370**	**8.8**	**ug/kg**	**4.3**
Benzo(a)pyrene	**380**	**8.8**	**ug/kg**	**4.3**
Benzo(b)fluoranthene	**540**	**8.8**	**ug/kg**	**4.3**
Benzo(ghi)perylene	**280**	**8.8**	**ug/kg**	**4.3**
Benzo(k)fluoranthene	**220**	**8.8**	**ug/kg**	**4.3**
Chrysene	**420**	**8.8**	**ug/kg**	**1.4**
Dibenz(a,h)anthracene	ND	8.8	ug/kg	4.3
Fluoranthene	**810**	**8.8**	**ug/kg**	**4.3**
Fluorene	**23**	**8.8**	**ug/kg**	**4.3**
Indeno(1,2,3-cd)pyrene	**230**	**8.8**	**ug/kg**	**4.3**
1-Methylnaphthalene	**16**	**8.8**	**ug/kg**	**4.3**
2-Methylnaphthalene	**22**	**8.8**	**ug/kg**	**4.3**
Naphthalene	**15**	**8.8**	**ug/kg**	**4.3**
Phenanthrene	**340**	**8.8**	**ug/kg**	**4.3**
Pyrene	**640**	**8.8**	**ug/kg**	**4.3**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	47	(24 - 112)
2-Fluorobiphenyl	47	(34 - 110)
Terphenyl-d14	57	(41 - 119)
Phenol-d5	54	(28 - 110)
2-Fluorophenol	57	(26 - 110)
2,4,6-Tribromophenol	48	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

GC Volatiles

Lot-Sample #...: A1D150470-027 **Work Order #...:** MG3P81AA **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/03/11
Prep Batch #...: 1126188
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	130	ug/kg	61

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	72	(10 - 150)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-027 **Work Order #...:** MG3P81AC **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1109041
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**72**	**22**	**mg/kg**	**12**
C10-C20	**17 J**	**22**	**mg/kg**	**12**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	46	(10 - 110)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

GC Semivolatiles

Lot-Sample #...: A1D150470-027 **Work Order #...:** MG3P81AN **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1109047
Dilution Factor: 1
% Moisture.....: 24 **Method.....:** SW846 8082

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Aroclor 1016	ND	43	ug/kg	28
Aroclor 1221	ND	43	ug/kg	21
Aroclor 1232	ND	43	ug/kg	18
Aroclor 1242	ND	43	ug/kg	17
Aroclor 1248	ND	43	ug/kg	22
Aroclor 1254	ND	43	ug/kg	22
Aroclor 1260	ND	43	ug/kg	22

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	74	(10 - 196)
Decachlorobiphenyl	93	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

TOTAL Metals

Lot-Sample #...: A1D150470-027 **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
% Moisture.....: 24

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**19.1**	**0.91**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AF**
		Dilution Factor: 0.69		MDL.....: 0.27		
Lead	**19.2**	**0.27**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AG**
		Dilution Factor: 0.69		MDL.....: 0.17		
Barium	**67.3 J**	**18.2**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AJ**
		Dilution Factor: 0.69		MDL.....: 0.065		
Selenium	**0.64**	**0.45**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AH**
		Dilution Factor: 0.69		MDL.....: 0.41		
Cadmium	**0.18 B**	**0.45**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AK**
		Dilution Factor: 0.69		MDL.....: 0.033		
Chromium	**11.8**	**0.91**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3P81AL**
		Dilution Factor: 0.69		MDL.....: 0.18		
Silver	ND	0.91	mg/kg	SW846 6010B	04/20-04/22/11	MG3P81AM
		Dilution Factor: 0.69		MDL.....: 0.091		
Mercury	**0.031 B**	**0.12**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3P81AE**
		Dilution Factor: 0.88		MDL.....: 0.017		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD13-CSA-0411

General Chemistry

Lot-Sample #...: A1D150470-027 **Work Order #...:** MG3P8 **Matrix.....:** SO
Date Sampled...: 04/14/11 15:35 **Date Received..:** 04/15/11
% Moisture.....: 24

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**76.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/19-04/20/11**	**1109085**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-028 **Work Order #...:** MG3QA1AC **Matrix.....:** SO
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8260A

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**17 J,B**	**28**	**ug/kg**	**8.7**
Benzene	ND	6.9	ug/kg	0.32
Bromodichloromethane	ND	6.9	ug/kg	0.39
Bromoform	ND	6.9	ug/kg	0.46
Bromomethane	ND	14	ug/kg	0.75
2-Butanone	**3.3 J,B**	**28**	**ug/kg**	**1.9**
Carbon disulfide	ND	6.9	ug/kg	0.61
Carbon tetrachloride	ND	6.9	ug/kg	0.51
Chlorobenzene	ND	6.9	ug/kg	0.46
Dibromochloromethane	ND	6.9	ug/kg	0.76
Chloroethane	ND	14	ug/kg	1.2
Chloroform	ND	6.9	ug/kg	0.40
Chloromethane	ND	14	ug/kg	0.57
1,2-Dibromo-3-chloro-propane	ND	14	ug/kg	1.8
1,2-Dibromoethane	ND	6.9	ug/kg	0.69
1,2-Dichlorobenzene	ND	6.9	ug/kg	0.50
1,3-Dichlorobenzene	ND	6.9	ug/kg	0.48
1,4-Dichlorobenzene	ND	6.9	ug/kg	0.91
Dichlorodifluoromethane	ND	14	ug/kg	0.69
1,1-Dichloroethane	ND	6.9	ug/kg	0.50
1,2-Dichloroethane	ND	6.9	ug/kg	0.47
cis-1,2-Dichloroethene	ND	3.5	ug/kg	0.50
trans-1,2-Dichloroethene	ND	3.5	ug/kg	0.57
1,1-Dichloroethene	ND	6.9	ug/kg	0.72
1,2-Dichloropropane	ND	6.9	ug/kg	0.96
cis-1,3-Dichloropropene	ND	6.9	ug/kg	0.47
trans-1,3-Dichloropropene	ND	6.9	ug/kg	0.75
Ethylbenzene	ND	6.9	ug/kg	0.36
n-Hexane	ND	6.9	ug/kg	1.7
2-Hexanone	ND	28	ug/kg	0.87
Isopropylbenzene	ND	6.9	ug/kg	0.22
Methylene chloride	**2.3 J,B**	**6.9**	**ug/kg**	**0.93**
4-Methyl-2-pentanone	ND	28	ug/kg	0.75
Methyl tert-butyl ether (MTBE)	ND	28	ug/kg	0.60
Styrene	ND	6.9	ug/kg	0.21
1,1,2,2-Tetrachloroethane	ND	6.9	ug/kg	0.47

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Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-028 **Work Order #...:** MG3QA1AC **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Tetrachloroethene	ND	6.9	ug/kg	0.72
Toluene	ND	6.9	ug/kg	0.37
1,2,4-Trichloro-benzene	ND	6.9	ug/kg	0.37
1,1,1-Trichloroethane	ND	6.9	ug/kg	0.78
1,1,2-Trichloroethane	ND	6.9	ug/kg	0.54
Trichloroethene	ND	6.9	ug/kg	0.58
Trichlorofluoromethane	ND	14	ug/kg	0.47
Vinyl chloride	ND	2.8	ug/kg	0.54
Xylenes (total)	ND	6.9	ug/kg	0.93

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
1,2-Dichloroethane-d4	93	(39 - 128)
Toluene-d8	88	(33 - 134)
4-Bromofluorobenzene	101	(26 - 141)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-028 **Work Order #...:** MG3QA1AM **Matrix.....:** SO
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	**15**	**9.2**	**ug/kg**	**4.6**
Acenaphthylene	ND	9.2	ug/kg	4.6
Anthracene	**47**	**9.2**	**ug/kg**	**4.6**
Benzo(a)anthracene	**180**	**9.2**	**ug/kg**	**4.6**
Benzo(a)pyrene	**170**	**9.2**	**ug/kg**	**4.6**
Benzo(b)fluoranthene	**290**	**9.2**	**ug/kg**	**4.6**
Benzo(ghi)perylene	**120**	**9.2**	**ug/kg**	**4.6**
Benzo(k)fluoranthene	**150**	**9.2**	**ug/kg**	**4.6**
Chrysene	**250**	**9.2**	**ug/kg**	**1.5**
Dibenz(a,h)anthracene	ND	9.2	ug/kg	4.6
Fluoranthene	**590**	**9.2**	**ug/kg**	**4.6**
Fluorene	**17**	**9.2**	**ug/kg**	**4.6**
Indeno(1,2,3-cd)pyrene	**110**	**9.2**	**ug/kg**	**4.6**
1-Methylnaphthalene	ND	9.2	ug/kg	4.6
2-Methylnaphthalene	ND	9.2	ug/kg	4.6
Naphthalene	ND	9.2	ug/kg	4.6
Phenanthrene	**200**	**9.2**	**ug/kg**	**4.6**
Pyrene	**440**	**9.2**	**ug/kg**	**4.6**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	49	(24 - 112)
2-Fluorobiphenyl	51	(34 - 110)
Terphenyl-d14	69	(41 - 119)
Phenol-d5	57	(28 - 110)
2-Fluorophenol	60	(26 - 110)
2,4,6-Tribromophenol	52	(10 - 118)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-028 **Matrix.....:** SO
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
% Moisture.....: 28

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1110023						
Arsenic	**9.3**	**1.3**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AE**
		Dilution Factor: 0.96		MDL.....: 0.40		
Lead	**17.3**	**0.40**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AF**
		Dilution Factor: 0.96		MDL.....: 0.25		
Barium	**89.7 J**	**26.6**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AH**
		Dilution Factor: 0.96		MDL.....: 0.094		
Selenium	**0.67**	**0.67**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AG**
		Dilution Factor: 0.96		MDL.....: 0.60		
Cadmium	**0.11 B**	**0.67**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AJ**
		Dilution Factor: 0.96		MDL.....: 0.048		
Chromium	**13.7**	**1.3**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG3QA1AK**
		Dilution Factor: 0.96		MDL.....: 0.27		
Silver	ND	1.3	mg/kg	SW846 6010B	04/20-04/22/11	MG3QA1AL
		Dilution Factor: 0.96		MDL.....: 0.13		
Mercury	**0.029 B**	**0.10**	**mg/kg**	**SW846 7471A**	**04/20-04/21/11**	**MG3QA1AD**
		Dilution Factor: 0.75		MDL.....: 0.016		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

General Chemistry

Lot-Sample #...: A1D150470-028 **Work Order #...:** MG3QA **Matrix.....:** SO
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
% Moisture.....: 28

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**72.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/19-04/20/11**	**1109085**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SW01-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-029 **Work Order #...:** MG3QE1AA **Matrix.....:** WS
Date Sampled...: 04/14/11 11:35 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: SW01-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-029 **Work Order #...:** MG3QE1AA **Matrix.....:** WS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(75 - 121)
1,2-Dichloroethane-d4	109	(63 - 129)
Toluene-d8	86	(74 - 115)
4-Bromofluorobenzene	72	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: SW01-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-029 **Work Order #...:** MG3QE1AL **Matrix.....:** WS
Date Sampled...: 04/14/11 11:35 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108046
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	52	(27 - 111)
2-Fluorobiphenyl	50	(28 - 110)
Terphenyl-d14	58	(37 - 119)
Phenol-d5	57	(10 - 110)
2-Fluorophenol	55	(10 - 110)
2,4,6-Tribromophenol	56	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: SW01-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-029 **Matrix.....:** WS
Date Sampled...: 04/14/11 11:35 **Date Received..:** 04/15/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1108017						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AD
		Dilution Factor: 1		MDL.....: 3.2		
Lead	ND	3.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AE
		Dilution Factor: 1		MDL.....: 1.9		
Barium	**47.4 B,J**	**200**	**ug/L**	**SW846 6010B**	**04/18-04/19/11**	**MG3QE1AG**
		Dilution Factor: 1		MDL.....: 0.67		
Selenium	ND	5.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AF
		Dilution Factor: 1		MDL.....: 4.1		
Cadmium	ND	4.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AH
		Dilution Factor: 1		MDL.....: 0.66		
Chromium	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AJ
		Dilution Factor: 1		MDL.....: 2.2		
Silver	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QE1AK
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/11	MG3QE1AC
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SWDUP0414

GC/MS Volatiles

Lot-Sample #...: A1D150470-030 **Work Order #...:** MG3QF1AA **Matrix.....:** WS
Date Sampled...: 04/14/11 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: SWDUP0414

GC/MS Volatiles

Lot-Sample #...: A1D150470-030 **Work Order #...:** MG3QF1AA **Matrix.....:** WS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(75 - 121)
1,2-Dichloroethane-d4	110	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	76	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: SWDUP0414

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-030 **Work Order #...:** MG3QF1AL **Matrix.....:** WS
Date Sampled...: 04/14/11 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108046
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
Terphenyl-d14	60	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	64	(10 - 110)
2,4,6-Tribromophenol	63	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: SWDUP0414

TOTAL Metals

Lot-Sample #...: A1D150470-030 **Matrix.....:** WS
Date Sampled...: 04/14/11 **Date Received..:** 04/15/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1108017						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AD
		Dilution Factor: 1		MDL.....: 3.2		
Lead	ND	3.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AE
		Dilution Factor: 1		MDL.....: 1.9		
Barium	**46.0 B,J**	**200**	**ug/L**	**SW846 6010B**	**04/18-04/19/11**	**MG3QF1AG**
		Dilution Factor: 1		MDL.....: 0.67		
Selenium	ND	5.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AF
		Dilution Factor: 1		MDL.....: 4.1		
Cadmium	ND	4.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AH
		Dilution Factor: 1		MDL.....: 0.66		
Chromium	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AJ
		Dilution Factor: 1		MDL.....: 2.2		
Silver	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QF1AK
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/11	MG3QF1AC
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: SW02-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-031 **Work Order #...:** MG3QH1AA **Matrix.....:** WS
Date Sampled...: 04/14/11 14:00 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: SW02-LAN-0411

GC/MS Volatiles

Lot-Sample #...: A1D150470-031 **Work Order #...:** MG3QH1AA **Matrix.....:** WS

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(75 - 121)
1,2-Dichloroethane-d4	106	(63 - 129)
Toluene-d8	87	(74 - 115)
4-Bromofluorobenzene	77	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: SW02-LAN-0411

GC/MS Semivolatiles

Lot-Sample #...: A1D150470-031 **Work Order #...:** MG3QH1AL **Matrix.....:** WS
Date Sampled...: 04/14/11 14:00 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108046
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	**0.67**	**0.20**	**ug/L**	**0.10**
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	**0.24**	**0.20**	**ug/L**	**0.10**
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	53	(27 - 111)
2-Fluorobiphenyl	49	(28 - 110)
Terphenyl-d14	49	(37 - 119)
Phenol-d5	57	(10 - 110)
2-Fluorophenol	56	(10 - 110)
2,4,6-Tribromophenol	53	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: SW02-LAN-0411

TOTAL Metals

Lot-Sample #...: A1D150470-031 **Matrix.....:** WS
Date Sampled...: 04/14/11 14:00 **Date Received..:** 04/15/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1108017						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AD
		Dilution Factor: 1		MDL.....: 3.2		
Lead	ND	3.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AE
		Dilution Factor: 1		MDL.....: 1.9		
Barium	**46.9 B,J**	**200**	**ug/L**	**SW846 6010B**	**04/18-04/19/11**	**MG3QH1AG**
		Dilution Factor: 1		MDL.....: 0.67		
Selenium	ND	5.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AF
		Dilution Factor: 1		MDL.....: 4.1		
Cadmium	ND	4.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AH
		Dilution Factor: 1		MDL.....: 0.66		
Chromium	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AJ
		Dilution Factor: 1		MDL.....: 2.2		
Silver	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG3QH1AK
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/11	MG3QH1AC
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D150470-032 **Work Order #...:** MG3QJ1AA **Matrix.....:** WQ
Date Sampled...: 04/14/11 17:16 **Date Received..:** 04/15/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**9.6 J**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	**0.23 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	**0.24 J**	**1.0**	**ug/L**	**0.19**
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	**8.8**	**1.0**	**ug/L**	**0.33**
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1D150470-032 **Work Order #...:** MG3QJ1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	**0.47 J**	**1.0**	**ug/L**	**0.13**
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(75 - 121)
1,2-Dichloroethane-d4	108	(63 - 129)
Toluene-d8	84	(74 - 115)
4-Bromofluorobenzene	71	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHAVL1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D210000-160

Prep Date.....: 04/20/11
Analysis Date..: 04/20/11 **Prep Batch #...:** 1111160
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.5 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	**2.0 J**	**20**	**ug/kg**	**SW846 8260A**
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	**0.42 J**	**10**	**ug/kg**	**SW846 8260A**
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**1.5 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.1 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.38 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHAVL1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(30 - 122)
1,2-Dichloroethane-d4	93	(39 - 128)
Toluene-d8	87	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHG971AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D260000-078

Prep Date.....: 04/21/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1116078
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**7.6 J**	**20**	**ug/kg**	**SW846 8260A**
Benzene	ND	5.0	ug/kg	SW846 8260A
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260A
Bromoform	ND	5.0	ug/kg	SW846 8260A
Bromomethane	ND	10	ug/kg	SW846 8260A
2-Butanone	ND	20	ug/kg	SW846 8260A
Carbon disulfide	ND	5.0	ug/kg	SW846 8260A
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
Chloroethane	ND	10	ug/kg	SW846 8260A
Chloroform	ND	5.0	ug/kg	SW846 8260A
Chloromethane	ND	10	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dichlorodifluoromethane	ND	10	ug/kg	SW846 8260A
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260A
cis-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
trans-1,2-Dichloroethene	ND	2.5	ug/kg	SW846 8260A
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260A
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260A
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
n-Hexane	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	**5.7 J**	**20**	**ug/kg**	**SW846 8260A**
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Methylene chloride	**4.8 J**	**5.0**	**ug/kg**	**SW846 8260A**
4-Methyl-2-pentanone	**5.0 J**	**20**	**ug/kg**	**SW846 8260A**
Methyl tert-butyl ether (MTBE)	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.31 J**	**5.0**	**ug/kg**	**SW846 8260A**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHG971AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Trichloroethene	ND	5.0	ug/kg	SW846 8260A
Trichlorofluoromethane	ND	10	ug/kg	SW846 8260A
Vinyl chloride	ND	2.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
1,2-Dichloroethane-d4	92	(39 - 128)
Toluene-d8	89	(33 - 134)
4-Bromofluorobenzene	95	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHMFW1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D280000-255

Prep Date.....: 04/26/11
Analysis Date..: 04/26/11 **Prep Batch #...:** 1118255
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	**0.65 J**	**5.0**	**ug/kg**	**SW846 8260A**
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(30 - 122)
1,2-Dichloroethane-d4	106	(39 - 128)
Toluene-d8	93	(33 - 134)
4-Bromofluorobenzene	97	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM0X1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D280000-325

Prep Date.....: 04/22/11
Analysis Date..: 04/22/11 **Prep Batch #...:** 1118325
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Bromoform	ND	5.0	ug/kg	SW846 8260A
Chlorobenzene	ND	5.0	ug/kg	SW846 8260A
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dibromo-3-chloro-propane	ND	10	ug/kg	SW846 8260A
1,2-Dibromoethane	ND	5.0	ug/kg	SW846 8260A
1,2-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,3-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
1,4-Dichlorobenzene	ND	5.0	ug/kg	SW846 8260A
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260A
Ethylbenzene	ND	5.0	ug/kg	SW846 8260A
2-Hexanone	ND	20	ug/kg	SW846 8260A
Isopropylbenzene	ND	5.0	ug/kg	SW846 8260A
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260A
Styrene	ND	5.0	ug/kg	SW846 8260A
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260A
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260A
Toluene	ND	5.0	ug/kg	SW846 8260A
1,2,4-Trichloro-benzene	ND	5.0	ug/kg	SW846 8260A
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260A
Xylenes (total)	ND	5.0	ug/kg	SW846 8260A

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(30 - 122)
1,2-Dichloroethane-d4	94	(39 - 128)
Toluene-d8	90	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHJED1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D260000-383

Prep Date.....: 04/22/11
Analysis Date..: 04/22/11 **Prep Batch #...:** 1116383
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHJED1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(75 - 121)
1,2-Dichloroethane-d4	105	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	77	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4PH1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-331

Prep Date.....: 04/16/11
Analysis Date..: 04/27/11 **Prep Batch #...:** 1105331
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(24 - 112)
2-Fluorobiphenyl	62	(34 - 110)
Terphenyl-d14	75	(41 - 119)
Phenol-d5	65	(28 - 110)
2-Fluorophenol	69	(26 - 110)
2,4,6-Tribromophenol	55	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P01AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-332

Prep Date.....: 04/16/11
Analysis Date..: 04/22/11 **Prep Batch #...:** 1105332
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(24 - 112)
2-Fluorobiphenyl	53	(34 - 110)
Terphenyl-d14	70	(41 - 119)
Phenol-d5	61	(28 - 110)
2-Fluorophenol	61	(26 - 110)
2,4,6-Tribromophenol	51	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P61AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D150000-334

Prep Date.....: 04/16/11
Analysis Date..: 04/28/11 **Prep Batch #...:** 1105334
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	44	(24 - 112)
2-Fluorobiphenyl	48	(34 - 110)
Terphenyl-d14	71	(41 - 119)
Phenol-d5	46	(28 - 110)
2-Fluorophenol	53	(26 - 110)
2,4,6-Tribromophenol	31	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AF1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D180000-046

Prep Date.....: 04/18/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1108046
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(27 - 111)
2-Fluorobiphenyl	55	(28 - 110)
Terphenyl-d14	75	(37 - 119)
Phenol-d5	62	(10 - 110)
2-Fluorophenol	63	(10 - 110)
2,4,6-Tribromophenol	57	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AV1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D180000-058

Prep Date.....: 04/18/11
Analysis Date..: 04/22/11 **Prep Batch #...:** 1108058
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	6.7	ug/kg	SW846 8270C
Acenaphthylene	ND	6.7	ug/kg	SW846 8270C
Anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	6.7	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	6.7	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	6.7	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	6.7	ug/kg	SW846 8270C
Chrysene	ND	6.7	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	6.7	ug/kg	SW846 8270C
Fluoranthene	ND	6.7	ug/kg	SW846 8270C
Fluorene	ND	6.7	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	6.7	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	6.7	ug/kg	SW846 8270C
Naphthalene	ND	6.7	ug/kg	SW846 8270C
Phenanthrene	ND	6.7	ug/kg	SW846 8270C
Pyrene	ND	6.7	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	50	(24 - 112)
2-Fluorobiphenyl	60	(34 - 110)
Terphenyl-d14	72	(41 - 119)
Phenol-d5	60	(28 - 110)
2-Fluorophenol	61	(26 - 110)
2,4,6-Tribromophenol	49	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHHCM1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D260000-105
Prep Date.....: 04/25/11
Analysis Date..: 04/25/11 **Prep Batch #...:** 1116105
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	76	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM8Q1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D290000-100
Prep Date.....: 04/28/11
Analysis Date..: 04/28/11 **Prep Batch #...:** 1119100
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/L	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	83	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM8R1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D290000-101
Prep Date.....: 04/28/11
Analysis Date..: 04/28/11 **Prep Batch #...:** 1119101
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	86	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MH2GL1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1E060000-188
Prep Date.....: 05/02/11
Analysis Date..: 05/02/11 **Prep Batch #...:** 1126188
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/kg	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	87	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AJ1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D180000-051
Prep Date.....: 04/19/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1108051
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	500	ug/L	SW846 8015B
C10-C20	ND	500	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	51	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6N71AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-041

Prep Date.....: 04/19/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1109041
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	17	mg/kg	SW846 8015B
C10-C20	ND	17	mg/kg	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	42	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AE1AA **Matrix.....:** WATER
MB Lot-Sample #: A1D180000-044

Prep Date.....: 04/18/11
Analysis Date..: 04/21/11 **Prep Batch #...:** 1108044
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	0.50	ug/L	SW846 8082
Aroclor 1221	ND	0.50	ug/L	SW846 8082
Aroclor 1232	ND	0.50	ug/L	SW846 8082
Aroclor 1242	ND	0.50	ug/L	SW846 8082
Aroclor 1248	ND	0.50	ug/L	SW846 8082
Aroclor 1254	ND	0.50	ug/L	SW846 8082
Aroclor 1260	ND	0.50	ug/L	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	75	(27 - 130)
Decachlorobiphenyl	68	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6PE1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-046

Prep Date.....: 04/19/11
Analysis Date..: 04/23/11 **Prep Batch #...:** 1109046
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	131	(10 - 196)
Decachlorobiphenyl	148	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6PF1AA **Matrix.....:** SOLID
MB Lot-Sample #: A1D190000-047
Prep Date.....: 04/19/11
Analysis Date..: 05/02/11 **Prep Batch #...:** 1109047
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	80	(10 - 196)
Decachlorobiphenyl	108	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D180000-017 **Prep Batch #...:** 1108017						
Arsenic	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841CW
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841CX
		Dilution Factor: 1				
Barium	**1.2 B**	**200**	**ug/L**	**SW846 6010B**	**04/18-04/19/11**	**MG4841C1**
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841C0
		Dilution Factor: 1				
Cadmium	ND	4.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841C2
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841C3
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	04/18-04/19/11	MG4841C4
		Dilution Factor: 1				
Mercury	ND	0.20	ug/L	SW846 7470A	04/19/11	MG4841CV
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1D200000-023 **Prep Batch #...:** 1110023						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AD
		Dilution Factor: 1				
Barium	**0.13 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/20-04/22/11**	**MG8RN1AF**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AE
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AG
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AH
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	04/20-04/22/11	MG8RN1AJ
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/20-04/21/11	MG8RN1AA
		Dilution Factor: 1				
MB Lot-Sample #: A1D210000-027 **Prep Batch #...:** 1111027						
Arsenic	ND	1.0	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AD
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AG
		Dilution Factor: 1				
Barium	**0.11 B**	**20.0**	**mg/kg**	**SW846 6010B**	**04/21-04/22/11**	**MHAG81AJ**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AH
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AU
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AV
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Silver	ND	1.0	mg/kg	SW846 6010B	04/21-04/22/11	MHAG81AW
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	04/21-04/26/11	MHAG81AA
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D150470 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MG5J01AA		MB Lot-Sample #:	A1D180000-147	
	ND	10.0	%	MCAWW 160.3 MOD	04/18-04/19/11	1108147
		Dilution Factor: 1				
Percent Solids		Work Order #: MG5JP1AA		MB Lot-Sample #:	A1D180000-157	
	ND	10.0	%	MCAWW 160.3 MOD	04/18-04/19/11	1108157
		Dilution Factor: 1				
Percent Solids		Work Order #: MG62R1AA		MB Lot-Sample #:	A1D190000-085	
	ND	10.0	%	MCAWW 160.3 MOD	04/19-04/20/11	1109085
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHAVL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-160
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	72	(16 - 156)	SW846 8260A
Benzene	**89**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	87	(61 - 121)	SW846 8260A
Bromodichloromethane	**95**	**(28 - 123)**	**SW846 8260A**
Bromoform	111	(10 - 117)	SW846 8260A
Bromomethane	58	(10 - 114)	SW846 8260A
2-Butanone	**79**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**110**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**91**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**94**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**102**	**(22 - 113)**	**SW846 8260A**
Chloroethane	122 a	(10 - 120)	SW846 8260A
Chloroform	**89**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	88	(40 - 120)	SW846 8260A
Chloromethane	71	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**91**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**101**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	94	(48 - 151)	SW846 8260A
Methyl acetate	71	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**99**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	91	(41 - 133)	SW846 8260A
o-Xylene	**106**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**106**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**97**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	82	(25 - 140)	SW846 8260A
Acetonitrile	74	(15 - 179)	SW846 8260A
Acrolein	80	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**92**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	78	(49 - 126)	SW846 8260A
Bromobenzene	**97**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**94**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**105**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHAVL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-160

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	58	(10 - 110)	SW846 8260A
sec-Butylbenzene	**99**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**94**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**101**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**86**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**101**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**97**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**102**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**87**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	86	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**90**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	93	(34 - 135)	SW846 8260A
Iodomethane	112	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**88**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	88	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**105**	**(56 - 136)**	**SW846 8260A**
Naphthalene	90	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**87**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**101**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**99**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	107	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**96**	**(74 - 124)**	**SW846 8260A**
1,1-Dichloroethene	**78**	**(44 - 143)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**101**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**99**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	94	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**92**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**98**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**111**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**99**	**(66 - 119)**	**SW846 8260A**
n-Hexane	94	(51 - 144)	SW846 8260A
2-Hexanone	**87**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**101**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**80**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**87**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**95**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHAVL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D210000-160

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**108**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**94**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**93**	**(58 - 131)**	**SW846 8260A**
Toluene	**95**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	104	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**88**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**101**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**88**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	87	(17 - 145)	SW846 8260A
Vinyl chloride	**76**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**106**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(30 - 122)
1,2-Dichloroethane-d4	82	(39 - 128)
Toluene-d8	95	(33 - 134)
4-Bromofluorobenzene	93	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHG971AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D260000-078
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	83	(16 - 156)	SW846 8260A
Benzene	**95**	**(70 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	96	(61 - 121)	SW846 8260A
Bromodichloromethane	**104**	**(28 - 123)**	**SW846 8260A**
Bromoform	119 a	(10 - 117)	SW846 8260A
Bromomethane	58	(10 - 114)	SW846 8260A
2-Butanone	**89**	**(10 - 199)**	**SW846 8260A**
Carbon disulfide	**103**	**(10 - 132)**	**SW846 8260A**
Carbon tetrachloride	**100**	**(29 - 118)**	**SW846 8260A**
Chlorobenzene	**99**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**108**	**(22 - 113)**	**SW846 8260A**
Chloroethane	140 a	(10 - 120)	SW846 8260A
Chloroform	**97**	**(63 - 116)**	**SW846 8260A**
Cyclohexane	97	(40 - 120)	SW846 8260A
Chloromethane	73	(25 - 110)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**102**	**(10 - 129)**	**SW846 8260A**
1,2-Dibromoethane	**109**	**(47 - 123)**	**SW846 8260A**
Trichlorotrifluoroethane	102	(48 - 151)	SW846 8260A
Methyl acetate	79	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**105**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	100	(41 - 133)	SW846 8260A
o-Xylene	**114**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**111**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**104**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	92	(25 - 140)	SW846 8260A
Acetonitrile	84	(15 - 179)	SW846 8260A
Acrolein	88	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**96**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	91	(49 - 126)	SW846 8260A
Bromobenzene	**102**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**100**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**111**	**(51 - 137)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHG971AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D260000-078

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	58	(10 - 110)	SW846 8260A
sec-Butylbenzene	**106**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**101**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**108**	**(68 - 122)**	**SW846 8260A**
1,1-Dichloroethane	**94**	**(63 - 117)**	**SW846 8260A**
4-Chlorotoluene	**108**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**106**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**108**	**(74 - 119)**	**SW846 8260A**
1,2-Dichloroethane	**95**	**(68 - 119)**	**SW846 8260A**
2,2-Dichloropropane	96	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**99**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	99	(34 - 135)	SW846 8260A
Iodomethane	115	(49 - 134)	SW846 8260A
cis-1,2-Dichloroethene	**97**	**(60 - 125)**	**SW846 8260A**
Isopropyl ether	98	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**112**	**(56 - 136)**	**SW846 8260A**
Naphthalene	100	(37 - 126)	SW846 8260A
trans-1,2-Dichloroethene	**94**	**(58 - 121)**	**SW846 8260A**
n-Propylbenzene	**107**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**108**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	113	(43 - 129)	SW846 8260A
1,1-Dichloroethene	**88**	**(44 - 143)**	**SW846 8260A**
1,2,3-Trichloropropane	**105**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**107**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**105**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	102	(48 - 151)	SW846 8260A
1,2-Dichloropropane	**100**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**108**	**(25 - 120)**	**SW846 8260A**
trans-1,3-Dichloropropene	**118**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**106**	**(66 - 119)**	**SW846 8260A**
n-Hexane	104	(51 - 144)	SW846 8260A
2-Hexanone	**95**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**107**	**(61 - 123)**	**SW846 8260A**
Methylene chloride	**94**	**(27 - 172)**	**SW846 8260A**
4-Methyl-2-pentanone	**97**	**(49 - 121)**	**SW846 8260A**
Methyl tert-butyl ether (	**107**	**(34 - 157)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHG971AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D260000-078

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**115**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**101**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**98**	**(58 - 131)**	**SW846 8260A**
Toluene	**99**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	114	(41 - 135)	SW846 8260A
1,1,1-Trichloroethane	**95**	**(38 - 122)**	**SW846 8260A**
1,1,2-Trichloroethane	**108**	**(74 - 114)**	**SW846 8260A**
Trichloroethene	**95**	**(59 - 124)**	**SW846 8260A**
Trichlorofluoromethane	92	(17 - 145)	SW846 8260A
Vinyl chloride	**83**	**(33 - 110)**	**SW846 8260A**
Xylenes (total)	**112**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(30 - 122)
1,2-Dichloroethane-d4	87	(39 - 128)
Toluene-d8	97	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHMFW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-255
Prep Date.....: 04/26/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1118255
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	70	(25 - 110)	SW846 8260A
Bromomethane	76	(10 - 114)	SW846 8260A
Vinyl chloride	**84**	**(33 - 110)**	**SW846 8260A**
Chloroethane	97	(10 - 120)	SW846 8260A
Methylene chloride	**86**	**(27 - 172)**	**SW846 8260A**
Acetone	104	(16 - 156)	SW846 8260A
Carbon disulfide	**96**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**93**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**103**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	95	(61 - 121)	SW846 8260A
Chloroform	**104**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**117**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**125**	**(10 - 199)**	**SW846 8260A**
Bromoform	88	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**96**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**98**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**106**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**108**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**99**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**107**	**(59 - 124)**	**SW846 8260A**
Benzene	**103**	**(70 - 117)**	**SW846 8260A**
4-Methyl-2-pentanone	**113**	**(49 - 121)**	**SW846 8260A**
Chlorobenzene	**105**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**107**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**94**	**(60 - 125)**	**SW846 8260A**
trans-1,2-Dichloroethene	**95**	**(58 - 121)**	**SW846 8260A**
n-Hexane	132	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**84**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	103	(40 - 120)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**92**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	56	(10 - 110)	SW846 8260A
1,2-Dibromoethane	**111**	**(47 - 123)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHMFW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-255

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorofluoromethane	107	(17 - 145)	SW846 8260A
Trichlorotrifluoroethane	111	(48 - 151)	SW846 8260A
Methyl acetate	110	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**100**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	102	(41 - 133)	SW846 8260A
o-Xylene	**102**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**108**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**102**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	99	(25 - 140)	SW846 8260A
Acetonitrile	105	(15 - 179)	SW846 8260A
Acrolein	104	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**99**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	106	(49 - 126)	SW846 8260A
Bromobenzene	**101**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**96**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**121**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**111**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**110**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**103**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**104**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**108**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**115**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	79	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**115**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	109	(34 - 135)	SW846 8260A
Iodomethane	102	(49 - 134)	SW846 8260A
Isopropyl ether	95	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**118**	**(56 - 136)**	**SW846 8260A**
Naphthalene	87	(37 - 126)	SW846 8260A
n-Propylbenzene	**112**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**100**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	91	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**114**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**111**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**111**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	111	(48 - 151)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHMFW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-255

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
trans-1,3-Dichloropropene	**117**	**(22 - 122)**	**SW846 8260A**
Ethylbenzene	**107**	**(66 - 119)**	**SW846 8260A**
2-Hexanone	**125**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**103**	**(61 - 123)**	**SW846 8260A**
Styrene	**101**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**110**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**122**	**(58 - 131)**	**SW846 8260A**
Toluene	**114**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	99	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**112**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**106**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(30 - 122)
1,2-Dichloroethane-d4	107	(39 - 128)
Toluene-d8	93	(33 - 134)
4-Bromofluorobenzene	100	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM0X1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-325
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1118325
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Chloromethane	67	(25 - 110)	SW846 8260A
Bromomethane	53	(10 - 114)	SW846 8260A
Vinyl chloride	**79**	**(33 - 110)**	**SW846 8260A**
Chloroethane	132 a	(10 - 120)	SW846 8260A
Methylene chloride	**84**	**(27 - 172)**	**SW846 8260A**
Acetone	87	(16 - 156)	SW846 8260A
Carbon disulfide	**92**	**(10 - 132)**	**SW846 8260A**
1,1-Dichloroethene	**85**	**(44 - 143)**	**SW846 8260A**
1,1-Dichloroethane	**91**	**(63 - 117)**	**SW846 8260A**
1,2-Dichloroethene (total)	92	(61 - 121)	SW846 8260A
Chloroform	**89**	**(63 - 116)**	**SW846 8260A**
1,2-Dichloroethane	**94**	**(68 - 119)**	**SW846 8260A**
2-Butanone	**83**	**(10 - 199)**	**SW846 8260A**
Bromoform	117	(10 - 117)	SW846 8260A
1,1,1-Trichloroethane	**93**	**(38 - 122)**	**SW846 8260A**
Carbon tetrachloride	**98**	**(29 - 118)**	**SW846 8260A**
Bromodichloromethane	**101**	**(28 - 123)**	**SW846 8260A**
1,2-Dichloropropane	**97**	**(73 - 113)**	**SW846 8260A**
cis-1,3-Dichloropropene	**103**	**(25 - 120)**	**SW846 8260A**
Trichloroethene	**94**	**(59 - 124)**	**SW846 8260A**
Benzene	**95**	**(70 - 117)**	**SW846 8260A**
Chlorobenzene	**97**	**(71 - 116)**	**SW846 8260A**
Dibromochloromethane	**108**	**(22 - 113)**	**SW846 8260A**
cis-1,2-Dichloroethene	**93**	**(60 - 125)**	**SW846 8260A**
trans-1,2-Dichloroethene	**90**	**(58 - 121)**	**SW846 8260A**
n-Hexane	95	(51 - 144)	SW846 8260A
Methyl tert-butyl ether	**101**	**(34 - 157)**	**SW846 8260A**
Cyclohexane	93	(40 - 120)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**93**	**(10 - 129)**	**SW846 8260A**
Dichlorodifluoromethane	53	(10 - 110)	SW846 8260A
1,2-Dibromoethane	**107**	**(47 - 123)**	**SW846 8260A**
Trichlorofluoromethane	90	(17 - 145)	SW846 8260A

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM0X1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-325

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Trichlorotrifluoroethane	99	(48 - 151)	SW846 8260A
Methyl acetate	78	(44 - 173)	SW846 8260A
1,2-Dichlorobenzene	**102**	**(68 - 118)**	**SW846 8260A**
Methylcyclohexane	96	(41 - 133)	SW846 8260A
o-Xylene	**111**	**(68 - 120)**	**SW846 8260A**
m-Xylene & p-Xylene	**112**	**(67 - 118)**	**SW846 8260A**
1,3-Dichlorobenzene	**100**	**(66 - 121)**	**SW846 8260A**
2-Chloroethyl vinyl ether	83	(25 - 140)	SW846 8260A
Acetonitrile	82	(15 - 179)	SW846 8260A
Acrolein	80	(18 - 171)	SW846 8260A
1,4-Dichlorobenzene	**95**	**(65 - 119)**	**SW846 8260A**
Acrylonitrile	85	(49 - 126)	SW846 8260A
Bromobenzene	**100**	**(72 - 120)**	**SW846 8260A**
Bromochloromethane	**98**	**(56 - 128)**	**SW846 8260A**
n-Butylbenzene	**106**	**(51 - 137)**	**SW846 8260A**
sec-Butylbenzene	**100**	**(58 - 131)**	**SW846 8260A**
tert-Butylbenzene	**95**	**(58 - 128)**	**SW846 8260A**
2-Chlorotoluene	**106**	**(68 - 122)**	**SW846 8260A**
4-Chlorotoluene	**103**	**(68 - 122)**	**SW846 8260A**
Dibromomethane	**103**	**(68 - 118)**	**SW846 8260A**
1,3-Dichloropropane	**106**	**(74 - 119)**	**SW846 8260A**
2,2-Dichloropropane	90	(25 - 123)	SW846 8260A
1,1-Dichloropropene	**95**	**(60 - 123)**	**SW846 8260A**
Hexachlorobutadiene	101	(34 - 135)	SW846 8260A
Iodomethane	102	(49 - 134)	SW846 8260A
Isopropyl ether	93	(71 - 113)	SW846 8260A
p-Isopropyltoluene	**106**	**(56 - 136)**	**SW846 8260A**
Naphthalene	94	(37 - 126)	SW846 8260A
n-Propylbenzene	**102**	**(64 - 130)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**106**	**(27 - 121)**	**SW846 8260A**
1,2,3-Trichlorobenzene	111	(43 - 129)	SW846 8260A
1,2,3-Trichloropropane	**101**	**(74 - 124)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**103**	**(62 - 133)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**101**	**(60 - 130)**	**SW846 8260A**
1,1,2-Trichloro-1,2,2-trifluoroethane	99	(48 - 151)	SW846 8260A
trans-1,3-Dichloropropene	**115**	**(22 - 122)**	**SW846 8260A**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM0X1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D280000-325

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Ethylbenzene	**105**	**(66 - 119)**	**SW846 8260A**
2-Hexanone	**88**	**(43 - 130)**	**SW846 8260A**
Isopropylbenzene	**106**	**(61 - 123)**	**SW846 8260A**
4-Methyl-2-pentanone	**91**	**(49 - 121)**	**SW846 8260A**
Styrene	**113**	**(60 - 120)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**95**	**(54 - 121)**	**SW846 8260A**
Tetrachloroethene	**98**	**(58 - 131)**	**SW846 8260A**
Toluene	**98**	**(66 - 123)**	**SW846 8260A**
1,2,4-Trichloro-benzene	106	(41 - 135)	SW846 8260A
1,1,2-Trichloroethane	**107**	**(74 - 114)**	**SW846 8260A**
Xylenes (total)	**112**	**(68 - 119)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
1,2-Dichloroethane-d4	87	(39 - 128)
Toluene-d8	99	(33 - 134)
4-Bromofluorobenzene	97	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHJED1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D260000-383
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	79	(43 - 136)	SW846 8260B
Benzene	**99**	**(83 - 112)**	**SW846 8260B**
Bromodichloromethane	**101**	**(72 - 121)**	**SW846 8260B**
1,2-Dichloroethene (total)	92	(82 - 114)	SW846 8260B
Bromoform	96	(40 - 131)	SW846 8260B
Bromomethane	50	(11 - 185)	SW846 8260B
2-Butanone	**91**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**95**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**99**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**100**	**(64 - 119)**	**SW846 8260B**
Chloroethane	45	(25 - 153)	SW846 8260B
Chloroform	**89**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	101	(74 - 151)	SW846 8260B
Methyl acetate	77	(58 - 131)	SW846 8260B
Chloromethane	66	(44 - 126)	SW846 8260B
Cyclohexane	88	(54 - 121)	SW846 8260B
Methylcyclohexane	93	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**75**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**99**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**91**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**93**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**95**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**103**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	102	(52 - 131)	SW846 8260B
Acetonitrile	73	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**94**	**(82 - 110)**	**SW846 8260B**
Acrolein	88	(51 - 170)	SW846 8260B
Vinyl acetate	116	(46 - 161)	SW846 8260B
Acrylonitrile	87	(66 - 132)	SW846 8260B
Bromobenzene	**104**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHJED1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D260000-383

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	45	(19 - 129)	SW846 8260B
Bromochloromethane	**97**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**82**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**83**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**84**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**84**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**97**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**102**	**(77 - 115)**	**SW846 8260B**
Dibromomethane	**104**	**(81 - 120)**	**SW846 8260B**
1,2-Dichloroethane	**93**	**(71 - 127)**	**SW846 8260B**
1,3-Dichloropropane	**102**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	65	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**99**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**92**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	83	(36 - 134)	SW846 8260B
Iodomethane	106	(72 - 141)	SW846 8260B
Isopropyl ether	83	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**91**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**87**	**(74 - 120)**	**SW846 8260B**
Naphthalene	58	(32 - 141)	SW846 8260B
n-Propylbenzene	**99**	**(74 - 121)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**83**	**(72 - 116)**	**SW846 8260B**
1,1-Dichloroethene	**91**	**(78 - 131)**	**SW846 8260B**
1,2,3-Trichlorobenzene	82	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**86**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**100**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**85**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**102**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**96**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**103**	**(83 - 112)**	**SW846 8260B**
n-Hexane	105	(66 - 137)	SW846 8260B
2-Hexanone	**101**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**82**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**85**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**102**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**65**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHJED1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D260000-383

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**98**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**92**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**105**	**(79 - 114)**	**SW846 8260B**
Toluene	**99**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	79	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**79**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**104**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**106**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	107	(49 - 157)	SW846 8260B
Vinyl chloride	**68**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**100**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	101	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4PH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-331
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**63**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**65**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**65**	**(47 - 110)**	**SW846 8270C**
Anthracene	**69**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**72**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**76**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**66**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**73**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**76**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**63**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**76**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**60**	**(38 - 110)**	**SW846 8270C**
Chrysene	**74**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**77**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**34**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**75**	**(55 - 118)**	**SW846 8270C**
Phenol	**63**	**(39 - 110)**	**SW846 8270C**
Fluorene	**65**	**(51 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**74**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**62**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	64	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**67**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**74**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**61**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**34**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**68**	**(54 - 110)**	**SW846 8270C**
Pyrene	**70**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**61**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**59**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**64**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	62	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4PH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-331

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**54**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**64**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**61**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**63**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**78**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**58**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**63**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**50**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	28	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**74**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**63**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**62**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**69**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**62**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	30 a	(31 - 110)	SW846 8270C
3-Nitroaniline	**59**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	43	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**72**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	50	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**34 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**75**	**(57 - 121)**	**SW846 8270C**
Carbazole	**70**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**65**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**73**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**70**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**80**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**69**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**64**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**60**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4PH1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-331

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**61**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**63**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**68**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**76**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	51	(10 - 110)	SW846 8270C
Benzoic acid	16	(10 - 124)	SW846 8270C
Pyridine	43	(22 - 110)	SW846 8270C
Atrazine	102	(50 - 130)	SW846 8270C
Acetophenone	67	(50 - 130)	SW846 8270C
1,1'-Biphenyl	69	(50 - 130)	SW846 8270C
Caprolactam	54	(50 - 130)	SW846 8270C
Aniline	46	(10 - 130)	SW846 8270C
Benzyl alcohol	53	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**59**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	54	(10 - 130)	SW846 8270C
Benzaldehyde	80	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	63	(36 - 116)	SW846 8270C
1,4-Dioxane	30	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(24 - 112)
2-Fluorobiphenyl	67	(34 - 110)
Terphenyl-d14	86	(41 - 119)
Phenol-d5	68	(28 - 110)
2-Fluorophenol	71	(26 - 110)
2,4,6-Tribromophenol	66	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P01AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-332
Prep Date.....: 04/16/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1105332
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**58**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**60**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**60**	**(47 - 110)**	**SW846 8270C**
Anthracene	**65**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**66**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**71**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**59**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**68**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**70**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**57**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**70**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**58**	**(38 - 110)**	**SW846 8270C**
Chrysene	**67**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**73**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**28**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**68**	**(55 - 118)**	**SW846 8270C**
Fluorene	**61**	**(51 - 110)**	**SW846 8270C**
Phenol	**58**	**(39 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**71**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**60**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	60	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**65**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**70**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**56**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**47**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**65**	**(54 - 110)**	**SW846 8270C**
Pyrene	**65**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**59**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**57**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**69**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	58	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P01AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-332

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**65**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**59**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**71**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**61**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**75**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**51**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**61**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**54**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	13	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**70**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**60**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**62**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**71**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**56**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	45	(31 - 110)	SW846 8270C
3-Nitroaniline	**63**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	31	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**67**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	47	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**31 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**72**	**(57 - 121)**	**SW846 8270C**
Carbazole	**67**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**61**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**69**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**67**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**74**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**65**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**58**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**59**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P01AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-332

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**53**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**60**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**67**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**72**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	28	(10 - 110)	SW846 8270C
Benzoic acid	30	(10 - 124)	SW846 8270C
Pyridine	41	(22 - 110)	SW846 8270C
Atrazine	92	(50 - 130)	SW846 8270C
Acetophenone	58	(50 - 130)	SW846 8270C
1,1'-Biphenyl	58	(50 - 130)	SW846 8270C
Caprolactam	62	(50 - 130)	SW846 8270C
Aniline	35	(10 - 130)	SW846 8270C
Benzyl alcohol	21	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**56**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	62	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	41	(10 - 130)	SW846 8270C
Benzaldehyde	68	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	61	(36 - 116)	SW846 8270C
1,4-Dioxane	26	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	55	(24 - 112)
2-Fluorobiphenyl	55	(34 - 110)
Terphenyl-d14	70	(41 - 119)
Phenol-d5	59	(28 - 110)
2-Fluorophenol	63	(26 - 110)
2,4,6-Tribromophenol	58	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**58**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**61**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**60**	**(47 - 110)**	**SW846 8270C**
Anthracene	**63**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**68**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**63**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**57**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**75**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**63**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**61**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**55**	**(38 - 122)**	**SW846 8270C**
Chrysene	**58**	**(56 - 111)**	**SW846 8270C**
1,4-Dichlorobenzene	**58**	**(38 - 110)**	**SW846 8270C**
Dibenz(a,h)anthracene	**63**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**36**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**65**	**(55 - 118)**	**SW846 8270C**
Fluorene	**61**	**(51 - 110)**	**SW846 8270C**
Phenol	**61**	**(39 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**64**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**60**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	59	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**64**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**68**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**59**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**48**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**61**	**(54 - 110)**	**SW846 8270C**
Pyrene	**61**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**59**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**59**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**59**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	60	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**62**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**61**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**68**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**59**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**65**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**66**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**61**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**41**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	31	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**65**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**59**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**60**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**63**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**57**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	39	(31 - 110)	SW846 8270C
3-Nitroaniline	**57**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	47	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**64**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	38	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**31 a**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**64**	**(57 - 121)**	**SW846 8270C**
Carbazole	**62**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**60**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**62**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**63**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**62**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**63**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**61**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**61**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4P61AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D150000-334

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**58**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**57**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**66**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	51	(10 - 110)	SW846 8270C
Benzoic acid	32	(10 - 124)	SW846 8270C
Pyridine	47	(22 - 110)	SW846 8270C
Atrazine	93	(50 - 130)	SW846 8270C
Acetophenone	66	(50 - 130)	SW846 8270C
1,1'-Biphenyl	64	(50 - 130)	SW846 8270C
Caprolactam	50	(50 - 130)	SW846 8270C
Aniline	36	(10 - 130)	SW846 8270C
Benzyl alcohol	55	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**62**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	60	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	64	(10 - 130)	SW846 8270C
Benzaldehyde	81	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	59	(36 - 116)	SW846 8270C
1,4-Dioxane	40	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	63	(24 - 112)
2-Fluorobiphenyl	63	(34 - 110)
Terphenyl-d14	76	(41 - 119)
Phenol-d5	68	(28 - 110)
2-Fluorophenol	72	(26 - 110)
2,4,6-Tribromophenol	65	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AF1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-046
Prep Date.....: 04/18/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**72**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**76**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**75**	**(43 - 110)**	**SW846 8270C**
Anthracene	**75**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**74**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**81**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**67**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**74**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**79**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**80**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**81**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**71**	**(19 - 110)**	**SW846 8270C**
Chrysene	**75**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**76**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**54**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**81**	**(54 - 122)**	**SW846 8270C**
Phenol	**77**	**(14 - 112)**	**SW846 8270C**
Fluorene	**75**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**78**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**78**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	77	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**79**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**89**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**75**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**71**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**75**	**(52 - 114)**	**SW846 8270C**
Pyrene	**76**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**74**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**72**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**78**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	80	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AF1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-046

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**76**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**78**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**78**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**77**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**54**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**71**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**80**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**50**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	51	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**83**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**74**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**80**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**75**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**80**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	47	(19 - 110)	SW846 8270C
3-Nitroaniline	**78**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	65	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**77**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	71	(10 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**38 a**	**(50 - 115)**	**SW846 8270C**
Butyl benzyl phthalate	**80**	**(53 - 126)**	**SW846 8270C**
Carbazole	**76**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**75**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**79**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**79**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**54**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**77**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**73**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**73**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AF1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-046

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**76**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**73**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**74**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**81**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	8.9 a	(10 - 110)	SW846 8270C
Benzoic acid	38	(10 - 129)	SW846 8270C
Pyridine	18	(10 - 110)	SW846 8270C
Atrazine	89	(50 - 130)	SW846 8270C
Acetophenone	67	(50 - 130)	SW846 8270C
1,1'-Biphenyl	63	(50 - 130)	SW846 8270C
Caprolactam	64	(50 - 130)	SW846 8270C
Aniline	62	(10 - 130)	SW846 8270C
Benzyl alcohol	74	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**73**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	76	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	67	(10 - 130)	SW846 8270C
Benzaldehyde	78	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	77	(25 - 128)	SW846 8270C
1,4-Dioxane	55	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
Terphenyl-d14	73	(37 - 119)
Phenol-d5	65	(10 - 110)
2-Fluorophenol	65	(10 - 110)
2,4,6-Tribromophenol	63	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-058
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108058
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**71**	**(46 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**65**	**(43 - 110)**	**SW846 8270C**
Acenaphthylene	**71**	**(47 - 110)**	**SW846 8270C**
Anthracene	**77**	**(56 - 111)**	**SW846 8270C**
Benzo(a)anthracene	**73**	**(58 - 111)**	**SW846 8270C**
2,4-Dinitrotoluene	**77**	**(55 - 116)**	**SW846 8270C**
Benzo(a)pyrene	**70**	**(44 - 115)**	**SW846 8270C**
Benzo(b)fluoranthene	**74**	**(43 - 124)**	**SW846 8270C**
Benzo(ghi)perylene	**77**	**(44 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**59**	**(40 - 114)**	**SW846 8270C**
Benzo(k)fluoranthene	**84**	**(38 - 122)**	**SW846 8270C**
1,4-Dichlorobenzene	**70**	**(38 - 110)**	**SW846 8270C**
Chrysene	**80**	**(56 - 111)**	**SW846 8270C**
Dibenz(a,h)anthracene	**75**	**(45 - 122)**	**SW846 8270C**
Pentachlorophenol	**58**	**(10 - 110)**	**SW846 8270C**
Fluoranthene	**74**	**(55 - 118)**	**SW846 8270C**
Phenol	**70**	**(39 - 110)**	**SW846 8270C**
Fluorene	**73**	**(51 - 110)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**77**	**(45 - 121)**	**SW846 8270C**
2-Chlorophenol	**74**	**(39 - 110)**	**SW846 8270C**
1-Methylnaphthalene	70	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**73**	**(42 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**82**	**(46 - 110)**	**SW846 8270C**
Naphthalene	**68**	**(42 - 110)**	**SW846 8270C**
4-Nitrophenol	**80**	**(24 - 117)**	**SW846 8270C**
Phenanthrene	**75**	**(54 - 110)**	**SW846 8270C**
Pyrene	**83**	**(58 - 113)**	**SW846 8270C**
1,2-Dichlorobenzene	**70**	**(42 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**67**	**(40 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**74**	**(42 - 110)**	**SW846 8270C**
4-Methylphenol	71	(40 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-058

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**68**	**(50 - 110)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**65**	**(42 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**66**	**(41 - 110)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**76**	**(36 - 116)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**87**	**(56 - 123)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**69**	**(37 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**74**	**(40 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**53**	**(28 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	52	(10 - 110)	SW846 8270C
2,6-Dinitrotoluene	**77**	**(54 - 115)**	**SW846 8270C**
2-Chloronaphthalene	**70**	**(46 - 110)**	**SW846 8270C**
2-Methylphenol	**67**	**(36 - 110)**	**SW846 8270C**
2-Nitroaniline	**62**	**(47 - 124)**	**SW846 8270C**
2-Nitrophenol	**73**	**(35 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	45	(31 - 110)	SW846 8270C
3-Nitroaniline	**60**	**(44 - 110)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	74	(21 - 110)	SW846 8270C
4-Bromophenyl phenyl ether	**71**	**(53 - 112)**	**SW846 8270C**
4-Chloroaniline	50	(25 - 110)	SW846 8270C
4-Chlorophenyl phenyl ether	**72**	**(53 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**90**	**(57 - 121)**	**SW846 8270C**
Carbazole	**76**	**(56 - 115)**	**SW846 8270C**
Dibenzofuran	**71**	**(50 - 110)**	**SW846 8270C**
Diethyl phthalate	**78**	**(55 - 114)**	**SW846 8270C**
Dimethyl phthalate	**74**	**(54 - 112)**	**SW846 8270C**
Di-n-octyl phthalate	**88**	**(45 - 123)**	**SW846 8270C**
Hexachlorobenzene	**68**	**(51 - 110)**	**SW846 8270C**
Hexachlorobutadiene	**66**	**(39 - 110)**	**SW846 8270C**
Hexachloroethane	**67**	**(38 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D180000-058

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**61**	**(46 - 117)**	**SW846 8270C**
Nitrobenzene	**63**	**(40 - 110)**	**SW846 8270C**
N-Nitrosodiphenylamine	**67**	**(54 - 112)**	**SW846 8270C**
Di-n-butyl phthalate	**78**	**(57 - 119)**	**SW846 8270C**
Hexachlorocyclopenta-diene	60	(10 - 110)	SW846 8270C
Benzoic acid	52	(10 - 124)	SW846 8270C
Pyridine	39	(22 - 110)	SW846 8270C
Atrazine	66	(50 - 130)	SW846 8270C
Acetophenone	59	(50 - 130)	SW846 8270C
1,1'-Biphenyl	59	(50 - 130)	SW846 8270C
Caprolactam	61	(50 - 130)	SW846 8270C
Aniline	43	(10 - 130)	SW846 8270C
Benzyl alcohol	70	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**52**	**(10 - 130)**	**SW846 8270C**
1,2-Dinitrobenzene	79	(10 - 130)	SW846 8270C
2,3,5,6-Tetrachlorophenol	69	(10 - 130)	SW846 8270C
Benzaldehyde	88	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	76	(36 - 116)	SW846 8270C
1,4-Dioxane	26	(10 - 110)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	54	(24 - 112)
2-Fluorobiphenyl	58	(34 - 110)
Terphenyl-d14	76	(41 - 119)
Phenol-d5	59	(28 - 110)
2-Fluorophenol	61	(26 - 110)
2,4,6-Tribromophenol	53	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHHCM1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D260000-105
Prep Date.....: 04/25/11 **Analysis Date..:** 04/25/11
Prep Batch #...: 1116105
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**115**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	107	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM8Q1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D290000-100
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119100
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**108**	**(72 - 140)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	106	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MHM8R1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D290000-101
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**78**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	95	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MH2GL1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1E060000-188
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**122**	**(60 - 142)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	109	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AJ1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-051
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108051
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**98**	**(41 - 149)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	58	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6N71AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-041
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**113**	**(37 - 153)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	47	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5AE1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1D180000-044
Prep Date.....: 04/18/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1108044
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**84**	**(44 - 119)**	**SW846 8082**
Aroclor 1260	**73**	**(41 - 118)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	81	(27 - 130)
Decachlorobiphenyl	27	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6PE1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-046
Prep Date.....: 04/19/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1109046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**104**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**127**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	104	(10 - 196)
Decachlorobiphenyl	139	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG6PF1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A1D190000-047
Prep Date.....: 04/19/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1109047
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Aroclor 1016	**80**	**(34 - 127)**	**SW846 8082**
Aroclor 1260	**94**	**(32 - 141)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	85	(10 - 196)
Decachlorobiphenyl	106	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D180000-017 **Prep Batch #...:** 1108017					
Arsenic	90	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841DH
Lead	91	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841DT
Selenium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841D0
Barium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841D7
Cadmium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841D8
Chromium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841D9
Silver	89	(80 - 120)	SW846 6010B Dilution Factor: 1	04/18-04/19/11	MG4841EA
Mercury	108	(81 - 123)	SW846 7470A Dilution Factor: 1	04/19-04/20/11	MG4841D6

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1D200000-023 **Prep Batch #...:** 1110023					
Arsenic	94	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AL
		Dilution Factor: 1			
Lead	97	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AM
		Dilution Factor: 1			
Selenium	94	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AN
		Dilution Factor: 1			
Barium	99	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AP
		Dilution Factor: 1			
Cadmium	97	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AQ
		Dilution Factor: 1			
Chromium	100	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AR
		Dilution Factor: 1			
Silver	95	(80 - 120)	SW846 6010B	04/20-04/22/11	MG8RN1AT
		Dilution Factor: 1			
Mercury	100	(73 - 121)	SW846 7471A	04/20-04/21/11	MG8RN1AK
		Dilution Factor: 1			
LCS Lot-Sample#: A1D210000-027 **Prep Batch #...:** 1111027					
Arsenic	92	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81AM
		Dilution Factor: 1			
Lead	96	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81AQ
		Dilution Factor: 1			
Selenium	94	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81AR
		Dilution Factor: 1			
Barium	98	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81AT
		Dilution Factor: 1			
Cadmium	97	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81AX
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	98	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81A0
		Dilution Factor: 1			
Silver	96	(80 - 120)	SW846 6010B	04/21-04/22/11	MHAG81A1
		Dilution Factor: 1			
Mercury	98	(73 - 121)	SW846 7471A	04/21-04/26/11	MHAG81AK
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3QA1AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-028 MG3QA1AP-MSD
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
Prep Date.....: 04/20/11 **Analysis Date..:** 04/20/11
Prep Batch #...: 1111160
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	115	(10 - 142)			SW846 8260A
	71 p	(10 - 142)	42	(0-30)	SW846 8260A
Benzene	**69**	**(10 - 199)**			**SW846 8260A**
	90	**(10 - 199)**	**26**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**76**	**(18 - 133)**			**SW846 8260A**
	87	**(18 - 133)**	**14**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	66	(29 - 139)			SW846 8260A
	89	(29 - 139)	30	(0-30)	SW846 8260A
Bromoform	98	(10 - 147)			SW846 8260A
	89	(10 - 147)	9.7	(0-30)	SW846 8260A
Bromomethane	39	(10 - 151)			SW846 8260A
	64 p	(10 - 151)	48	(0-30)	SW846 8260A
2-Butanone	**128**	**(10 - 172)**			**SW846 8260A**
	84 p	**(10 - 172)**	**40**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**55**	**(10 - 155)**			**SW846 8260A**
	85 p	**(10 - 155)**	**44**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**43**	**(12 - 135)**			**SW846 8260A**
	78 p	**(12 - 135)**	**57**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**69**	**(47 - 118)**			**SW846 8260A**
	88	**(47 - 118)**	**25**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**83**	**(10 - 128)**			**SW846 8260A**
	92	**(10 - 128)**	**9.5**	**(0-30)**	**SW846 8260A**
Chloroethane	75	(10 - 168)			SW846 8260A
	137 p	(10 - 168)	58	(0-30)	SW846 8260A
Chloroform	**77**	**(51 - 120)**			**SW846 8260A**
	94	**(51 - 120)**	**20**	**(0-30)**	**SW846 8260A**
Cyclohexane	50	(10 - 154)			SW846 8260A
	87 p	(10 - 154)	55	(0-30)	SW846 8260A
Chloromethane	51	(16 - 115)			SW846 8260A
	72 p	(16 - 115)	35	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**102**	**(10 - 137)**			**SW846 8260A**
	87	**(10 - 137)**	**16**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**105**	**(32 - 127)**			**SW846 8260A**
	102	**(32 - 127)**	**2.9**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	61	(23 - 168)			SW846 8260A
	98 p	(23 - 168)	46	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3QA1AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-028 MG3QA1AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	126	(10 - 175)			SW846 8260A
	84 p	(10 - 175)	40	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**71**	**(27 - 126)**			**SW846 8260A**
	80	**(27 - 126)**	**12**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	46	(11 - 156)			SW846 8260A
	84 p	(11 - 156)	58	(0-30)	SW846 8260A
o-Xylene	**70**	**(18 - 151)**			**SW846 8260A**
	100 p	**(18 - 151)**	**36**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**69**	**(14 - 151)**			**SW846 8260A**
	98 p	**(14 - 151)**	**35**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**64**	**(29 - 124)**			**SW846 8260A**
	80	**(29 - 124)**	**22**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	78	(10 - 137)			SW846 8260A
	79	(10 - 137)	0.56	(0-30)	SW846 8260A
Acetonitrile	135	(10 - 173)			SW846 8260A
	87 p	(10 - 173)	43	(0-30)	SW846 8260A
Acrolein	23	(10 - 145)			SW846 8260A
	15 p	(10 - 145)	46	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**64**	**(30 - 123)**			**SW846 8260A**
	77	**(30 - 123)**	**18**	**(0-30)**	**SW846 8260A**
Acrylonitrile	128 a	(28 - 126)			SW846 8260A
	85 p	(28 - 126)	41	(0-30)	SW846 8260A
Cyclohexanone	149	(10 - 199)			SW846 8260A
	114	(10 - 199)	27	(0-30)	SW846 8260A
Bromobenzene	**77**	**(49 - 119)**			**SW846 8260A**
	100	**(49 - 119)**	**26**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**91**	**(42 - 123)**			**SW846 8260A**
	93	**(42 - 123)**	**2.4**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	39	(10 - 113)			SW846 8260A
	61 p	(10 - 113)	43	(0-30)	SW846 8260A
n-Butylbenzene	**41**	**(13 - 154)**			**SW846 8260A**
	77 p	**(13 - 154)**	**61**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**49**	**(41 - 133)**			**SW846 8260A**
	90 p	**(41 - 133)**	**60**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**51**	**(45 - 132)**			**SW846 8260A**
	93 p	**(45 - 132)**	**59**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**69**	**(18 - 160)**			**SW846 8260A**
	91	**(18 - 160)**	**28**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**67**	**(51 - 118)**			**SW846 8260A**
	99 p	**(51 - 118)**	**39**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**68**	**(43 - 120)**			**SW846 8260A**
	94 p	**(43 - 120)**	**32**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3QA1AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-028 MG3QA1AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromomethane	**102**	**(45 - 121)**			**SW846 8260A**
	100	**(45 - 121)**	**2.3**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**88**	**(25 - 150)**			**SW846 8260A**
	90	**(25 - 150)**	**2.2**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**101**	**(58 - 117)**			**SW846 8260A**
	105	**(58 - 117)**	**3.1**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	58	(26 - 127)			SW846 8260A
	90 p	(26 - 127)	44	(0-30)	SW846 8260A
1,1-Dichloropropene	**57**	**(42 - 126)**			**SW846 8260A**
	90 p	**(42 - 126)**	**46**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	35	(10 - 134)			SW846 8260A
	63 p	(10 - 134)	57	(0-30)	SW846 8260A
cis-1,2-Dichloroethene	**69**	**(34 - 137)**			**SW846 8260A**
	90	**(34 - 137)**	**27**	**(0-30)**	**SW846 8260A**
Iodomethane	72	(27 - 140)			SW846 8260A
	110 p	(27 - 140)	41	(0-30)	SW846 8260A
Isopropyl ether	69	(63 - 111)			SW846 8260A
	88	(63 - 111)	24	(0-30)	SW846 8260A
p-Isopropyltoluene	**51**	**(33 - 139)**			**SW846 8260A**
	91 p	**(33 - 139)**	**56**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**63**	**(40 - 126)**			**SW846 8260A**
	88 p	**(40 - 126)**	**33**	**(0-30)**	**SW846 8260A**
Naphthalene	52	(10 - 199)			SW846 8260A
	44	(10 - 199)	15	(0-30)	SW846 8260A
n-Propylbenzene	**59**	**(41 - 135)**			**SW846 8260A**
	96 p	**(41 - 135)**	**47**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**80**	**(19 - 124)**			**SW846 8260A**
	98	**(19 - 124)**	**20**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethene	**55**	**(10 - 179)**			**SW846 8260A**
	85 p	**(10 - 179)**	**43**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	48	(10 - 123)			SW846 8260A
	44	(10 - 123)	7.4	(0-30)	SW846 8260A
1,2,3-Trichloropropane	**127**	**(54 - 142)**			**SW846 8260A**
	112	**(54 - 142)**	**13**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**63**	**(10 - 199)**			**SW846 8260A**
	94 p	**(10 - 199)**	**40**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**59**	**(10 - 173)**			**SW846 8260A**
	94 p	**(10 - 173)**	**46**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**77**	**(58 - 118)**			**SW846 8260A**
	96	**(58 - 118)**	**21**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3QA1AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-028 MG3QA1AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro-1,2,2-trifluoroethane	61	(23 - 168)			SW846 8260A
	98 p	(23 - 168)	46	(0-30)	SW846 8260A
cis-1,3-Dichloropropene	**78**	**(19 - 121)**			**SW846 8260A**
	90	**(19 - 121)**	**15**	**(0-30)**	**SW846 8260A**
trans-1,3-Dichloropropene	**93**	**(10 - 136)**			**SW846 8260A**
	105	**(10 - 136)**	**12**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**60**	**(27 - 143)**			**SW846 8260A**
	93 p	**(27 - 143)**	**44**	**(0-30)**	**SW846 8260A**
n-Hexane	48	(18 - 148)			SW846 8260A
	91 p	(18 - 148)	62	(0-30)	SW846 8260A
2-Hexanone	**123**	**(21 - 141)**			**SW846 8260A**
	92	**(21 - 141)**	**30**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**54**	**(39 - 126)**			**SW846 8260A**
	87 p	**(39 - 126)**	**47**	**(0-30)**	**SW846 8260A**
Methylene chloride	**70**	**(10 - 148)**			**SW846 8260A**
	80	**(10 - 148)**	**13**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**124**	**(19 - 151)**			**SW846 8260A**
	99	**(19 - 151)**	**23**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**105**	**(26 - 159)**			**SW846 8260A**
	103	**(26 - 159)**	**2.1**	**(0-30)**	**SW846 8260A**
Styrene	**69**	**(31 - 137)**			**SW846 8260A**
	91	**(31 - 137)**	**27**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**111**	**(16 - 158)**			**SW846 8260A**
	105	**(16 - 158)**	**6.0**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**58**	**(19 - 153)**			**SW846 8260A**
	87 p	**(19 - 153)**	**40**	**(0-30)**	**SW846 8260A**
Toluene	**67**	**(10 - 168)**			**SW846 8260A**
	95 p	**(10 - 168)**	**34**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	45	(10 - 136)			SW846 8260A
	45	(10 - 136)	0.10	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**59**	**(10 - 159)**			**SW846 8260A**
	89 p	**(10 - 159)**	**40**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**105**	**(34 - 152)**			**SW846 8260A**
	105	**(34 - 152)**	**0.52**	**(0-30)**	**SW846 8260A**
Trichloroethene	**60**	**(10 - 193)**			**SW846 8260A**
	84 p	**(10 - 193)**	**33**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	57	(10 - 157)			SW846 8260A
	90 p	(10 - 157)	45	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3QA1AN-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-028 MG3QA1AP-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**50**	**(15 - 123)**			**SW846 8260A**
	81 p	**(15 - 123)**	**48**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**69**	**(16 - 150)**			**SW846 8260A**
	99 p	**(16 - 150)**	**35**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(30 - 122)
	89	(30 - 122)
1,2-Dichloroethane-d4	94	(39 - 128)
	86	(39 - 128)
Toluene-d8	97	(33 - 134)
	104	(33 - 134)
4-Bromofluorobenzene	105	(26 - 141)
	108	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3PV1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-023 MG3PV1AF-MSD
Date Sampled...: 04/14/11 12:30 **Date Received..:** 04/15/11
Prep Date.....: 04/21/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1116078
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	68	(10 - 142)			SW846 8260A
	50	(10 - 142)	25	(0-30)	SW846 8260A
Benzene	**91**	**(10 - 199)**			**SW846 8260A**
	95	**(10 - 199)**	**3.7**	**(0-30)**	**SW846 8260A**
Bromodichloromethane	**51**	**(18 - 133)**			**SW846 8260A**
	53	**(18 - 133)**	**3.7**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethene (total)	89	(29 - 139)			SW846 8260A
	94	(29 - 139)	5.2	(0-30)	SW846 8260A
Bromoform	34	(10 - 147)			SW846 8260A
	34	(10 - 147)	0.37	(0-30)	SW846 8260A
Bromomethane	36	(10 - 151)			SW846 8260A
	40	(10 - 151)	11	(0-30)	SW846 8260A
2-Butanone	**74**	**(10 - 172)**			**SW846 8260A**
	61	**(10 - 172)**	**18**	**(0-30)**	**SW846 8260A**
Carbon disulfide	**84**	**(10 - 155)**			**SW846 8260A**
	98	**(10 - 155)**	**15**	**(0-30)**	**SW846 8260A**
Carbon tetrachloride	**55**	**(12 - 135)**			**SW846 8260A**
	66	**(12 - 135)**	**19**	**(0-30)**	**SW846 8260A**
Chlorobenzene	**88**	**(47 - 118)**			**SW846 8260A**
	93	**(47 - 118)**	**5.8**	**(0-30)**	**SW846 8260A**
Dibromochloromethane	**45**	**(10 - 128)**			**SW846 8260A**
	44	**(10 - 128)**	**0.03**	**(0-30)**	**SW846 8260A**
Chloroethane	147	(10 - 168)			SW846 8260A
	229 a,p	(10 - 168)	44	(0-30)	SW846 8260A
Chloroform	**97**	**(51 - 120)**			**SW846 8260A**
	98	**(51 - 120)**	**0.53**	**(0-30)**	**SW846 8260A**
Cyclohexane	73	(10 - 154)			SW846 8260A
	86	(10 - 154)	16	(0-30)	SW846 8260A
Chloromethane	63	(16 - 115)			SW846 8260A
	67	(16 - 115)	4.9	(0-30)	SW846 8260A
1,2-Dibromo-3-chloro-propane	**76**	**(10 - 137)**			**SW846 8260A**
	75	**(10 - 137)**	**0.73**	**(0-30)**	**SW846 8260A**
1,2-Dibromoethane	**102**	**(32 - 127)**			**SW846 8260A**
	96	**(32 - 127)**	**5.4**	**(0-30)**	**SW846 8260A**
Trichlorotrifluoroethane	91	(23 - 168)			SW846 8260A
	99	(23 - 168)	7.9	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3PV1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-023 MG3PV1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl acetate	65	(10 - 175)			SW846 8260A
	56	(10 - 175)	16	(0-30)	SW846 8260A
1,2-Dichlorobenzene	**83**	**(27 - 126)**			**SW846 8260A**
	89	**(27 - 126)**	**7.7**	**(0-30)**	**SW846 8260A**
Methylcyclohexane	58	(11 - 156)			SW846 8260A
	73	(11 - 156)	23	(0-30)	SW846 8260A
o-Xylene	**97**	**(18 - 151)**			**SW846 8260A**
	106	**(18 - 151)**	**9.5**	**(0-30)**	**SW846 8260A**
m-Xylene & p-Xylene	**97**	**(14 - 151)**			**SW846 8260A**
	106	**(14 - 151)**	**8.6**	**(0-30)**	**SW846 8260A**
1,3-Dichlorobenzene	**84**	**(29 - 124)**			**SW846 8260A**
	96	**(29 - 124)**	**13**	**(0-30)**	**SW846 8260A**
2-Chloroethyl vinyl ether	75	(10 - 137)			SW846 8260A
	69	(10 - 137)	7.6	(0-30)	SW846 8260A
Acetonitrile	97	(10 - 173)			SW846 8260A
	83	(10 - 173)	15	(0-30)	SW846 8260A
Acrolein	2.1 a	(10 - 145)			SW846 8260A
	2.1 a	(10 - 145)	0.38	(0-30)	SW846 8260A
1,4-Dichlorobenzene	**80**	**(30 - 123)**			**SW846 8260A**
	88	**(30 - 123)**	**9.2**	**(0-30)**	**SW846 8260A**
Acrylonitrile	78	(28 - 126)			SW846 8260A
	68	(28 - 126)	14	(0-30)	SW846 8260A
Cyclohexanone	127	(10 - 199)			SW846 8260A
	115	(10 - 199)	9.6	(0-30)	SW846 8260A
Bromobenzene	**110**	**(49 - 119)**			**SW846 8260A**
	118	**(49 - 119)**	**6.7**	**(0-30)**	**SW846 8260A**
Bromochloromethane	**118**	**(42 - 123)**			**SW846 8260A**
	116	**(42 - 123)**	**1.7**	**(0-30)**	**SW846 8260A**
Dichlorodifluoromethane	55	(10 - 113)			SW846 8260A
	60	(10 - 113)	9.1	(0-30)	SW846 8260A
n-Butylbenzene	**61**	**(13 - 154)**			**SW846 8260A**
	88 p	**(13 - 154)**	**36**	**(0-30)**	**SW846 8260A**
sec-Butylbenzene	**76**	**(41 - 133)**			**SW846 8260A**
	106 p	**(41 - 133)**	**32**	**(0-30)**	**SW846 8260A**
tert-Butylbenzene	**85**	**(45 - 132)**			**SW846 8260A**
	111	**(45 - 132)**	**26**	**(0-30)**	**SW846 8260A**
1,1-Dichloroethane	**90**	**(18 - 160)**			**SW846 8260A**
	95	**(18 - 160)**	**4.8**	**(0-30)**	**SW846 8260A**
2-Chlorotoluene	**106**	**(51 - 118)**			**SW846 8260A**
	125 a	**(51 - 118)**	**16**	**(0-30)**	**SW846 8260A**
4-Chlorotoluene	**104**	**(43 - 120)**			**SW846 8260A**
	122 a	**(43 - 120)**	**16**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3PV1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-023 MG3PV1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dibromomethane	**129 a**	**(45 - 121)**			**SW846 8260A**
	122 a	**(45 - 121)**	**5.7**	**(0-30)**	**SW846 8260A**
1,3-Dichloropropane	**108**	**(58 - 117)**			**SW846 8260A**
	107	**(58 - 117)**	**1.2**	**(0-30)**	**SW846 8260A**
1,2-Dichloroethane	**94**	**(25 - 150)**			**SW846 8260A**
	90	**(25 - 150)**	**4.9**	**(0-30)**	**SW846 8260A**
2,2-Dichloropropane	88	(26 - 127)			SW846 8260A
	94	(26 - 127)	6.7	(0-30)	SW846 8260A
1,1-Dichloropropene	**85**	**(42 - 126)**			**SW846 8260A**
	92	**(42 - 126)**	**8.4**	**(0-30)**	**SW846 8260A**
Hexachlorobutadiene	34	(10 - 134)			SW846 8260A
	60 p	(10 - 134)	54	(0-30)	SW846 8260A
cis-1,2-Dichloroethene	**89**	**(34 - 137)**			**SW846 8260A**
	94	**(34 - 137)**	**5.2**	**(0-30)**	**SW846 8260A**
Iodomethane	57	(27 - 140)			SW846 8260A
	71	(27 - 140)	22	(0-30)	SW846 8260A
Isopropyl ether	84	(63 - 111)			SW846 8260A
	89	(63 - 111)	5.6	(0-30)	SW846 8260A
p-Isopropyltoluene	**80**	**(33 - 139)**			**SW846 8260A**
	106	**(33 - 139)**	**28**	**(0-30)**	**SW846 8260A**
trans-1,2-Dichloroethene	**89**	**(40 - 126)**			**SW846 8260A**
	93	**(40 - 126)**	**5.1**	**(0-30)**	**SW846 8260A**
Naphthalene	32	(10 - 199)			SW846 8260A
	34	(10 - 199)	4.7	(0-30)	SW846 8260A
n-Propylbenzene	**100**	**(41 - 135)**			**SW846 8260A**
	124	**(41 - 135)**	**22**	**(0-30)**	**SW846 8260A**
1,1,1,2-Tetrachloroethane	**87**	**(19 - 124)**			**SW846 8260A**
	92	**(19 - 124)**	**5.5**	**(0-30)**	**SW846 8260A**
1,2,3-Trichlorobenzene	35	(10 - 123)			SW846 8260A
	41	(10 - 123)	16	(0-30)	SW846 8260A
1,1-Dichloroethene	**82**	**(10 - 179)**			**SW846 8260A**
	88	**(10 - 179)**	**7.2**	**(0-30)**	**SW846 8260A**
1,2,3-Trichloropropane	**131**	**(54 - 142)**			**SW846 8260A**
	123	**(54 - 142)**	**6.7**	**(0-30)**	**SW846 8260A**
1,2,4-Trimethylbenzene	**97**	**(10 - 199)**			**SW846 8260A**
	115	**(10 - 199)**	**17**	**(0-30)**	**SW846 8260A**
1,3,5-Trimethylbenzene	**96**	**(10 - 173)**			**SW846 8260A**
	118	**(10 - 173)**	**20**	**(0-30)**	**SW846 8260A**
1,2-Dichloropropane	**93**	**(58 - 118)**			**SW846 8260A**
	96	**(58 - 118)**	**2.7**	**(0-30)**	**SW846 8260A**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3PV1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-023 MG3PV1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1,2-Trichloro-1,2,2-trifluoroethane	91	(23 - 168)			SW846 8260A
	99	(23 - 168)	7.9	(0-30)	SW846 8260A
cis-1,3-Dichloropropene	**65**	**(19 - 121)**			**SW846 8260A**
	67	**(19 - 121)**	**2.7**	**(0-30)**	**SW846 8260A**
trans-1,3-Dichloropropene	**80**	**(10 - 136)**			**SW846 8260A**
	80	**(10 - 136)**	**0.26**	**(0-30)**	**SW846 8260A**
Ethylbenzene	**90**	**(27 - 143)**			**SW846 8260A**
	103	**(27 - 143)**	**14**	**(0-30)**	**SW846 8260A**
n-Hexane	60	(18 - 148)			SW846 8260A
	78	(18 - 148)	25	(0-30)	SW846 8260A
2-Hexanone	**79**	**(21 - 141)**			**SW846 8260A**
	73	**(21 - 141)**	**8.8**	**(0-30)**	**SW846 8260A**
Isopropylbenzene	**79**	**(39 - 126)**			**SW846 8260A**
	93	**(39 - 126)**	**17**	**(0-30)**	**SW846 8260A**
Methylene chloride	**97**	**(10 - 148)**			**SW846 8260A**
	99	**(10 - 148)**	**1.3**	**(0-30)**	**SW846 8260A**
4-Methyl-2-pentanone	**98**	**(19 - 151)**			**SW846 8260A**
	89	**(19 - 151)**	**10**	**(0-30)**	**SW846 8260A**
Methyl tert-butyl ether (	**103**	**(26 - 159)**			**SW846 8260A**
	102	**(26 - 159)**	**1.4**	**(0-30)**	**SW846 8260A**
Styrene	**87**	**(31 - 137)**			**SW846 8260A**
	95	**(31 - 137)**	**8.6**	**(0-30)**	**SW846 8260A**
1,1,2,2-Tetrachloroethane	**124**	**(16 - 158)**			**SW846 8260A**
	115	**(16 - 158)**	**7.7**	**(0-30)**	**SW846 8260A**
Tetrachloroethene	**86**	**(19 - 153)**			**SW846 8260A**
	100	**(19 - 153)**	**15**	**(0-30)**	**SW846 8260A**
Toluene	**97**	**(10 - 168)**			**SW846 8260A**
	106	**(10 - 168)**	**8.0**	**(0-30)**	**SW846 8260A**
1,2,4-Trichloro-benzene	38	(10 - 136)			SW846 8260A
	44	(10 - 136)	14	(0-30)	SW846 8260A
1,1,1-Trichloroethane	**85**	**(10 - 159)**			**SW846 8260A**
	93	**(10 - 159)**	**9.2**	**(0-30)**	**SW846 8260A**
1,1,2-Trichloroethane	**114**	**(34 - 152)**			**SW846 8260A**
	113	**(34 - 152)**	**0.88**	**(0-30)**	**SW846 8260A**
Trichloroethene	**82**	**(10 - 193)**			**SW846 8260A**
	87	**(10 - 193)**	**6.4**	**(0-30)**	**SW846 8260A**
Trichlorofluoromethane	81	(10 - 157)			SW846 8260A
	90	(10 - 157)	9.7	(0-30)	SW846 8260A

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3PV1AE-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-023 MG3PV1AF-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Vinyl chloride	**77**	**(15 - 123)**			**SW846 8260A**
	83	**(15 - 123)**	**8.6**	**(0-30)**	**SW846 8260A**
Xylenes (total)	**97**	**(16 - 150)**			**SW846 8260A**
	106	**(16 - 150)**	**8.9**	**(0-30)**	**SW846 8260A**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(30 - 122)
	93	(30 - 122)
1,2-Dichloroethane-d4	88	(39 - 128)
	85	(39 - 128)
Toluene-d8	107	(33 - 134)
	111	(33 - 134)
4-Bromofluorobenzene	122	(26 - 141)
	126	(26 - 141)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG1DK1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140437-011 MG1DK1AD-MSD
Date Sampled...: 04/13/11 08:30 **Date Received..:** 04/14/11
Prep Date.....: 04/22/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1116383
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	64	(33 - 145)			SW846 8260B
	72	(33 - 145)	12	(0-30)	SW846 8260B
Benzene	**106**	**(72 - 121)**			**SW846 8260B**
	116	**(72 - 121)**	**2.6**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**101**	**(67 - 120)**			**SW846 8260B**
	98	**(67 - 120)**	**2.8**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	85	(75 - 119)			SW846 8260B
	90	(75 - 119)	5.5	(0-30)	SW846 8260B
Bromoform	90	(32 - 128)			SW846 8260B
	96	(32 - 128)	6.6	(0-30)	SW846 8260B
Bromomethane	45	(10 - 186)			SW846 8260B
	62 p	(10 - 186)	32	(0-30)	SW846 8260B
2-Butanone	**86**	**(54 - 129)**			**SW846 8260B**
	90	**(54 - 129)**	**3.8**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**103**	**(57 - 147)**			**SW846 8260B**
	95	**(57 - 147)**	**6.6**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**85**	**(59 - 129)**			**SW846 8260B**
	90	**(59 - 129)**	**5.2**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**92**	**(80 - 110)**			**SW846 8260B**
	95	**(80 - 110)**	**3.1**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**96**	**(56 - 118)**			**SW846 8260B**
	99	**(56 - 118)**	**2.9**	**(0-30)**	**SW846 8260B**
Chloroethane	98	(21 - 165)			SW846 8260B
	112	(21 - 165)	13	(0-30)	SW846 8260B
Chloroform	**84**	**(76 - 118)**			**SW846 8260B**
	86	**(76 - 118)**	**2.9**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	95	(70 - 152)			SW846 8260B
	100	(70 - 152)	5.7	(0-30)	SW846 8260B
Methyl acetate	71	(47 - 130)			SW846 8260B
	78	(47 - 130)	9.4	(0-30)	SW846 8260B
Chloromethane	38	(33 - 132)			SW846 8260B
	44	(33 - 132)	14	(0-30)	SW846 8260B
Cyclohexane	82	(49 - 123)			SW846 8260B
	88	(49 - 123)	7.2	(0-30)	SW846 8260B
Methylcyclohexane	88	(49 - 127)			SW846 8260B
	93	(49 - 127)	6.0	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG1DK1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140437-011 MG1DK1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**76**	**(32 - 139)**			**SW846 8260B**
	85	**(32 - 139)**	**11**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**95**	**(74 - 113)**			**SW846 8260B**
	98	**(74 - 113)**	**2.8**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**84**	**(75 - 111)**			**SW846 8260B**
	89	**(75 - 111)**	**5.0**	**(0-30)**	**SW846 8260B**
o-Xylene	**92**	**(76 - 116)**			**SW846 8260B**
	101	**(76 - 116)**	**8.2**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**92**	**(73 - 110)**			**SW846 8260B**
	94	**(73 - 110)**	**2.0**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**95**	**(75 - 117)**			**SW846 8260B**
	100	**(75 - 117)**	**5.2**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	65	(12 - 182)			SW846 8260B
	73	(12 - 182)	11	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**88**	**(75 - 110)**			**SW846 8260B**
	91	**(75 - 110)**	**3.5**	**(0-30)**	**SW846 8260B**
Acrolein	73	(47 - 168)			SW846 8260B
	85	(47 - 168)	15	(0-30)	SW846 8260B
Acrylonitrile	84	(62 - 133)			SW846 8260B
	86	(62 - 133)	2.2	(0-30)	SW846 8260B
Vinyl acetate	122	(43 - 157)			SW846 8260B
	122	(43 - 157)	0.16	(0-30)	SW846 8260B
Bromobenzene	**98**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**1.3**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	41	(17 - 128)			SW846 8260B
	43	(17 - 128)	4.7	(0-30)	SW846 8260B
Bromochloromethane	**90**	**(73 - 121)**			**SW846 8260B**
	94	**(73 - 121)**	**4.4**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**74**	**(56 - 127)**			**SW846 8260B**
	78	**(56 - 127)**	**4.9**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**79**	**(60 - 119)**			**SW846 8260B**
	81	**(60 - 119)**	**2.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**80**	**(79 - 116)**			**SW846 8260B**
	84	**(79 - 116)**	**4.3**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**78**	**(61 - 119)**			**SW846 8260B**
	82	**(61 - 119)**	**4.4**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**94**	**(69 - 117)**			**SW846 8260B**
	92	**(69 - 117)**	**2.5**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG1DK1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140437-011 MG1DK1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**97**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**1.7**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**91**	**(68 - 129)**			**SW846 8260B**
	92	**(68 - 129)**	**0.38**	**(0-30)**	**SW846 8260B**
Dibromomethane	**97**	**(77 - 121)**			**SW846 8260B**
	100	**(77 - 121)**	**3.3**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**101**	**(74 - 118)**			**SW846 8260B**
	101	**(74 - 118)**	**0.37**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	67	(38 - 127)			SW846 8260B
	75	(38 - 127)	11	(0-30)	SW846 8260B
1,1-Dichloropropene	**91**	**(80 - 114)**			**SW846 8260B**
	95	**(80 - 114)**	**4.7**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**86**	**(70 - 120)**			**SW846 8260B**
	91	**(70 - 120)**	**5.7**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	73	(27 - 132)			SW846 8260B
	78	(27 - 132)	7.4	(0-30)	SW846 8260B
Iodomethane	99	(66 - 144)			SW846 8260B
	106	(66 - 144)	6.3	(0-30)	SW846 8260B
Isopropyl ether	79	(73 - 118)			SW846 8260B
	83	(73 - 118)	5.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**83**	**(80 - 119)**			**SW846 8260B**
	88	**(80 - 119)**	**5.2**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**92**	**(64 - 122)**			**SW846 8260B**
	94	**(64 - 122)**	**3.0**	**(0-30)**	**SW846 8260B**
Naphthalene	58	(15 - 158)			SW846 8260B
	60	(15 - 158)	4.3	(0-30)	SW846 8260B
n-Propylbenzene	**92**	**(64 - 124)**			**SW846 8260B**
	92	**(64 - 124)**	**0.33**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**82**	**(74 - 135)**			**SW846 8260B**
	86	**(74 - 135)**	**5.0**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**81**	**(64 - 118)**			**SW846 8260B**
	84	**(64 - 118)**	**4.0**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	78	(45 - 129)			SW846 8260B
	82	(45 - 129)	4.2	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**95**	**(67 - 132)**			**SW846 8260B**
	94	**(67 - 132)**	**0.84**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**82**	**(67 - 124)**			**SW846 8260B**
	86	**(67 - 124)**	**4.3**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**95**	**(78 - 115)**			**SW846 8260B**
	97	**(78 - 115)**	**1.4**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**81**	**(63 - 121)**			**SW846 8260B**
	83	**(63 - 121)**	**2.3**	**(0-30)**	**SW846 8260B**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG1DK1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140437-011 MG1DK1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**83**	**(51 - 110)**			**SW846 8260B**
	84	**(51 - 110)**	**1.4**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**79**	**(46 - 116)**			**SW846 8260B**
	82	**(46 - 116)**	**4.3**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**97**	**(75 - 116)**			**SW846 8260B**
	104	**(75 - 116)**	**7.2**	**(0-30)**	**SW846 8260B**
n-Hexane	104	(54 - 138)			SW846 8260B
	111	(54 - 138)	6.6	(0-30)	SW846 8260B
2-Hexanone	**104**	**(47 - 139)**			**SW846 8260B**
	113	**(47 - 139)**	**8.0**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**75**	**(68 - 116)**			**SW846 8260B**
	82	**(68 - 116)**	**8.5**	**(0-30)**	**SW846 8260B**
Methylene chloride	**77**	**(63 - 128)**			**SW846 8260B**
	82	**(63 - 128)**	**5.7**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**109**	**(56 - 131)**			**SW846 8260B**
	109	**(56 - 131)**	**0.55**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**66**	**(46 - 144)**			**SW846 8260B**
	71	**(46 - 144)**	**7.9**	**(0-30)**	**SW846 8260B**
Styrene	**89**	**(71 - 117)**			**SW846 8260B**
	94	**(71 - 117)**	**6.4**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**90**	**(63 - 122)**			**SW846 8260B**
	92	**(63 - 122)**	**1.7**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**96**	**(70 - 117)**			**SW846 8260B**
	101	**(70 - 117)**	**4.9**	**(0-30)**	**SW846 8260B**
Toluene	**95**	**(78 - 114)**			**SW846 8260B**
	96	**(78 - 114)**	**1.5**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	73	(38 - 138)			SW846 8260B
	77	(38 - 138)	4.7	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**75**	**(68 - 121)**			**SW846 8260B**
	80	**(68 - 121)**	**5.8**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**100**	**(75 - 115)**			**SW846 8260B**
	104	**(75 - 115)**	**3.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**100**	**(66 - 120)**			**SW846 8260B**
	102	**(66 - 120)**	**2.6**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	85	(46 - 157)			SW846 8260B
	97	(46 - 157)	14	(0-30)	SW846 8260B
Vinyl chloride	**63**	**(49 - 130)**			**SW846 8260B**
	66	**(49 - 130)**	**3.9**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG1DK1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140437-011 MG1DK1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**94**	**(76 - 116)**			**SW846 8260B**
	100	**(76 - 116)**	**6.2**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
	96	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	91	(63 - 129)
Toluene-d8	99	(74 - 115)
	103	(74 - 115)
4-Bromofluorobenzene	98	(66 - 117)
	106	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AR-MSD
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/27/11
Prep Batch #...: 1105331
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**50**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**3.7**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**49**	**(33 - 110)**			**SW846 8270C**
	52	**(33 - 110)**	**4.9**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**52**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**5.6**	**(0-30)**	**SW846 8270C**
Anthracene	**51**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**0.66**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**53**	**(10 - 200)**			**SW846 8270C**
	53	**(10 - 200)**	**1.3**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**57**	**(42 - 118)**			**SW846 8270C**
	54	**(42 - 118)**	**5.1**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**49**	**(10 - 200)**			**SW846 8270C**
	49	**(10 - 200)**	**1.2**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**55**	**(10 - 200)**			**SW846 8270C**
	52	**(10 - 200)**	**6.2**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**57**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**1.3**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**53**	**(30 - 121)**			**SW846 8270C**
	51	**(30 - 121)**	**3.0**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**54**	**(10 - 200)**			**SW846 8270C**
	57	**(10 - 200)**	**5.3**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**47**	**(26 - 110)**			**SW846 8270C**
	49	**(26 - 110)**	**4.9**	**(0-30)**	**SW846 8270C**
Chrysene	**56**	**(10 - 200)**			**SW846 8270C**
	58	**(10 - 200)**	**3.4**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**57**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**1.9**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**35**	**(10 - 182)**			**SW846 8270C**
	16 p	**(10 - 182)**	**74**	**(0-30)**	**SW846 8270C**
Fluoranthene	**57**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**2.5**	**(0-30)**	**SW846 8270C**
Phenol	**51**	**(10 - 144)**			**SW846 8270C**
	51	**(10 - 144)**	**0.99**	**(0-30)**	**SW846 8270C**
Fluorene	**52**	**(10 - 187)**			**SW846 8270C**
	50	**(10 - 187)**	**4.4**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**56**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**0.88**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**53**	**(32 - 110)**			**SW846 8270C**
	52	**(32 - 110)**	**1.4**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	63	(10 - 130)			SW846 8270C
	46	(10 - 130)	27	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**53**	**(32 - 117)**			**SW846 8270C**
	51	**(32 - 117)**	**3.6**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**78**	**(10 - 200)**			**SW846 8270C**
	51 p	**(10 - 200)**	**36**	**(0-30)**	**SW846 8270C**
Naphthalene	**58**	**(10 - 200)**			**SW846 8270C**
	43	**(10 - 200)**	**25**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**36**	**(10 - 125)**			**SW846 8270C**
	28	**(10 - 125)**	**24**	**(0-30)**	**SW846 8270C**
Phenanthrene	**56**	**(10 - 200)**			**SW846 8270C**
	48	**(10 - 200)**	**14**	**(0-30)**	**SW846 8270C**
Pyrene	**53**	**(10 - 200)**			**SW846 8270C**
	53	**(10 - 200)**	**0.97**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**49**	**(36 - 110)**			**SW846 8270C**
	50	**(36 - 110)**	**0.79**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**62**	**(32 - 118)**			**SW846 8270C**
	66	**(32 - 118)**	**5.2**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**50**	**(25 - 124)**			**SW846 8270C**
	51	**(25 - 124)**	**1.9**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**57**	**(10 - 200)**			**SW846 8270C**
	58	**(10 - 200)**	**2.2**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**54**	**(44 - 120)**			**SW846 8270C**
	53	**(44 - 120)**	**2.4**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**60**	**(43 - 138)**			**SW846 8270C**
	60	**(43 - 138)**	**0.94**	**(0-30)**	**SW846 8270C**
Carbazole	**48**	**(10 - 162)**			**SW846 8270C**
	50	**(10 - 162)**	**2.7**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	18	(11 - 110)			SW846 8270C
	20	(11 - 110)	9.9	(0-30)	SW846 8270C
2-Chloronaphthalene	**51**	**(40 - 110)**			**SW846 8270C**
	48	**(40 - 110)**	**5.4**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**26 a**	**(47 - 116)**			**SW846 8270C**
	25 a	**(47 - 116)**	**4.8**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**54**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**9.1**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**55**	**(31 - 145)**			**SW846 8270C**
	55	**(31 - 145)**	**0.27**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**48**	**(29 - 110)**			**SW846 8270C**
	50	**(29 - 110)**	**2.6**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**47**	**(29 - 110)**			**SW846 8270C**
	48	**(29 - 110)**	**0.91**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	5.1 a	(10 - 110)			SW846 8270C
	5.5 a	(10 - 110)	8.0	(0-30)	SW846 8270C
2,4-Dichlorophenol	**49**	**(33 - 110)**			**SW846 8270C**
	47	**(33 - 110)**	**5.8**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**56**	**(48 - 118)**			**SW846 8270C**
	55	**(48 - 118)**	**3.6**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**52**	**(19 - 114)**			**SW846 8270C**
	50	**(19 - 114)**	**4.0**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**55**	**(47 - 116)**			**SW846 8270C**
	52	**(47 - 116)**	**5.0**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	34	(10 - 110)			SW846 8270C
	32	(10 - 110)	7.3	(0-30)	SW846 8270C
2,4-Dinitrophenol	28	(10 - 110)			SW846 8270C
	24	(10 - 110)	16	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**57**	**(28 - 137)**			**SW846 8270C**
	54	**(28 - 137)**	**5.9**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**59**	**(10 - 182)**			**SW846 8270C**
	60	**(10 - 182)**	**0.61**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**50**	**(37 - 122)**			**SW846 8270C**
	51	**(37 - 122)**	**2.3**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**49**	**(30 - 110)**			**SW846 8270C**
	52	**(30 - 110)**	**4.7**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**52**	**(13 - 110)**			**SW846 8270C**
	49	**(13 - 110)**	**7.5**	**(0-30)**	**SW846 8270C**
Isophorone	**48**	**(32 - 129)**			**SW846 8270C**
	49	**(32 - 129)**	**0.71**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**53**	**(19 - 124)**			**SW846 8270C**
	52	**(19 - 124)**	**3.2**	**(0-30)**	**SW846 8270C**
4-Methylphenol	51	(27 - 116)			SW846 8270C
	51	(27 - 116)	1.1	(0-30)	SW846 8270C
2-Nitroaniline	**54**	**(31 - 141)**			**SW846 8270C**
	51	**(31 - 141)**	**5.8**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**29**	**(24 - 110)**			**SW846 8270C**
	29	**(24 - 110)**	**3.1**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**32**	**(23 - 124)**			**SW846 8270C**
	28	**(23 - 124)**	**15**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**48**	**(33 - 111)**			**SW846 8270C**
	50	**(33 - 111)**	**3.3**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**46**	**(17 - 110)**			**SW846 8270C**
	52	**(17 - 110)**	**11**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**52**	**(10 - 169)**			**SW846 8270C**
	51	**(10 - 169)**	**1.9**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**51**	**(32 - 112)**			**SW846 8270C**
	40	**(32 - 112)**	**26**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**41**	**(22 - 110)**			**SW846 8270C**
	30 p	**(22 - 110)**	**32**	**(0-30)**	**SW846 8270C**
Benzoic acid	32	(10 - 200)			SW846 8270C
	21 p	(10 - 200)	43	(0-30)	SW846 8270C
1,4-Dioxane	24	(10 - 110)			SW846 8270C
	24	(10 - 110)	1.3	(0-30)	SW846 8270C
Pyridine	26	(10 - 110)			SW846 8270C
	29	(10 - 110)	11	(0-30)	SW846 8270C
Atrazine	74	(50 - 130)			SW846 8270C
	77	(50 - 130)	2.9	(0-30)	SW846 8270C
Acetophenone	58	(50 - 130)			SW846 8270C
	56	(50 - 130)	4.5	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AR-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	57	(50 - 130)			SW846 8270C
	52	(50 - 130)	8.6	(0-30)	SW846 8270C
Caprolactam	45 a	(50 - 130)			SW846 8270C
	37 a	(50 - 130)	21	(0-30)	SW846 8270C
Aniline	15	(10 - 130)			SW846 8270C
	15	(10 - 130)	0.30	(0-30)	SW846 8270C
Benzyl alcohol	46	(10 - 130)			SW846 8270C
	45	(10 - 130)	2.0	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**45**	**(10 - 130)**			**SW846 8270C**
	47	**(10 - 130)**	**4.6**	**(0-30)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	41	(10 - 130)			SW846 8270C
	25 p	(10 - 130)	48	(0-30)	SW846 8270C
Benzaldehyde	62	(10 - 130)			SW846 8270C
	64	(10 - 130)	2.7	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	52	(24 - 112)
	50	(24 - 112)
2-Fluorobiphenyl	54	(34 - 110)
	52	(34 - 110)
Terphenyl-d14	62	(41 - 119)
	63	(41 - 119)
Phenol-d5	55	(28 - 110)
	55	(28 - 110)
2-Fluorophenol	60	(26 - 110)
	58	(26 - 110)
2,4,6-Tribromophenol	43	(10 - 118)
	33	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1105332
Dilution Factor: 4

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**138 DIL**	**(10 - 200)**			**SW846 8270C**
	462	**(10 - 200)**	**102**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
1,2,4-Trichloro- benzene	**53 DIL**	**(33 - 110)**			**SW846 8270C**
	53 DIL	**(33 - 110)**	**0.78**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**56 DIL**	**(10 - 200)**			**SW846 8270C**
	61 DIL	**(10 - 200)**	**9.5**	**(0-30)**	**SW846 8270C**
Anthracene	**248 DIL,a**	**(10 - 200)**			**SW846 8270C**
	907	**(10 - 200)**	**107**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Benzo(a)anthracene	**519 DIL,a**	**(10 - 200)**			**SW846 8270C**
	1710	**(10 - 200)**	**97**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
2,4-Dinitrotoluene	**58 DIL**	**(42 - 118)**			**SW846 8270C**
	66 DIL	**(42 - 118)**	**14**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**435 DIL,a**	**(10 - 200)**			**SW846 8270C**
	1540	**(10 - 200)**	**101**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Benzo(b)fluoranthene	**470 DIL,a**	**(10 - 200)**			**SW846 8270C**
	1190	**(10 - 200)**	**74**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Benzo(ghi)perylene	**290 DIL,a**	**(10 - 200)**			**SW846 8270C**
	812	**(10 - 200)**	**84**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
N-Nitrosodi-n-propyl- amine	**55 DIL**	**(30 - 121)**			**SW846 8270C**
	54 DIL	**(30 - 121)**	**1.8**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**311 DIL,a**	**(10 - 200)**			**SW846 8270C**
	880	**(10 - 200)**	**85**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
1,4-Dichlorobenzene	**48 DIL**	**(26 - 110)**			**SW846 8270C**
	46 DIL	**(26 - 110)**	**3.7**	**(0-30)**	**SW846 8270C**
Chrysene	**505 DIL,a**	**(10 - 200)**			**SW846 8270C**
	1630	**(10 - 200)**	**94**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Dibenz(a,h)anthracene	**146 DIL**	**(10 - 200)**			**SW846 8270C**
	316	**(10 - 200)**	**74**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Pentachlorophenol	**48 DIL**	**(10 - 182)**			**SW846 8270C**
	57 DIL	**(10 - 182)**	**17**	**(0-30)**	**SW846 8270C**
Fluoranthene	**1230**	**(10 - 200)**			**SW846 8270C**
	Qualifiers: DIL,a				
	2200	**(10 - 200)**	**48**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Phenol	**57 DIL**	**(10 - 144)**			**SW846 8270C**
	57 DIL	**(10 - 144)**	**0.97**	**(0-30)**	**SW846 8270C**
Fluorene	**136 DIL**	**(10 - 187)**			**SW846 8270C**
	455	**(10 - 187)**	**102**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Indeno(1,2,3-cd)pyrene	**283 DIL,a**	**(10 - 200)**			**SW846 8270C**
	847	**(10 - 200)**	**90**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
2-Chlorophenol	**57 DIL**	**(32 - 110)**			**SW846 8270C**
	55 DIL	**(32 - 110)**	**3.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	76 DIL	(10 - 130)			SW846 8270C
	118 DIL,p	(10 - 130)	44	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**53 DIL**	**(32 - 117)**			**SW846 8270C**
	61 DIL	**(32 - 117)**	**15**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**85 DIL**	**(10 - 200)**			**SW846 8270C**
	161 DIL,p	**(10 - 200)**	**59**	**(0-30)**	**SW846 8270C**
Naphthalene	**77 DIL**	**(10 - 200)**			**SW846 8270C**
	165 DIL,p	**(10 - 200)**	**70**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**69 DIL**	**(10 - 125)**			**SW846 8270C**
	75 DIL	**(10 - 125)**	**8.3**	**(0-30)**	**SW846 8270C**
Phenanthrene	**1040**	**(10 - 200)**			**SW846 8270C**
	Qualifiers: DIL,a				
	1840	**(10 - 200)**	**49**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Pyrene	**983 DIL,a**	**(10 - 200)**			**SW846 8270C**
	1680	**(10 - 200)**	**45**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
bis(2-Chloroethoxy) methane	**53 DIL**	**(36 - 110)**			**SW846 8270C**
	54 DIL	**(36 - 110)**	**2.1**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**63 DIL**	**(32 - 118)**			**SW846 8270C**
	52 DIL	**(32 - 118)**	**19**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
bis(2-Chloroisopropyl) ether	**52 DIL**	**(25 - 124)**			**SW846 8270C**
	51 DIL	**(25 - 124)**	**0.57**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**61 DIL**	**(10 - 200)**			**SW846 8270C**
	62 DIL	**(10 - 200)**	**1.1**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**58 DIL**	**(44 - 120)**			**SW846 8270C**
	57 DIL	**(44 - 120)**	**1.4**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**46 DIL**	**(43 - 138)**			**SW846 8270C**
	46 DIL	**(43 - 138)**	**0.51**	**(0-30)**	**SW846 8270C**
Carbazole	**210 DIL,a**	**(10 - 162)**			**SW846 8270C**
	648	**(10 - 162)**	**95**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
4-Chloroaniline	34 DIL	(11 - 110)			SW846 8270C
	36 DIL	(11 - 110)	6.5	(0-30)	SW846 8270C
2-Chloronaphthalene	**54 DIL**	**(40 - 110)**			**SW846 8270C**
	53 DIL	**(40 - 110)**	**2.3**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**28 DIL,a**	**(47 - 116)**			**SW846 8270C**
	28 DIL,a	**(47 - 116)**	**2.0**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**104 DIL**	**(10 - 200)**			**SW846 8270C**
	322	**(10 - 200)**	**97**	**(0-30)**	**SW846 8270C**
	Qualifiers: DIL,a,p				
Di-n-butyl phthalate	**62 DIL**	**(31 - 145)**			**SW846 8270C**
	63 DIL	**(31 - 145)**	**1.7**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**49 DIL**	**(29 - 110)**			**SW846 8270C**
	48 DIL	**(29 - 110)**	**2.8**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**48 DIL**	**(29 - 110)**			**SW846 8270C**
	44 DIL	**(29 - 110)**	**8.3**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	24 DIL	(10 - 110)			SW846 8270C
	18 DIL	(10 - 110)	28	(0-30)	SW846 8270C
2,4-Dichlorophenol	**46 DIL**	**(33 - 110)**			**SW846 8270C**
	59 DIL	**(33 - 110)**	**24**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**58 DIL**	**(48 - 118)**			**SW846 8270C**
	58 DIL	**(48 - 118)**	**0.41**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**53 DIL**	**(19 - 114)**			**SW846 8270C**
	54 DIL	**(19 - 114)**	**3.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Dimethyl phthalate	**58 DIL**	**(47 - 116)**			**SW846 8270C**
	57 DIL	**(47 - 116)**	**1.5**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	45 DIL	(10 - 110)			SW846 8270C
	43 DIL	(10 - 110)	5.4	(0-30)	SW846 8270C
2,4-Dinitrophenol	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**61 DIL**	**(28 - 137)**			**SW846 8270C**
	61 DIL	**(28 - 137)**	**0.13**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**56 DIL**	**(10 - 182)**			**SW846 8270C**
	58 DIL	**(10 - 182)**	**3.2**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**57 DIL**	**(37 - 122)**			**SW846 8270C**
	57 DIL	**(37 - 122)**	**1.4**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**50 DIL**	**(30 - 110)**			**SW846 8270C**
	52 DIL	**(30 - 110)**	**3.0**	**(0-30)**	**SW846 8270C**
Hexachlorocyclopenta-diene	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**46 DIL**	**(13 - 110)**			**SW846 8270C**
	41 DIL	**(13 - 110)**	**11**	**(0-30)**	**SW846 8270C**
Isophorone	**49 DIL**	**(32 - 129)**			**SW846 8270C**
	51 DIL	**(32 - 129)**	**4.3**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**62 DIL**	**(19 - 124)**			**SW846 8270C**
	59 DIL	**(19 - 124)**	**4.7**	**(0-30)**	**SW846 8270C**
4-Methylphenol	56 DIL	(27 - 116)			SW846 8270C
	59 DIL	(27 - 116)	5.3	(0-30)	SW846 8270C
2-Nitroaniline	**57 DIL**	**(31 - 141)**			**SW846 8270C**
	58 DIL	**(31 - 141)**	**1.9**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**50 DIL**	**(24 - 110)**			**SW846 8270C**
	51 DIL	**(24 - 110)**	**1.3**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**53 DIL**	**(23 - 124)**			**SW846 8270C**
	68 DIL	**(23 - 124)**	**26**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**49 DIL**	**(33 - 111)**			**SW846 8270C**
	48 DIL	**(33 - 111)**	**0.73**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**51 DIL**	**(17 - 110)**			**SW846 8270C**
	53 DIL	**(17 - 110)**	**4.0**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**62 DIL**	**(10 - 169)**			**SW846 8270C**
	64 DIL	**(10 - 169)**	**2.6**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4,5-Trichloro-phenol	**49 DIL**	**(32 - 112)**			**SW846 8270C**
	54 DIL	**(32 - 112)**	**10**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**59 DIL**	**(22 - 110)**			**SW846 8270C**
	60 DIL	**(22 - 110)**	**2.1**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 DIL,a	(10 - 200)			SW846 8270C
	98 DIL,p	(10 - 200)	200	(0-30)	SW846 8270C
1,4-Dioxane	27 DIL	(10 - 110)			SW846 8270C
	23 DIL	(10 - 110)	16	(0-30)	SW846 8270C
Pyridine	29 DIL	(10 - 110)			SW846 8270C
	29 DIL	(10 - 110)	1.0	(0-30)	SW846 8270C
Atrazine	87 DIL	(50 - 130)			SW846 8270C
	88 DIL	(50 - 130)	1.9	(0-30)	SW846 8270C
Acetophenone	59 DIL	(50 - 130)			SW846 8270C
	59 DIL	(50 - 130)	1.3	(0-30)	SW846 8270C
1,1'-Biphenyl	66 DIL	(50 - 130)			SW846 8270C
	81 DIL	(50 - 130)	21	(0-30)	SW846 8270C
Caprolactam	61 DIL	(50 - 130)			SW846 8270C
	77 DIL	(50 - 130)	24	(0-30)	SW846 8270C
Aniline	24 DIL	(10 - 130)			SW846 8270C
	27 DIL	(10 - 130)	12	(0-30)	SW846 8270C
Benzyl alcohol	48 DIL	(10 - 130)			SW846 8270C
	52 DIL	(10 - 130)	8.1	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**46 DIL**	**(10 - 130)**			**SW846 8270C**
	39 DIL	**(10 - 130)**	**15**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	118 DIL	(10 - 130)			SW846 8270C
	340	(10 - 130)	97	(0-30)	SW846 8270C
	Qualifiers: DIL,a,p				
2,3,5,6-Tetrachlorophenol	30 DIL	(10 - 130)			SW846 8270C
	35 DIL	(10 - 130)	16	(0-30)	SW846 8270C
Benzaldehyde	64 DIL	(10 - 130)			SW846 8270C
	63 DIL	(10 - 130)	2.0	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	53 DIL	(24 - 112)
	51 DIL	(24 - 112)
2-Fluorobiphenyl	55 DIL	(34 - 110)
	56 DIL	(34 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AP-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AQ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Terphenyl-d14	68 DIL	(41 - 119)
	68 DIL	(41 - 119)
Phenol-d5	62 DIL	(28 - 110)
	61 DIL	(28 - 110)
2-Fluorophenol	63 DIL	(26 - 110)
	58 DIL	(26 - 110)
2,4,6-Tribromophenol	50 DIL	(10 - 118)
	53 DIL	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD
Date Sampled...: 04/11/11 15:20 **Date Received..:** 04/12/11
Prep Date.....: 04/16/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1105334
Dilution Factor: 1 **% Moisture.....:** 29

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**48**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**5.8**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**50**	**(33 - 110)**			**SW846 8270C**
	44	**(33 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**49**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**3.0**	**(0-30)**	**SW846 8270C**
Anthracene	**53**	**(10 - 200)**			**SW846 8270C**
	52	**(10 - 200)**	**0.11**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**51**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**0.50**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**53**	**(42 - 118)**			**SW846 8270C**
	54	**(42 - 118)**	**2.1**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**45**	**(10 - 200)**			**SW846 8270C**
	47	**(10 - 200)**	**4.2**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**55**	**(10 - 200)**			**SW846 8270C**
	47	**(10 - 200)**	**16**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**50**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**2.5**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**49**	**(30 - 121)**			**SW846 8270C**
	43	**(30 - 121)**	**13**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**47**	**(10 - 200)**			**SW846 8270C**
	63	**(10 - 200)**	**29**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**48**	**(26 - 110)**			**SW846 8270C**
	47	**(26 - 110)**	**2.4**	**(0-30)**	**SW846 8270C**
Chrysene	**51**	**(10 - 200)**			**SW846 8270C**
	56	**(10 - 200)**	**9.1**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**50**	**(10 - 200)**			**SW846 8270C**
	52	**(10 - 200)**	**2.9**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**45**	**(10 - 182)**			**SW846 8270C**
	40	**(10 - 182)**	**12**	**(0-30)**	**SW846 8270C**
Fluoranthene	**52**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**1.7**	**(0-30)**	**SW846 8270C**
Phenol	**50**	**(10 - 144)**			**SW846 8270C**
	51	**(10 - 144)**	**1.6**	**(0-30)**	**SW846 8270C**
Fluorene	**50**	**(10 - 187)**			**SW846 8270C**
	52	**(10 - 187)**	**3.7**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**50**	**(10 - 200)**			**SW846 8270C**
	51	**(10 - 200)**	**1.3**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**50**	**(32 - 110)**			**SW846 8270C**
	54	**(32 - 110)**	**7.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	47	(10 - 130)			SW846 8270C
	49	(10 - 130)	5.2	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**55**	**(32 - 117)**			**SW846 8270C**
	55	**(32 - 117)**	**0.48**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**54**	**(10 - 200)**			**SW846 8270C**
	58	**(10 - 200)**	**7.7**	**(0-30)**	**SW846 8270C**
Naphthalene	**47**	**(10 - 200)**			**SW846 8270C**
	45	**(10 - 200)**	**3.2**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**51**	**(10 - 125)**			**SW846 8270C**
	59	**(10 - 125)**	**13**	**(0-30)**	**SW846 8270C**
Phenanthrene	**50**	**(10 - 200)**			**SW846 8270C**
	53	**(10 - 200)**	**6.7**	**(0-30)**	**SW846 8270C**
Pyrene	**50**	**(10 - 200)**			**SW846 8270C**
	57	**(10 - 200)**	**13**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**49**	**(36 - 110)**			**SW846 8270C**
	44	**(36 - 110)**	**8.9**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**51**	**(32 - 118)**			**SW846 8270C**
	56	**(32 - 118)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**50**	**(25 - 124)**			**SW846 8270C**
	55	**(25 - 124)**	**11**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**53**	**(10 - 200)**			**SW846 8270C**
	63	**(10 - 200)**	**17**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**52**	**(44 - 120)**			**SW846 8270C**
	51	**(44 - 120)**	**1.1**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**49**	**(43 - 138)**			**SW846 8270C**
	57	**(43 - 138)**	**14**	**(0-30)**	**SW846 8270C**
Carbazole	**50**	**(10 - 162)**			**SW846 8270C**
	52	**(10 - 162)**	**3.4**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	0.0 a	(11 - 110)			SW846 8270C
	10 a,p	(11 - 110)	200	(0-30)	SW846 8270C
2-Chloronaphthalene	**47**	**(40 - 110)**			**SW846 8270C**
	49	**(40 - 110)**	**3.9**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**26 a**	**(47 - 116)**			**SW846 8270C**
	52 p	**(47 - 116)**	**67**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**48**	**(10 - 200)**			**SW846 8270C**
	50	**(10 - 200)**	**4.2**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**54**	**(31 - 145)**			**SW846 8270C**
	56	**(31 - 145)**	**5.2**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**50**	**(29 - 110)**			**SW846 8270C**
	48	**(29 - 110)**	**4.5**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**49**	**(29 - 110)**			**SW846 8270C**
	43	**(29 - 110)**	**12**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	4.1 a	(10 - 110)			SW846 8270C
	3.1 a	(10 - 110)	28	(0-30)	SW846 8270C
2,4-Dichlorophenol	**51**	**(33 - 110)**			**SW846 8270C**
	55	**(33 - 110)**	**7.8**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**53**	**(48 - 118)**			**SW846 8270C**
	55	**(48 - 118)**	**4.6**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**47**	**(19 - 114)**			**SW846 8270C**
	50	**(19 - 114)**	**6.7**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**53**	**(47 - 116)**			**SW846 8270C**
	53	**(47 - 116)**	**0.02**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	44	(10 - 110)			SW846 8270C
	38	(10 - 110)	15	(0-30)	SW846 8270C
2,4-Dinitrophenol	31	(10 - 110)			SW846 8270C
	24	(10 - 110)	26	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**54**	**(28 - 137)**			**SW846 8270C**
	54	**(28 - 137)**	**0.38**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**53**	**(10 - 182)**			**SW846 8270C**
	64	**(10 - 182)**	**19**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**51**	**(37 - 122)**			**SW846 8270C**
	49	**(37 - 122)**	**3.8**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**49**	**(30 - 110)**			**SW846 8270C**
	45	**(30 - 110)**	**7.6**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**49**	**(13 - 110)**			**SW846 8270C**
	43	**(13 - 110)**	**12**	**(0-30)**	**SW846 8270C**
Isophorone	**47**	**(32 - 129)**			**SW846 8270C**
	43	**(32 - 129)**	**8.7**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**51**	**(19 - 124)**			**SW846 8270C**
	53	**(19 - 124)**	**5.2**	**(0-30)**	**SW846 8270C**
4-Methylphenol	50	(27 - 116)			SW846 8270C
	56	(27 - 116)	11	(0-30)	SW846 8270C
2-Nitroaniline	**50**	**(31 - 141)**			**SW846 8270C**
	45	**(31 - 141)**	**11**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**17 a**	**(24 - 110)**			**SW846 8270C**
	17 a	**(24 - 110)**	**1.6**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**26**	**(23 - 124)**			**SW846 8270C**
	29	**(23 - 124)**	**10**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**47**	**(33 - 111)**			**SW846 8270C**
	43	**(33 - 111)**	**7.5**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**48**	**(17 - 110)**			**SW846 8270C**
	49	**(17 - 110)**	**2.7**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**51**	**(10 - 169)**			**SW846 8270C**
	49	**(10 - 169)**	**4.1**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**57**	**(32 - 112)**			**SW846 8270C**
	54	**(32 - 112)**	**6.6**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**47**	**(22 - 110)**			**SW846 8270C**
	50	**(22 - 110)**	**5.8**	**(0-30)**	**SW846 8270C**
Benzoic acid	48	(10 - 200)			SW846 8270C
	51	(10 - 200)	6.7	(0-30)	SW846 8270C
1,4-Dioxane	31	(10 - 110)			SW846 8270C
	15 p	(10 - 110)	68	(0-30)	SW846 8270C
Pyridine	25	(10 - 110)			SW846 8270C
	21	(10 - 110)	15	(0-30)	SW846 8270C
Atrazine	75	(50 - 130)			SW846 8270C
	59	(50 - 130)	24	(0-30)	SW846 8270C
Acetophenone	53	(50 - 130)			SW846 8270C
	54	(50 - 130)	1.7	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MGWX81CA-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D120528-001 MGWX81CC-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	51	(50 - 130)			SW846 8270C
	54	(50 - 130)	5.5	(0-30)	SW846 8270C
Caprolactam	43 a	(50 - 130)			SW846 8270C
	58	(50 - 130)	29	(0-30)	SW846 8270C
Aniline	0.0 a	(10 - 130)			SW846 8270C
	0.0 a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzyl alcohol	43	(10 - 130)			SW846 8270C
	53	(10 - 130)	23	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**50**	**(10 - 130)**			**SW846 8270C**
	31 p	**(10 - 130)**	**48**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	49	(10 - 130)			SW846 8270C
	53	(10 - 130)	7.2	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	45	(10 - 130)			SW846 8270C
	43	(10 - 130)	5.2	(0-30)	SW846 8270C
Benzaldehyde	67	(10 - 130)			SW846 8270C
	76	(10 - 130)	13	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	51	(24 - 112)
	42	(24 - 112)
2-Fluorobiphenyl	49	(34 - 110)
	53	(34 - 110)
Terphenyl-d14	62	(41 - 119)
	68	(41 - 119)
Phenol-d5	56	(28 - 110)
	56	(28 - 110)
2-Fluorophenol	60	(26 - 110)
	55	(26 - 110)
2,4,6-Tribromophenol	53	(10 - 118)
	46	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/22/11
Prep Batch #...: 1108058
Dilution Factor: 50 **% Moisture.....:** 30

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**156 DIL**	**(10 - 200)**			**SW846 8270C**
	149 DIL	**(10 - 200)**	**4.6**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**0.0 DIL,a**	**(33 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**287 DIL,a**	**(10 - 200)**			**SW846 8270C**
	115 DIL	**(10 - 200)**	**15**	**(0-30)**	**SW846 8270C**
Anthracene	**137 DIL**	**(10 - 200)**			**SW846 8270C**
	36 DIL	**(10 - 200)**	**22**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**50 DIL**	**(10 - 200)**			**SW846 8270C**
	52 DIL	**(10 - 200)**	**0.52**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**0.0 DIL,a**	**(42 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(42 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**78 DIL**	**(10 - 200)**			**SW846 8270C**
	53 DIL	**(10 - 200)**	**5.4**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**67 DIL**	**(10 - 200)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 200)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**175 DIL**	**(10 - 200)**			**SW846 8270C**
	65 DIL	**(10 - 200)**	**18**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**0.0 DIL,a**	**(30 - 121)**			**SW846 8270C**
	0.0 DIL,a	**(30 - 121)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**65 DIL**	**(10 - 200)**			**SW846 8270C**
	126 DIL	**(10 - 200)**	**16**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**0.0 DIL,a**	**(26 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(26 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Chrysene	**47 DIL**	**(10 - 200)**			**SW846 8270C**
	13 DIL	**(10 - 200)**	**5.8**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**62 DIL**	**(10 - 200)**			**SW846 8270C**
	37 DIL	**(10 - 200)**	**17**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**0.0 DIL,a**	**(10 - 182)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 182)**	**0.0**	**(0-30)**	**SW846 8270C**
Fluoranthene	**43 DIL**	**(10 - 200)**			**SW846 8270C**
	57 DIL	**(10 - 200)**	**1.4**	**(0-30)**	**SW846 8270C**
Phenol	**66 DIL**	**(10 - 144)**			**SW846 8270C**
	46 DIL	**(10 - 144)**	**6.4**	**(0-30)**	**SW846 8270C**
Fluorene	**72 DIL**	**(10 - 187)**			**SW846 8270C**
	85 DIL	**(10 - 187)**	**3.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**132 DIL**	**(10 - 200)**			**SW846 8270C**
	76 DIL	**(10 - 200)**	**12**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**0.0 DIL,a**	**(32 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	60 DIL	(10 - 130)			SW846 8270C
	63 DIL	(10 - 130)	0.57	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**0.0 DIL,a**	**(32 - 117)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 117)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**68 DIL**	**(10 - 200)**			**SW846 8270C**
	4.4 DIL,a	**(10 - 200)**	**4.4**	**(0-30)**	**SW846 8270C**
Naphthalene	**120 DIL**	**(10 - 200)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 200)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**0.0 DIL,a**	**(10 - 125)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 125)**	**0.0**	**(0-30)**	**SW846 8270C**
Phenanthrene	**82 DIL**	**(10 - 200)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 200)**	**0.0**	**(0-30)**	**SW846 8270C**
Pyrene	**7.5 DIL,a**	**(10 - 200)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 200)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**0.0 DIL,a**	**(36 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(36 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**0.0 DIL,a**	**(32 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**0.0 DIL,a**	**(25 - 124)**			**SW846 8270C**
	0.0 DIL,a	**(25 - 124)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**0.0 DIL,a**	**(10 - 200)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 200)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**0.0 DIL,a**	**(44 - 120)**			**SW846 8270C**
	0.0 DIL,a	**(44 - 120)**	**0.0**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**0.0 DIL,a**	**(43 - 138)**			**SW846 8270C**
	101 DIL,p	**(43 - 138)**	**200**	**(0-30)**	**SW846 8270C**
Carbazole	**86 DIL**	**(10 - 162)**			**SW846 8270C**
	62 DIL	**(10 - 162)**	**6.7**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	0.0 DIL,a	(11 - 110)			SW846 8270C
	0.0 DIL,a	(11 - 110)	0.0	(0-30)	SW846 8270C
2-Chloronaphthalene	**0.0 DIL,a**	**(40 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(40 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	**0.0 DIL,a**	**(47 - 116)**			**SW846 8270C**
	0.0 DIL,a	**(47 - 116)**	**0.0**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**93 DIL**	**(10 - 200)**			**SW846 8270C**
	47 DIL	**(10 - 200)**	**3.8**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**0.0 DIL,a**	**(31 - 145)**			**SW846 8270C**
	0.0 DIL,a	**(31 - 145)**	**0.0**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**0.0 DIL,a**	**(29 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(29 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**0.0 DIL,a**	**(29 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(29 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dichlorophenol	**0.0 DIL,a**	**(33 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**0.0 DIL,a**	**(48 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(48 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**0.0 DIL,a**	**(19 - 114)**			**SW846 8270C**
	103 DIL,p	**(19 - 114)**	**200**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**0.0 DIL,a**	**(47 - 116)**			**SW846 8270C**
	0.0 DIL,a	**(47 - 116)**	**0.0**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dinitrophenol	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**0.0 DIL,a**	**(28 - 137)**			**SW846 8270C**
	0.0 DIL,a	**(28 - 137)**	**0.0**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**0.0 DIL,a**	**(10 - 182)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 182)**	**0.0**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**0.0 DIL,a**	**(37 - 122)**			**SW846 8270C**
	0.0 DIL,a	**(37 - 122)**	**0.0**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**0.0 DIL,a**	**(30 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(30 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**0.0 DIL,a**	**(13 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(13 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Isophorone	**0.0 DIL,a**	**(32 - 129)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 129)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**101 DIL**	**(19 - 124)**			**SW846 8270C**
	106 DIL	**(19 - 124)**	**5.3**	**(0-30)**	**SW846 8270C**
4-Methylphenol	62 DIL	(27 - 116)			SW846 8270C
	65 DIL	(27 - 116)	2.3	(0-30)	SW846 8270C
2-Nitroaniline	**0.0 DIL,a**	**(31 - 141)**			**SW846 8270C**
	0.0 DIL,a	**(31 - 141)**	**0.0**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**0.0 DIL,a**	**(24 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(24 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**0.0 DIL,a**	**(23 - 124)**			**SW846 8270C**
	0.0 DIL,a	**(23 - 124)**	**0.0**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**0.0 DIL,a**	**(33 - 111)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 111)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**0.0 DIL,a**	**(17 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(17 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**0.0 DIL,a**	**(10 - 169)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 169)**	**0.0**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**0.0 DIL,a**	**(32 - 112)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 112)**	**0.0**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**0.0 DIL,a**	**(22 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(22 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 DIL,a	(10 - 200)			SW846 8270C
	0.0 DIL,a	(10 - 200)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Pyridine	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Atrazine	0.0 DIL,a	(50 - 130)			SW846 8270C
	0.0 DIL,a	(50 - 130)	0.0	(0-30)	SW846 8270C
Acetophenone	167 DIL,a	(50 - 130)			SW846 8270C
	160 DIL,a	(50 - 130)	3.8	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	72 DIL	(50 - 130)			SW846 8270C
	25 DIL,a	(50 - 130)	7.7	(0-30)	SW846 8270C
Caprolactam	0.0 DIL,a	(50 - 130)			SW846 8270C
	0.0 DIL,a	(50 - 130)	0.0	(0-30)	SW846 8270C
Aniline	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzyl alcohol	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**0.0 DIL,a**	**(10 - 130)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 130)**	**0.0**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzaldehyde	323 DIL,a	(10 - 130)			SW846 8270C
	326 DIL,a	(10 - 130)	1.1	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	0.0	(24 - 112)
	Qualifiers: DIL,*	
	0.0	(24 - 112)
	Qualifiers: DIL,*	
2-Fluorobiphenyl	0.0	(34 - 110)
	Qualifiers: DIL,*	
	0.0	(34 - 110)
	Qualifiers: DIL,*	
Terphenyl-d14	0.0	(41 - 119)
	Qualifiers: DIL,*	
	0.0	(41 - 119)
	Qualifiers: DIL,*	
Phenol-d5	0.0	(28 - 110)
	Qualifiers: DIL,*	
	0.0	(28 - 110)
	Qualifiers: DIL,*	
2-Fluorophenol	0.0	(26 - 110)
	Qualifiers: DIL,*	
	0.0	(26 - 110)
	Qualifiers: DIL,*	
2,4,6-Tribromophenol	0.0	(10 - 118)
	Qualifiers: DIL,*	
	0.0	(10 - 118)
	Qualifiers: DIL,*	

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG4RF1EP-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D150594-005 MG4RF1EQ-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG0DQ1AQ-MS **Matrix.....:** SOLID
MS Lot-Sample #: A1D130527-007 MG0DQ1AR-MSD
Date Sampled...: 04/12/11 **Date Received..:** 04/13/11
Prep Date.....: 04/25/11 **Analysis Date..:** 04/26/11
Prep Batch #...: 1116105
Dilution Factor: 1 **% Moisture.....:** 12

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**71**	**(10 - 142)**			**SW846 8015A MOD**
	71	**(10 - 142)**	**0.01**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	83	(10 - 150)
	95	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3N11AR-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-014 MG3N11AT-MSD
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119101
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**5.0 a**	**(10 - 142)**			**SW846 8015A MOD**
	65 p	**(10 - 142)**	**158**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	14	(10 - 150)
	88	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3NN1AQ-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-011 MG3NN1AR-MSD
Date Sampled...: 04/13/11 **Date Received..:** 04/15/11
Prep Date.....: 05/02/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1126188
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**88**	**(10 - 142)**			**SW846 8015A MOD**
	74	**(10 - 142)**	**16**	**(0-94)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	99	(10 - 150)
	88	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1D150470 **Work Order #...:** MG5P31AK-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D180437-007 MG5P31AL-MSD
Date Sampled...: 04/14/11 16:55 **Date Received..:** 04/16/11
Prep Date.....: 04/28/11 **Analysis Date..:** 04/28/11
Prep Batch #...: 1119096
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**93**	**(63 - 143)**			**SW846 8015B**
	99	**(63 - 143)**	**5.4**	**(0-20)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	99	(10 - 150)
	104	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AU-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AV-MSD
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/21/11
Prep Batch #...: 1109041
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**110**	**(70 - 130)**			**SW846 8015B**
	126	**(70 - 130)**	**13**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	36	(10 - 110)
	42	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG2CC1AJ-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D140572-003 MG2CC1AK-MSD
Date Sampled...: 04/13/11 15:30 **Date Received..:** 04/14/11
Prep Date.....: 04/18/11 **Analysis Date..:** 04/24/11
Prep Batch #...: 1108043
Dilution Factor: 2

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**78**	**(10 - 166)**			**SW846 8082**
	82	**(10 - 166)**	**5.4**	**(0-30)**	**SW846 8082**
Aroclor 1260	**76**	**(21 - 140)**			**SW846 8082**
	76	**(21 - 140)**	**0.27**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	77	(27 - 130)
	83	(27 - 130)
Decachlorobiphenyl	45	(10 - 127)
	44	(10 - 127)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3ML1AW-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-001 MG3ML1AX-MSD
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 04/23/11
Prep Batch #...: 1109046
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**101**	**(10 - 199)**			**SW846 8082**
	97	**(10 - 199)**	**4.4**	**(0-30)**	**SW846 8082**
Aroclor 1260	**110**	**(10 - 199)**			**SW846 8082**
	98	**(10 - 199)**	**11**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	101	(10 - 196)
	89	(10 - 196)
Decachlorobiphenyl	129	(10 - 199)
	113	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1D150470 **Work Order #...:** MG3P51AR-MS **Matrix.....:** SO
MS Lot-Sample #: A1D150470-025 MG3P51AT-MSD
Date Sampled...: 04/14/11 11:00 **Date Received..:** 04/15/11
Prep Date.....: 04/19/11 **Analysis Date..:** 05/02/11
Prep Batch #...: 1109047
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Aroclor 1016	**79**	**(10 - 199)**			**SW846 8082**
	73	**(10 - 199)**	**8.0**	**(0-30)**	**SW846 8082**
Aroclor 1260	**85**	**(10 - 199)**			**SW846 8082**
	83	**(10 - 199)**	**2.1**	**(0-30)**	**SW846 8082**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Tetrachloro-m-xylene	174	(10 - 196)
	140	(10 - 196)
Decachlorobiphenyl	112	(10 - 199)
	113	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** WATER
Date Sampled...: 04/14/11 15:30 **Date Received..:** 04/15/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D150538-001 **Prep Batch #...:** 1108017							
Arsenic	102	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FA
	102	(75 - 125)	0.18	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FC
		Dilution Factor: 1					
Lead	101	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FE
	102	(75 - 125)	0.50	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FF
		Dilution Factor: 1					
Barium	103	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FL
	102	(75 - 125)	0.11	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FM
		Dilution Factor: 1					
Selenium	103	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FH
	103	(75 - 125)	0.11	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FJ
		Dilution Factor: 1					
Cadmium	101	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FP
	101	(75 - 125)	0.16	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FQ
		Dilution Factor: 1					
Chromium	99	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FT
	99	(75 - 125)	0.16	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FU
		Dilution Factor: 1					
Silver	102	(75 - 125)			SW846 6010B	04/18-04/19/11	MG3341FW
	101	(75 - 125)	0.64	(0-20)	SW846 6010B	04/18-04/19/11	MG3341FX
		Dilution Factor: 1					
Mercury	97	(69 - 134)			SW846 7470A	04/19/11	MG3341E7
	98	(69 - 134)	0.97	(0-20)	SW846 7470A	04/19/11	MG3341E8
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SO
Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D150470-005 **Prep Batch #...:** 1110023							
Arsenic	89	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61AT
	87	(75 - 125)	2.1	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61AU
		Dilution Factor: 1					
Lead	77	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61AV
	78	(75 - 125)	1.2	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61AW
		Dilution Factor: 1					
Barium	82	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61A1
	91	(75 - 125)	7.7	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61A2
		Dilution Factor: 1					
Selenium	88	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61AX
	86	(75 - 125)	1.8	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61A0
		Dilution Factor: 1					
Cadmium	90	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61A3
	88	(75 - 125)	3.0	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61A4
		Dilution Factor: 1					
Chromium	89	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61A5
	100	(75 - 125)	7.8	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61A6
		Dilution Factor: 1					
Silver	89	(75 - 125)			SW846 6010B	04/20-04/22/11	MG3M61A7
	88	(75 - 125)	1.5	(0-20)	SW846 6010B	04/20-04/22/11	MG3M61A8
		Dilution Factor: 1					
Mercury	90	(11 - 192)			SW846 7471A	04/20-04/21/11	MG3M61AQ
	96	(11 - 192)	5.4	(0-20)	SW846 7471A	04/20-04/21/11	MG3M61AR
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1D150470 **Matrix.....:** SOLID
Date Sampled...: 04/07/11 10:30 **Date Received..:** 04/08/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1D190617-001 **Prep Batch #...:** 1111027						**% Moisture.....:** 9.9	
Arsenic	92	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1A2
	91	(75 - 125)	0.34	(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1A3
		Dilution Factor: 1					
Lead	NC,MSB	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1A8
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1A9
		Dilution Factor: 1					
Barium	113	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1CD
	96	(75 - 125)	12	(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1CE
		Dilution Factor: 1					
Selenium	97	(75 - 125)			SW846 6010B	04/21-04/25/11	MG8LG1CA
	95	(75 - 125)	1.8	(0-20)	SW846 6010B	04/21-04/25/11	MG8LG1CC
		Dilution Factor: 1					
Cadmium	96	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1CG
	121	(75 - 125)	12	(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1CH
		Dilution Factor: 1					
Chromium	91	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1CK
	91	(75 - 125)	0.34	(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1CL
		Dilution Factor: 1					
Silver	95	(75 - 125)			SW846 6010B	04/21-04/22/11	MG8LG1CN
	95	(75 - 125)	0.23	(0-20)	SW846 6010B	04/21-04/22/11	MG8LG1CP
		Dilution Factor: 1					
Mercury	105	(11 - 192)			SW846 7471A	04/21-04/26/11	MG8LG1AW
	91	(11 - 192)	11	(0-20)	SW846 7471A	04/21-04/26/11	MG8LG1AX
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD may be outside control limits because the sample amount was greater than 4X the spike amount.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150470 **Work Order #...:** MG3H7-SMP **Matrix.....:** SOLID
MG3H7-DUP
Date Sampled...: 04/14/11 16:25 **Date Received..:** 04/15/11
% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150454-016		
	86.8	85.6	%	1.4	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108147

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150470 **Work Order #...:** MG3ML-SMP **Matrix.....:** SO
MG3ML-DUP
Date Sampled...: 04/13/11 13:25 **Date Received..:** 04/15/11
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150470-001		
	82.6	83.3	%	0.87	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108147

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150470 **Work Order #...:** MG3N1-SMP **Matrix.....:** SO
MG3N1-DUP
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150470-014		
	83.8	83.6	%	0.32	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108157

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150470 **Work Order #...:** MG3PA-SMP MG3PA-DUP **Matrix.....:** SO

Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150470-017		
	84.7	84.5	%	0.27	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108157

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150470 **Work Order #...:** MG4JR-SMP **Matrix.....:** SOLID
MG4JR-DUP
Date Sampled...: 04/14/11 13:40 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150583-001		
	84.4	85.4	%	1.1	(0-20)	MCAWW 160.3 MOD	04/19-04/20/11	1109085

Dilution Factor: 1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact			
Company Name: Tetra Tech	Client Project Manager:	Site Contact: Vicky Farmer	Lab Contact: Denise Pohl
Address: 250 W Court #200W	Telephone:	Telephone: 573 348 2080	Telephone:
City/State/Zip: Cinci OH 45202	Email:	Analysis Turnaround Time (In BUS days)	COC No: 019597
Phone: 573 348 2080		TAT if different from below _____	1 of 4 COCs
Project Name: Mansfield Ph 2	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day	Analyses
Project Number: 103S17104	Shipping/Tracking No:		
PO#			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	TPH DRO/GRO	PAH	Metals	PCB	VOC	Sample Specific Notes / Special Instructions:
SB66-CSA-04-0411	4-13	1325				X							X				X	X	X	X		
SB92-New-2530-0411		1014																			X	
SB67-CSA-04-0411		1340																				
SB69-CSA-02-0411		1331																				
SB68-CSA-04-0411		1336																				
SB93-New-2730-0411		1138																			X	
SB69-CSA-04-0411		1331																				
SB91-New-2527-0411		0908																			X	
SB65-CSA-04-0411		1321																				
SB64-CSA-04-0411		1316																				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	T	4/14 @ 1718			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/15/11 915

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019596
Address:	Telephone:	Telephone:	Telephone:	2 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUSdays)	Analyses	For lab use only: Walk-in client: ☐ Lab sampling: ☐ Job/SDG No:
Phone:		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite (C) / Grab (G)	TPH DRO/GRO	PCB	PAH	METALS	VOC						Sample Specific Notes / Special Instructions:
DUP0413	4-13-11	—				X							X		N	G	X	X	X	X							
SB63-CSA-02-0411		1310																									
SB65-CSA-02-0411		1321																									
SB63-CSA-04-0411		1310																									
SB66-CSA-02-0411		1325																									
SB62-CSA-04-0411		1304																									
SB68-CSA-02-0411		1336																									
SB62-CSA-02-0411		1304																									
Landfill BORING 2		1458																									
GW61-CSA-0411		1250		V						X			X				X	X	X								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT	4/14 1718			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/15/11 915

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019598
Address:	Telephone:	Telephone:	Telephone:	3 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUSdays)		For lab use only:
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab pickup: ☐ Lab shipping: ☐
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite/C Grab/G	Analyses: VOC	PAH	Ethylene Glycol	PCB	Metals	TPH DRO/GRO					Sample Specific Notes / Special Instructions:
SD04-SSA-0411	4-14	1040			X								X		N	G	X	X	X								
SD05-SSA-0411		1428			X								X				X	X	X								
SD06-LAN-0411		1230			X								X				X	X	X								
SD07-LAN-0911		1210			X								X				X	X		X	X						
SD08-LAN-0411		1100			X								X				X	X		X	X						
SD11-LAN-0911		1150			X								X				X	X	X		X						
SD13-CSA-0411		1535			X								X					X		X	X	X					
SD12-LAN-0911		1145			X								X				X	X	X		X						
SW01-Lan-0411		1135		X						X			V				V	V	X		V						
BSWDUP0414		—		X						X			X				X	X	X		V						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time: 4/14 1718	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 4/15/11 905

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019480
Address:	Telephone:	Telephone:	Telephone:	4 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab sampling ☐ Job/SDG No.
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
P O #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	VOC	Ethylene Gly	pH	Metals	Sample Specific Notes / Special Instructions:
SWC2-lan-0411	4-14	1400		X						X			X			G	X	X	X	X	
Trip Blank	✓	1716		X						X							X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time: 4/14 1718	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: JAR	Date/Time: 4/15/11 915

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TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 410150470
North Canton Facility

Client Tetra Tech Project Mansfield By: (Signature)
Cooler Received on 4-15-11 Opened on 4-15-11
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other
1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
If YES, Quantity Quantity Unsalvageable
Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
Were custody seals on the bottle(s)? Yes ☐ No ☒
If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt °C See back of form for multiple coolers/temps ☒
METHOD: IR ☒ Other ☐ BACK
COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐
Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials
SW01-LAN	<2	4/15/11	CSL
DUP	<2	"	"
SW02	<2	"	"

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A489	2.7	IR	Ice
A197	2.3	"	"
A639	2.9	"	"
A844	2.5	"	"
A76	1.9	"	"

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 103S17104

MANSFIELD PH 2

Lot #: A1D150489

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.

Approved for release.
Kris Brooks
Project Manager
4/30/2011 1:31 PM

Designee for

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

April 30, 2011

CASE NARRATIVE

A1D150489

The following report contains the analytical results for five solid samples submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD PH 2 Site, project number 103S17104. The samples were received April 15, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

The 8015 Ethylene Glycol analysis was performed at the TestAmerica Dayton Laboratory. A copy of their report has been included.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort, Martin Smith, and Vicky Farmer on April 20, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The coolers were received at temperatures ranging from 1.9 to 2.9° C.

GENERAL CHEMISTRY

The sample duplicate data for batch(es) 110087 and 1110088 is not included in this report for Total Solids. The batch QC samples, which document the effect of a specific sample matrix on method performance, were not associated with a sample reported in this lot. The data, therefore, has no bearing on the samples reported herein. In order to document compliance with the QC requirement for a sample duplicate per 10 environmental samples, a summary of the sample/QC associations has been provided following this case narrative

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

TESTAMERICA LABORATORIES, INC.

MS RUN NUMBER REVIEW

Lot ID	Smp#	Work Order	Batch	MS Run#	SDG	Prep Date	Method
A1D150470	005	MG3M61AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	006	MG3NA1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	007	MG3ND1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	008	MG3NF1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	009	MG3NK1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	010	MG3NL1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	011	MG3NN1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	012	MG3NT1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	013	MG3N01AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	014	MG3N11AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	014	MG3N11AQ X	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	015	MG3N61AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	016	MG3N71AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	017	MG3PA1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	017	MG3PA1AQ X	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	018	MG3PC1AD	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	019	MG3PE1AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	021	MG3PQ1AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	022	MG3PT1AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	023	MG3PV1AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	024	MG3P01AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150470	025	MG3P51AA	1108157	1108091		04/18/11	MCAWW 160.3 MOD
A1D150489	001	MG3RN1AC	1110087	1108091		04/18/11	MCAWW 160.3 MOD
A1D150489	002	MG3RQ1AC	1110087	1108091		04/18/11	MCAWW 160.3 MOD
A1D150489	003	MG3RT1AC	1110087	1108091		04/18/11	MCAWW 160.3 MOD

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MS RUN NUMBER REVIEW

Lot ID	Smp#	Work Order	Batch	MS Run#	SDG	Prep Date	Method
A1D150470	026	MG3P61AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150470	027	MG3P81AD	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150470	028	MG3QA1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	001	MG4JR1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	001	MG4JR1AE X	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	002	MG4JW1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	003	MG4JX1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	004	MG4J01AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	004	MG4J01AE X	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	005	MG4J11AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150583	006	MG4J21AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	001	MG4J51AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	002	MG4J71AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	003	MG4J81AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	004	MG4J91AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	005	MG4KA1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	006	MG4KC1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150584	007	MG4KE1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D180499	024	MG57A1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D180499	025	MG57C1AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D180506	001	MG6C81AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D180506	002	MG6C91AA	1109085	1109076		04/19/11	MCAWW 160.3 MOD
A1D150489	004	MG3RV1AC	1110088	1109076		04/19/11	MCAWW 160.3 MOD
A1D150489	005	MG3RW1AC	1110088	1109076		04/19/11	MCAWW 160.3 MOD

EXECUTIVE SUMMARY - Detection Highlights

A1D150489

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SD04-SSA-0411 04/14/11 10:40 001				
Percent Solids	74.8	10.0	%	MCAWW 160.3 MOD
SD05-SSA-0411 04/14/11 14:28 002				
Percent Solids	48.2	10.0	%	MCAWW 160.3 MOD
SD06-LAN-0411 04/14/11 12:30 003				
Percent Solids	68.2	10.0	%	MCAWW 160.3 MOD
SD11-LAN-0411 04/14/11 11:50 004				
Percent Solids	57.1	10.0	%	MCAWW 160.3 MOD
SD12-LAN-0411 04/14/11 14:15 005				
Percent Solids	72.2	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A1D150489

PARAMETER	ANALYTICAL METHOD
Total Residue as Percent Solids	MCAWW 160.3 MOD

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SAMPLE SUMMARY

A1D150489

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MG3RN	001	SD04-SSA-0411	04/14/11	10:40
MG3RQ	002	SD05-SSA-0411	04/14/11	14:28
MG3RT	003	SD06-LAN-0411	04/14/11	12:30
MG3RV	004	SD11-LAN-0411	04/14/11	11:50
MG3RW	005	SD12-LAN-0411	04/14/11	14:15

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: SD04-SSA-0411

General Chemistry

Lot-Sample #...: A1D150489-001 **Work Order #...:** MG3RN **Matrix.....:** SO
Date Sampled...: 04/14/11 10:40 **Date Received..:** 04/15/11
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**74.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1110087**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD05-SSA-0411

General Chemistry

Lot-Sample #...: A1D150489-002 **Work Order #...:** MG3RQ **Matrix.....:** SO
Date Sampled...: 04/14/11 14:28 **Date Received..:** 04/15/11
% Moisture.....: 52

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**48.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1110087**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD06-LAN-0411

General Chemistry

Lot-Sample #...: A1D150489-003 **Work Order #...:** MG3RT **Matrix.....:** SO
Date Sampled...: 04/14/11 12:30 **Date Received..:** 04/15/11
% Moisture.....: 32

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**68.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/18-04/19/11**	**1110087**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: SD11-LAN-0411

General Chemistry

Lot-Sample #...: A1D150489-004 **Work Order #...:** MG3RV **Matrix.....:** SO
Date Sampled...: 04/14/11 11:50 **Date Received..:** 04/15/11
% Moisture.....: 43

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**57.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/19-04/20/11**	**1110088**
	Dilution Factor: 1			MDL.....: 10.0		

Ohio Environmental Protection Agency

Client Sample ID: SD12-LAN-0411

General Chemistry

Lot-Sample #...: A1D150489-005 **Work Order #...:** MG3RW **Matrix.....:** SO
Date Sampled...: 04/14/11 14:15 **Date Received..:** 04/15/11
% Moisture.....: 28

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**72.2**	**10.0**	**%**	**MCAWW 160.3 MOD**	**04/19-04/20/11**	**1110088**

Dilution Factor: 1 MDL.....: 10.0

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1D150489 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MG8WM1AA		MB Lot-Sample #:	A1D200000-087	
	ND	10.0	%	MCAWW 160.3 MOD	04/18-04/19/11	1110087
		Dilution Factor: 1				
Percent Solids		Work Order #: MG8WP1AA		MB Lot-Sample #:	A1D200000-088	
	ND	10.0	%	MCAWW 160.3 MOD	04/19-04/20/11	1110088
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150489 **Work Order #...:** MG3N1-SMP **Matrix.....:** SOLID
MG3N1-DUP
Date Sampled...: 04/13/11 13:10 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150470-014		
	83.8	83.6	%	0.32	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108157

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150489 **Work Order #...:** MG3PA-SMP MG3PA-DUP **Matrix.....:** SOLID

Date Sampled...: 04/13/11 13:36 **Date Received..:** 04/15/11

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150470-017		
	84.7	84.5	%	0.27	(0-20)	MCAWW 160.3 MOD	04/18-04/19/11	1108157

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150489 **Work Order #...:** MG4JR-SMP **Matrix.....:** SOLID
MG4JR-DUP
Date Sampled...: 04/14/11 13:40 **Date Received..:** 04/15/11
% Moisture.....: 16

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150583-001		
	84.4	85.4	%	1.1	(0-20)	MCAWW 160.3 MOD	04/19-04/20/11	1109085

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1D150489 **Work Order #...:** MG4J0-SMP **Matrix.....:** SOLID
MG4J0-DUP
Date Sampled...: 04/14/11 13:30 **Date Received..:** 04/15/11
% Moisture.....: 11

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1D150583-004		
	89.3	88.8	%	0.51	(0-20)	MCAWW 160.3 MOD	04/19-04/20/11	1109085

Dilution Factor: 1

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DAYTON DATA

TestAmerica
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4738 Gateway Circle Dayton, OH 45440 (800) 572-9839
339 W. Walton Blvd Pontiac, MI 48340 (800) 526-4951

April 26, 2011

Client:

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720

Attn: Denise Pohl

Work Order: DUD0796
Project Name: Ohio EPA
Project Number: A1D150489

Date Received: 04/16/11

Samples logged in at Dayton laboratory.

An executed copy of the Chain of Custody is also included as an addendum to this report.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at the number shown above.

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
A1D150489-1 (SD04-SSA-0411)	DUD0796-01	04/14/11 10:40
A1D150489-2 (SD05-SSA-0411)	DUD0796-02	04/14/11 14:28
A1D150489-3 (SD06-LAN-0411)	DUD0796-03	04/14/11 12:30
A1D150489-4 (SD11-LAN-0411)	DUD0796-04	04/14/11 11:50
A1D150489-5 (SD12-LAN-0411)	DUD0796-05	04/14/11 14:15
A1D150489-6 (SW01-LAN-0411)	DUD0796-06	04/14/11 11:35
A1D150489-7 (SWDUP0414)	DUD0796-07	04/14/11
A1D150489-8 (SW02-LAN-0411)	DUD0796-08	04/14/11 14:00

Case Narrative: Results for ethylene glycol are Ohio VAP compliant at values at or above the laboratory reporting limit (RL). Values that are reported between the RL and laboratory method detection level are not compliant with the Ohio VAP program because they are estimated.

Ohio Certification Number: 4074, 857

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TestAmerica Laboratories, Inc. certifies that the analytical results contained herein apply only to the samples tested as received by our Laboratory.

Report Approved By:

This report has been electronically signed.

TestAmerica Dayton
Deborah Olszowka
Dayton Senior Project Manager

TestAmerica
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TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0796
Project: Ohio EPA
Project Number: A1D150489

Received: 04/16/11
Reported: 04/26/11 14:49

ANALYTICAL REPORT

Analyte	Sample Result	Data Qualifiers	Units	MDL	RL	Dilution Factor	Date Analyzed	Analyst	Seq/ Batch	Method
Sample ID: DUD0796-01 (A1D150489-1 (SD04-SSA-0411) - Non-aqueous)						**Sampled: 04/14/11 10:40**			**Recvd: 04/16/11 10:15**	
General Chemistry Parameters										
Dry Weight	**68.3**		%	NA	0.100	1	04/22/11 13:20	jlb	11D0868	SW 846
Alcohols/Glycols/VSO by GC										
Ethylene glycol	**1.63**	J	mg/kg dry	1.43	7.17	1	04/25/11 11:52	cm	11D0909	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*117 %*						04/25/11 11:52	cm	11D0909	SW 8015m
Sample ID: DUD0796-02 (A1D150489-2 (SD05-SSA-0411) - Non-aqueous)						**Sampled: 04/14/11 14:28**			**Recvd: 04/16/11 10:15**	
General Chemistry Parameters										
Dry Weight	**62.4**		%	NA	0.100	1	04/22/11 13:20	jlb	11D0868	SW 846
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.57		mg/kg dry	1.57	7.86	1	04/25/11 12:08	cm	11D0909	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*115 %*						04/25/11 12:08	cm	11D0909	SW 8015m
Sample ID: DUD0796-03 (A1D150489-3 (SD06-LAN-0411) - Non-aqueous)						**Sampled: 04/14/11 12:30**			**Recvd: 04/16/11 10:15**	
General Chemistry Parameters										
Dry Weight	**57.8**		%	NA	0.100	1	04/22/11 13:20	jlb	11D0868	SW 846
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.71		mg/kg dry	1.71	8.55	1	04/25/11 12:21	cm	11D0909	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*93 %*						04/25/11 12:21	cm	11D0909	SW 8015m
Sample ID: DUD0796-04 (A1D150489-4 (SD11-LAN-0411) - Non-aqueous)						**Sampled: 04/14/11 11:50**			**Recvd: 04/16/11 10:15**	
General Chemistry Parameters										
Dry Weight	**50.9**		%	NA	0.100	1	04/22/11 13:20	jlb	11D0868	SW 846
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.89		mg/kg dry	1.89	9.44	1	04/25/11 15:18	cm	11D0909	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*102 %*						04/25/11 15:18	cm	11D0909	SW 8015m
Sample ID: DUD0796-05 (A1D150489-5 (SD12-LAN-0411) - Non-aqueous)						**Sampled: 04/14/11 14:15**			**Recvd: 04/16/11 10:15**	
General Chemistry Parameters										
Dry Weight	**74.9**		%	NA	0.100	1	04/22/11 13:20	jlb	11D0868	SW 846
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<1.23		mg/kg dry	1.23	6.14	1	04/25/11 13:00	cm	11D0909	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*101 %*						04/25/11 13:00	cm	11D0909	SW 8015m
Sample ID: DUD0796-06 (A1D150489-6 (SW01-LAN-0411) - Water - NonPotable)						**Sampled: 04/14/11 11:35**			**Recvd: 04/16/11 10:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<0.271		mg/L	0.271	1.00	1	04/19/11 17:25	cm	11D0718	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*95 %*						04/19/11 17:25	cm	11D0718	SW 8015m
Sample ID: DUD0796-07 (A1D150489-7 (SWDUP0414) - Water - NonPotable)						**Sampled: 04/14/11**			**Recvd: 04/16/11 10:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<0.271		mg/L	0.271	1.00	1	04/19/11 17:49	cm	11D0718	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*110 %*						04/19/11 17:49	cm	11D0718	SW 8015m
Sample ID: DUD0796-08 (A1D150489-8 (SW02-LAN-0411) - Water - NonPotable)						**Sampled: 04/14/11 14:00**			**Recvd: 04/16/11 10:15**	
Alcohols/Glycols/VSO by GC										
Ethylene glycol	<0.271		mg/L	0.271	1.00	1	04/19/11 18:13	cm	11D0718	SW 8015m
Surr: 1,4-Butanediol (70-130%)	*101 %*						04/19/11 18:13	cm	11D0718	SW 8015m

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North Canton, OH 44720
Denise Pohl

Work Order: DUD0796
Project: Ohio EPA
Project Number: A1D150489

Received: 04/16/11
Reported: 04/26/11 14:49

LABORATORY BLANK QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0718			mg/L	0.271	1.00	<0.271							
Propylene glycol	11D0718			mg/L	0.140	1.00	<0.140							
Surrogate: 1,4-Butanediol	*11D0718*			mg/L					*116*		*70-130*			
Ethylene glycol	11D0909			mg/kg wet	0.965	4.83	<0.965							
Propylene glycol	11D0909			mg/kg wet	0.965	4.83	<0.965							
Surrogate: 1,4-Butanediol	*11D0909*			mg/kg wet					*115*		*70-130*			

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North Canton, OH 44720
Denise Pohl

Work Order: DUD0796
Project: Ohio EPA
Project Number: A1D150489

Received: 04/16/11
Reported: 04/26/11 14:49

LABORATORY DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
General Chemistry Parameters													
QC Source Sample: DUD0791-01													
Dry Weight	11D0868	14.9		%	N/A	0.100	14.0				6	10	

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order: DUD0796
Project: Ohio EPA
Project Number: A1D150489

Received: 04/16/11
Reported: 04/26/11 14:49

LCS/LCS DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
Ethylene glycol	11D0718		5.00	mg/L	0.271	1.00	5.05		101		65-129			
Propylene glycol	11D0718		5.00	mg/L	0.140	1.00	4.77		95		74-121			
Surrogate: 1,4-Butanediol	*11D0718*			mg/L					*120*		*70-130*			
Ethylene glycol	11D0909		24.5	mg/kg wet	0.981	4.91	29.1		119		56-128			
Propylene glycol	11D0909		24.5	mg/kg wet	0.981	4.91	25.7		105		60-131			
Surrogate: 1,4-Butanediol	*11D0909*			mg/kg wet					*120*		*70-130*			

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Reported: 04/26/11 14:49

MATRIX SPIKE/MATRIX SPIKE DUPLICATE QC DATA

Analyte	Seq/ Batch	Source Result	Spike Level	Units	MDL	MRL	Result	Dup Result	% REC	Dup %REC	% REC Limits	RPD	RPD Limit	Q
Alcohols/Glycols/VSO by GC														
QC Source Sample: DUD0796-06														
Ethylene glycol	11D0718	<0.271348	5.00	mg/L	0.271	1.00	5.04	5.08	101	102	65-129	1	25	
Propylene glycol	11D0718	<0.1396409	5.00	mg/L	0.140	1.00	4.76	4.65	95	93	74-121	2	25	
Surrogate: 1,4-Butanediol	*11D0718*			mg/L					*118*	*118*	*70-130*			

TestAmerica North Canton
4101 Shuffel Dr. NW
North Canton, OH 44720
Denise Pohl

Work Order:	DUD0796	Received:	04/16/11
Project:	Ohio EPA	Reported:	04/26/11 14:49
Project Number:	A1D150489		

CERTIFICATION SUMMARY

Any abnormalities or departures from sample acceptance policy shall be documented on the Chain of Custody and/or Case Narrative included with this report.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

Samples collected by TestAmerica Field Services personnel are noted on the Chain of Custody (COC) .

DATA QUALIFIERS AND DEFINITIONS

J Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of unknown quality.

ADDITIONAL COMMENTS

Results are reported on a wet weight basis unless otherwise noted in the units.

ANALYSIS LOCATIONS

Any analyses listed below were analyzed in satellite facilities

Laboratory TestAmerica Dayton
4738 Gateway Circle
DAYTON, OH 45440

TestAmerica Laboratories, Inc.
SAMPLE ANALYSIS REQUISTION

DVD0796
Report Package: Report

Lab Request SR126626 Need Analytical Report 2011-04-29

Client Code: 1431917

Project Manager: DENISE POHL

Sample I.D.	Work Order Number	Client Sample ID	Sampling Date	Analysis Required
A1D150489-1	MG3RN	SD04-SSA-0411	2011-04-14 10:40	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D150489-2	MG3RQ	SD05-SSA-0411	2011-04-14 14:28	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D150489-3	MG3RT	SD06-LAN-0411	2011-04-14 12:30	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D150489-4	MG3RV	SD11-LAN-0411	2011-04-14 11:50	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D150489-5	MG3RW	SD12-LAN-0411	2011-04-14 14:15	SOLID, 8015 mod, Ethylene Glycol- DAYTON
A1D150489-6	MG3RX	SW01-LAN-0411	2011-04-14 11:35	WATER, 8015 MOD, Ethylene Glycol- DAYTO
A1D150489-7	MG3R0	SWDUP0414	2011-04-14	WATER, 8015 MOD, Ethylene Glycol- DAYTO
A1D150489-8	MG3R2	SW02-LAN-0411	2011-04-14 14:00	WATER, 8015 MOD, Ethylene Glycol- DAYTO

Please use Client Sample ID for report
Call DENISE POHL with questions at 330-497-9396
at the TAL North Canton Laboratory

Shipping Method: FED EX

Need detection limit and analysis date included in report.

Please send a signed copy of this form with the report at completion of analysis.

Relinquished by: _____ Date/Time: 4/15/11 1400

Relinquished by: _____ Date/Time: _____

Received for lab by: _____ Date/Time: 4/16/11 1015

PLEASE RETURN ORIGINAL SAMPLE ANALYSIS REQUISITION

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cooler/Sample Receipt

☐ MSDS or Known Hazard Information Supplied by Client
☐ Bottle stickers applied ☐ ELEMENT comment entered ☐ MSDS/COC scanned/emailed to EH&S
☐ Discrepancies Client ID W Creek
☐ Short Hold Work Order # DUD0796
☐ Rush ☐24hr ☐2day ☐3day ☐5day ☐other
Receipt evaluation performed by - Initials: JH Date: 4/16/11 Time: 1015

Method of Shipment:
☐ Walk-In Client ☐ TestAmerica Field/Courier
☐ Other Client/3rd Party Courier
☒ Fed Ex Tracking # 9784 9675 9370
☐ UPS Tracking #
☐ Other

Shipping Container Type:
☒ Cooler ☐ Box
☐ None ☐ Other
Packing Materials:
☒ Plastic Bags ☐ Foam
☒ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other

Custody Seals Intact:
☒ Yes ☐ No
☐ N/A (not used or required)
Cooling Materials:
☒ Ice *(solid)* ☐ Ice *(Melted)*
☐ Blue Ice ☐ None
☐ Other

Are there any soil samples from areas requiring USDA quarantine? *(AL, AR, AZ, CA, FL, GA, HI, ID, LA MS, NC, NM, NY, OK, SC, TN, TX, VA, Puerto Rico, Virgin Islands, any other Non-Domestic area)* ☒ **No** ☐ **Yes** (If Yes, *Project Manager must be notified).*

☐ **Check if Additional Sheets Required**

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Received on same day sampled?	Acceptable?*	Cooler ID	Note Affected Samples if temperature not acceptable
4	1.7	1.2	☒	☐	☐Yes ☐No	☐Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		
			☐	☐	☐Yes ☐No	☐Yes ☐No		

* Receipt temperatures are considered acceptable if the samples are received on the same day they were collected & show signs that the cooling process has started. Temperature acceptance for most tests is ≤6.0°C, **but not frozen**. For additional information, please refer to SOP DT-SCA-004 ***Sample Receipt and Login, Attachment 2 – Holding Times, Preservation and Container Requirements.***

Receipt Questions**	Y	N	n/a	"No" answers require additional comment
COC present & TA receipt signature, date, & time properly documented?				
Containers & labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)*				
Appropriate containers used & adequate volume provided?				
Number of sample containers match COC?				
Samples received within hold time?				
Samples submitted for GRO and Volatiles analyses (8260, 624, 524) received without headspace?				
Was a Trip Blank received with VOA samples?				
Were the samples free of any questionable physical conformities? For example, field duplicates or multiple bottles of the same sample do not significantly vary in appearance (color, proportion of solids, etc.)				
Were the COC, bottle labels, and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?				

** May not be applicable if samples are not for compliance testing

Client Contact Record
Contact via: ☐ Phone ☐ Email ☐ Other **Person Contacted:** **Date/Time:**
☐ Discrepancy allowance agreement is on record in the client project file.
Discussion/Resolution:

Any additional documentation and clarification from client must be noted in the narrative and/or scanned into the COC directory.

DMO 4/19/11
Reviewed by PM Signature Date

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact: Vicky Farmer	Lab Contact: Denise Pohl	COC No: 019597
Address: 250 W Court #200W	Telephone:	Telephone: 573 348 2080	Telephone:	1 of 4 COCs
City/State/Zip: Cinci OH 45202	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone: 573 348 2080		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab pickup: ☐ Lab sampling: ☐ Job/SDG No.:
Project Name: Mansfield Ph 2	Method of Shipment/Carrier:			
Project Number: 103S17104	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite C (Grab G)	TPH DRO/GRO	PAH	Metals	PCB	VOC	Sample Specific Notes / Special Instructions:
SB66-CSA-04-0411	4-13	1325				X							X				X	X	X	X		
SB92-New-2530-0411		1014																			X	
SB67-CSA-04-0411		1340																				
SB69-CSA-02-0411		1331																				
SB68-CSA-04-0411		1336																				
SB93-New-2730-0411		1138																			X	
SB69-CSA-04-0411		1331																				
SB91-New-2527-0411		0908																			X	
SB65-CSA-04-0411		1321																				
SB64-CSA-04-0411		1316																				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	TT	4/14 @ 1718			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/15/11 915

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				COC No: 019596
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	
Address:	Telephone:	Telephone:	Telephone:	2 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only:
Phone:		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab pickup ☐ Lab shipping ☐
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			TA/SDG No.:
P O #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite = C; Grab = G	TPH DRO/GRO	PCB	PAH	METALS	VOC						Sample Specific Notes / Special Instructions:
DUP0413	4-13-11	—				X							X		NG	X	X	X	X	X							
SB63-CSA-02-0411		1310																									
SB65-CSA-02-0411		1321																									
SB63-CSA-04-0411		1310																									
SB66-CSA-02-0411		1325																									
SB62-CSA-04-0411		1304																									
SB68-CSA-02-0411		1336																									
SB62-CSA-02-0411		1304																									
Landfill Boring 2		1458																									
GW61-CSA-0411	↓	1250		V						X			X				X	X	X	X	X						

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
W Farmer	TT	4/14 1718			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAL	4/15/11 915

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019598
Address:	Telephone:	Telephone:	Telephone:	3 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)		For lab use only:
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client: ☐ Lab pickup: ☐ Lab shipping: ☐ Job/SDG No:
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
P O #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite (Y/N)	Analyses: VOC	PAH	Ethylene Glycol	PCB	Methane	TPH 8015/8260					Sample Specific Notes / Special Instructions:
SD04-SSA-0411	4-14	1040			X								X		N	N	X	X	X								
SD05-SSA-0411	↓	1428			X								X				X	X	X								
SD06-LAN-0411		1230			X								X				X	X	X								
SD07-LAN-0911		1210			X								X				X	X		X	X						
SD08-LAN-0411		1100			X								X				X	X		X	X						
SD11-LAN-0911		1150			X								X				X	X	X		X						
SD13-CSA-0411		1535			X								X					X		X	X	X					
SD12-LAN-0411		1445			X								X				X	X	X		X						
SW01-Lan-0411		1135		X						X			Y				X	X	X		Y						
BSWDUP0414	↓	—		X						X			X				X	X	X		X						

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: [signature]	Company: TT	Date/Time: 4/14 1718	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TAL	Date/Time: 4/15/11 905

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TAL 0018-1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019480
Address:	Telephone:	Telephone:	Telephone:	4 of 4 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Walk-in client ☐ Lab sampling ☐ Job/SDG No:
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite C / Grab G	VOC	Ethylene Gly	PAH	Metals	Sample Specific Notes / Special Instructions:
SWO2-lan-0411	4-14	1400		X						Y			Y			G	X	X	X	X	
Trip Blank	↓	1716		X						X						G	X				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT	4/14 1718			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				JTAL	4/15/11 915

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 410150489
North Canton Facility

Client Tetra Tech Project Mansfield By: [signature]
Cooler Received on 4-15-11 Opened on 4-15-11 (Signature)
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other ____
TestAmerica Cooler # ____ Multiple Coolers ☒ Foam Box ☐ Client Cooler ☐ Other ____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity ____ Quantity Unsalvageable ____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions? ____
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other ____
6. Cooler temperature upon receipt ____ °C See back of form for multiple coolers/temps ☒
   METHOD: IR ☒ Other ☐ ____ BACK
   COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☒ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☒ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☒ No ☐ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM ____ Date ____ by ____ via Verbal ☐ Voice Mail ☐ Other ☐
Concerning ____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.
Sample(s) ____ were received in a broken container.
Sample(s) ____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)? ____

Client ID	pH	Date	Initials
SW01-LAN	<2	4/15/11	CSL
PUP	<2	"	"
SW02	<2	"	"

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler #	Temp. °C	Method	Coolant
A489	2.7	IR	Ice
A197	2.3	"	"
A639	2.9	"	"
A844	2.5	"	"
A76	1.9	"	"

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

PROJECT NO. 1035171404.002

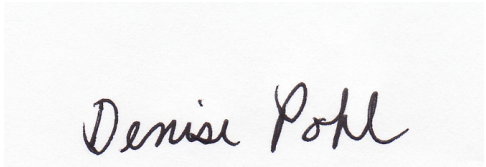
MANSFIELD STAMPING PLANT

Lot #: A1E020418

Martin Smith

Ohio Environmental Protection
Div of Emergency & Remedial Re
50 West Town Street
Suite 700
Columbus, OH 43215

TESTAMERICA LABORATORIES, INC.



Approved for release.
Denise Pohl
Project Manager
5/26/2011 2:46 PM

Denise Pohl
Project Manager
denise.pohl@testamericainc.com

May 24, 2011

TestAmerica Laboratories, Inc.
TestAmerica North Canton 4101 Shuffel Street NW, North Canton, OH 44720
Tel (330)497-9396 Fax (330)497-0772 www.testamericainc.com

ACCREDITED IN ACCORDANCE WITH nelac

CASE NARRATIVE

A1E020418

The following report contains the analytical results for two solid samples, ten water samples and one quality control sample submitted to TestAmerica North Canton by Ohio Environmental Protection Agency from the MANSFIELD STAMPING PLANT Site, project number 1035171404.002. The samples were received April 30, 2011, according to documented sample acceptance procedures and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnapthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Ohio Voluntary Action Program.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Guy Montfort and Martin Smith on May 10, 2011, and Guy Montfort, Martin Smith, and Vicky Farmer on May 22, 2011. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

All parameters were evaluated to the method detection limit and include qualified results where applicable.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

CASE NARRATIVE (continued)

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The coolers were received at temperatures ranging from 1.2 to 4.6° C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 1132384 and 1132282 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

2-Chloroethyl vinyl ether cannot be reliably recovered in an acid preserved sample.

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for MW 4-7 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES (cont)

The matrix spike/matrix spike duplicate(s) for batch(es) 1123029 and 1123031 had recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

The client specific or regulatory program requirements stated that corrective action must be performed for surrogate recoveries outside criteria. The re-preparation and reanalysis also had surrogate recoveries outside criteria confirming probable matrix interference; therefore, the original data are contained in the report for sample(s) MW 9-1.

PURGEABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

EXTRACTABLE PETROLEUM HYDROCARBONS-8015

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "J". Refer to the sample report pages for the affected analyte(s).

Solid samples with MS/MSD's utilize targeted weights due to LIM's calculation limitations. Weights are not targeted for all other solid metals samples.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data. Program or agency specific requirements take precedence over the requirements listed in this narrative.

QC BATCH

Environmental samples are taken through the testing process in groups called Quality Control Batches (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, a Matrix Spike/Matrix Spike Duplicate (MS/MSD) pair or a Matrix Spike/Sample Duplicate (MS/DU) pair.
For 600 series/CWA methods, QC samples include a Method Blank (MB), a Laboratory Control Sample (LCS) and, where appropriate, a Matrix Spike (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch, with the exception of poor performing analytes. A list of these analytes is listed below. No corrective action is taken if these analytes do not meet criteria.Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

Poor performers

Method 8270 Water and Solid:	
4-Nitrophenol	3,3' – Dichlorobenzidine
Benzoic Acid	2,4,6 - Tribromophenol
Phenol	2,4-Dinitrophenol
Phenol-d5	Pentachlorophenol
4,6-Dinitro-2-methylphenol	Hexachlorocyclopentadiene (LCG only)
Benzyl Alcohol	4-Chloroaniline
Method 8151 Solid	
Dinoseb	
Method 8260 Water and Solid	
Dichlorodifluoromethane	Hexachlorobutadiene
Trichlorofluoromethane	Naphthalene
Chloroethane	1,2,3-Trichlorobenzene
Acetone	1,2,4-Trichlorobenzene
Bromomethane	2,2-Dichloropropane
Bromoform	Chloromethane

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be ten fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals ICP-MS	Metals ICP Trace
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.

- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results do not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate or Matrix Spike/Sample Duplicate.

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater. For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.

TestAmerica Certifications and Approvals:

The laboratory is certified for the analytes listed on the documents below. These are available upon request.
California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),

Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Nevada (#OH-000482008A), OhioVAP (#CL0024), Pennsylvania (#008), West Virginia (#210), Wisconsin (#999518190), DoD ELAP (ADE-1437) USDA Soil Permit (P33-08-00123)

EXECUTIVE SUMMARY - Detection Highlights

A1E020418

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW 4-7 04/28/11 09:17 001				
C20-C34	250 J	500	ug/L	SW846 8015B
Gasoline Range Organics (C6-C12)	43 J	100	ug/L	SW846 8015A MOD
Barium - DISSOLVED	79.8 B,J	200	ug/L	SW846 6010B
1,1-Dichloroethane	12	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	2.2	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	34	1.0	ug/L	SW846 8260B
MW 5-2S 04/28/11 12:15 002				
Gasoline Range Organics (C6-C12)	36 J	100	ug/L	SW846 8015A MOD
Barium - DISSOLVED	27.0 B,J	200	ug/L	SW846 6010B
cis-1,2-Dichloroethene	6.9	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.0	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.75 J	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B
Vinyl chloride	1.6 J	2.0	ug/L	SW846 8260B
MW 5-2D 04/28/11 13:32 003				
Arsenic - DISSOLVED	14.5	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	141 B,J	200	ug/L	SW846 6010B
MW 9-1 04/28/11 13:30 004				
C20-C34	650	500	ug/L	SW846 8015B
Lead - DISSOLVED	2.9 B	3.0	ug/L	SW846 6010B
Barium - DISSOLVED	28.2 B,J	200	ug/L	SW846 6010B
Chromium - DISSOLVED	4.3 B	10.0	ug/L	SW846 6010B
Benzo(b)fluoranthene	0.23	0.20	ug/L	SW846 8270C
Chrysene	0.26	0.20	ug/L	SW846 8270C
Fluoranthene	0.48	0.20	ug/L	SW846 8270C
Phenanthrene	0.28	0.20	ug/L	SW846 8270C
Pyrene	0.38	0.20	ug/L	SW846 8270C
MW 5-4 04/28/11 15:50 005				
Arsenic - DISSOLVED	38.7	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	48.2 B,J	200	ug/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1E020418

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW 10-2 04/27/11 15:41 006				
Lead - DISSOLVED	2.4 B	3.0	ug/L	SW846 6010B
Barium - DISSOLVED	176 B,J	200	ug/L	SW846 6010B
Chromium - DISSOLVED	21.0	10.0	ug/L	SW846 6010B
Carbon disulfide	0.28 J	1.0	ug/L	SW846 8260B
MW 2-1 04/27/11 17:42 007				
Gasoline Range Organics (C6-C12)	26 J	100	ug/L	SW846 8015A MOD
Arsenic - DISSOLVED	33.3	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	452 J	200	ug/L	SW846 6010B
MW 5-1 04/27/11 19:55 008				
Gasoline Range Organics (C6-C12)	29 J	100	ug/L	SW846 8015A MOD
Arsenic - DISSOLVED	16.0	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	36.2 B,J	200	ug/L	SW846 6010B
BACKGROUND-13-0422 04/22/11 10:00 009				
Mercury	0.019 B	0.12	mg/kg	SW846 7471A
Arsenic	14.0	0.99	mg/kg	SW846 6010B
Lead	12.8	0.30	mg/kg	SW846 6010B
Barium	28.8 J	19.8	mg/kg	SW846 6010B
Cadmium	0.30 B	0.49	mg/kg	SW846 6010B
Chromium	11.6	0.99	mg/kg	SW846 6010B
Percent Solids	82.0	10.0	%	MCAWW 160.3 MOD
BACKGROUND-23-0422 04/22/11 10:10 010				
Arsenic	13.8	0.93	mg/kg	SW846 6010B
Lead	12.4	0.28	mg/kg	SW846 6010B
Barium	63.1 J	18.7	mg/kg	SW846 6010B
Cadmium	0.41 B	0.47	mg/kg	SW846 6010B
Chromium	10.3	0.93	mg/kg	SW846 6010B
Percent Solids	86.7	10.0	%	MCAWW 160.3 MOD
MW 2-2 04/29/11 11:00 011				
C20-C34	500	500	ug/L	SW846 8015B
C10-C20	260 J	500	ug/L	SW846 8015B
Gasoline Range Organics (C6-C12)	25 J	100	ug/L	SW846 8015A MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A1E020418

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
MW 2-2 04/29/11 11:00 011				
Arsenic - DISSOLVED	7.9 B	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	142 B,J	200	ug/L	SW846 6010B
DUPLICATE 04/28/11 012				
Gasoline Range Organics (C6-C12)	26 J	100	ug/L	SW846 8015A MOD
Mercury - DISSOLVED	0.19 B	0.20	ug/L	SW846 7470A
Arsenic - DISSOLVED	12.7	10.0	ug/L	SW846 6010B
Barium - DISSOLVED	138 B,J	200	ug/L	SW846 6010B
TRIP BLANK 04/28/11 013				
Acetone	3.1 J	10	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	0.23 J,B	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A1E020418

PARAMETER	ANALYTICAL METHOD
Extractable Petroleum Hydrocarbons	SW846 8015B
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics	SW846 8015A MOD
Volatile Organics by GC/MS	SW846 8260B

References:

MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A1E020418

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MHQKD	001	MW 4-7	04/28/11	09:17
MHQKP	002	MW 5-2S	04/28/11	12:15
MHQKQ	003	MW 5-2D	04/28/11	13:32
MHQKR	004	MW 9-1	04/28/11	13:30
MHQKT	005	MW 5-4	04/28/11	15:50
MHQKV	006	MW 10-2	04/27/11	15:41
MHQKW	007	MW 2-1	04/27/11	17:42
MHQKX	008	MW 5-1	04/27/11	19:55
MHQK0	009	BACKGROUND-13-0422	04/22/11	10:00
MHQK1	010	BACKGROUND-23-0422	04/22/11	10:10
MHQK2	011	MW 2-2	04/29/11	11:00
MHQK4	012	DUPLICATE	04/28/11	
MHQLJ	013	TRIP BLANK	04/28/11	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

GC/MS Volatiles

Lot-Sample #...: A1E020418-001 **Work Order #...:** MHQKD1AH **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	**12**	**1.0**	**ug/L**	**0.15**
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	**2.2**	**1.0**	**ug/L**	**0.19**
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

GC/MS Volatiles

Lot-Sample #...: A1E020418-001 **Work Order #...:** MHQKD1AH **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	**34**	**1.0**	**ug/L**	**0.22**
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(75 - 121)
1,2-Dichloroethane-d4	95	(63 - 129)
Toluene-d8	96	(74 - 115)
4-Bromofluorobenzene	77	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-001 **Work Order #...:** MHQKD1AL **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	57	(27 - 111)
2-Fluorobiphenyl	60	(28 - 110)
Terphenyl-d14	59	(37 - 119)
Phenol-d5	18	(10 - 110)
2-Fluorophenol	31	(10 - 110)
2,4,6-Tribromophenol	70	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

GC Volatiles

Lot-Sample #...: A1E020418-001 **Work Order #...:** MHQKD1AA **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**43 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	78	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

GC Semivolatiles

Lot-Sample #...: A1E020418-001 **Work Order #...:** MHQKD1AE **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**250 J**	**500**	**ug/L**	**240**
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	71	(10 - 110)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 4-7

DISSOLVED Metals

Lot-Sample #...: A1E020418-001 **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1A4
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**79.8 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKD1AP**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1AT
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1A7
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1AW
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1CA
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKD1A1
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKD1CE
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

GC/MS Volatiles

Lot-Sample #...: A1E020418-002 **Work Order #...:** MHQKP1AG **Matrix.....:** WG
Date Sampled...: 04/28/11 12:15 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	**6.9**	**1.0**	**ug/L**	**0.17**
trans-1,2-Dichloroethene	**1.0**	**1.0**	**ug/L**	**0.19**
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	**0.75 J**	**1.0**	**ug/L**	**0.29**

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Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

GC/MS Volatiles

Lot-Sample #...: A1E020418-002 **Work Order #...:** MHQKP1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	**11**	**1.0**	**ug/L**	**0.17**
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	**1.6 J**	**2.0**	**ug/L**	**0.22**
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(75 - 121)
1,2-Dichloroethane-d4	92	(63 - 129)
Toluene-d8	93	(74 - 115)
4-Bromofluorobenzene	72	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-002 **Work Order #...:** MHQKP1AH **Matrix.....:** WG
Date Sampled...: 04/28/11 12:15 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(27 - 111)
2-Fluorobiphenyl	65	(28 - 110)
Terphenyl-d14	64	(37 - 119)
Phenol-d5	21	(10 - 110)
2-Fluorophenol	36	(10 - 110)
2,4,6-Tribromophenol	71	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

GC Volatiles

Lot-Sample #...: A1E020418-002 **Work Order #...:** MHQKP1AE **Matrix.....:** WG
Date Sampled...: 04/28/11 12:15 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**36 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	81	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

GC Semivolatiles

Lot-Sample #...: A1E020418-002 **Work Order #...:** MHQKP1AF **Matrix.....:** WG
Date Sampled...: 04/28/11 12:15 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	64	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2S

DISSOLVED Metals

Lot-Sample #...: A1E020418-002 **Matrix.....:** WG
Date Sampled...: 04/28/11 12:15 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AC
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**27.0 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKP1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKP1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKP1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

GC/MS Volatiles

Lot-Sample #...: A1E020418-003 **Work Order #...:** MHQKQ1AG **Matrix.....:** WG
Date Sampled...: 04/28/11 13:32 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

GC/MS Volatiles

Lot-Sample #...: A1E020418-003 **Work Order #...:** MHQKQ1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	75	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-003 **Work Order #...:** MHQKQ1AH **Matrix.....:** WG
Date Sampled...: 04/28/11 13:32 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	62	(28 - 110)
Terphenyl-d14	60	(37 - 119)
Phenol-d5	20	(10 - 110)
2-Fluorophenol	34	(10 - 110)
2,4,6-Tribromophenol	69	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

GC Volatiles

Lot-Sample #...: A1E020418-003 **Work Order #...:** MHQKQ1AE **Matrix.....:** WG
Date Sampled...: 04/28/11 13:32 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	100	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	83	(10 - 150)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

GC Semivolatiles

Lot-Sample #...: A1E020418-003 **Work Order #...:** MHQKQ1AF **Matrix.....:** WG
Date Sampled...: 04/28/11 13:32 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	67	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-2D

DISSOLVED Metals

Lot-Sample #...: A1E020418-003 **Matrix.....:** WG
Date Sampled...: 04/28/11 13:32 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**14.5**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKQ1AC**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**141 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKQ1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKQ1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKQ1AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKQ1AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKQ1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKQ1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKQ1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-004 **Work Order #...:** MHQKR1AG **Matrix.....:** WG
Date Sampled...: 04/28/11 13:30 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-004 **Work Order #...:** MHQKR1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
Toluene-d8	93	(74 - 115)
4-Bromofluorobenzene	72	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-004 **Work Order #...:** MHQKR1AH **Matrix.....:** WG
Date Sampled...: 04/28/11 13:30 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/10/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	**0.23**	**0.20**	**ug/L**	**0.10**
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	**0.26**	**0.20**	**ug/L**	**0.10**
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	**0.48**	**0.20**	**ug/L**	**0.10**
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	**0.28**	**0.20**	**ug/L**	**0.10**
Pyrene	**0.38**	**0.20**	**ug/L**	**0.10**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(27 - 111)
2-Fluorobiphenyl	61	(28 - 110)
Terphenyl-d14	32 *	(37 - 119)
Phenol-d5	26	(10 - 110)
2-Fluorophenol	46	(10 - 110)
2,4,6-Tribromophenol	54	(22 - 120)

NOTE(S):

* Surrogate recovery is outside stated control limits.

Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

GC Volatiles

Lot-Sample #...: A1E020418-004 **Work Order #...:** MHQKR1AE **Matrix.....:** WG
Date Sampled...: 04/28/11 13:30 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	100	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	81	(10 - 150)

Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

GC Semivolatiles

Lot-Sample #...: A1E020418-004 **Work Order #...:** MHQKR1AF **Matrix.....:** WG
Date Sampled...: 04/28/11 13:30 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**650**	**500**	**ug/L**	**240**
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	66	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 9-1

DISSOLVED Metals

Lot-Sample #...: A1E020418-004 **Matrix.....:** WG
Date Sampled...: 04/28/11 13:30 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKR1AC
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**28.2 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKR1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKR1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	**2.9 B**	**3.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKR1AD**
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	**4.3 B**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKR1AL**
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKR1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKR1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKR1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

GC/MS Volatiles

Lot-Sample #...: A1E020418-005 **Work Order #...:** MHQKT1AG **Matrix.....:** WG
Date Sampled...: 04/28/11 15:50 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

GC/MS Volatiles

Lot-Sample #...: A1E020418-005 **Work Order #...:** MHQKT1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(75 - 121)
1,2-Dichloroethane-d4	106	(63 - 129)
Toluene-d8	96	(74 - 115)
4-Bromofluorobenzene	83	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-005 **Work Order #...:** MHQKT1AH **Matrix.....:** WG
Date Sampled...: 04/28/11 15:50 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(27 - 111)
2-Fluorobiphenyl	59	(28 - 110)
Terphenyl-d14	56	(37 - 119)
Phenol-d5	19	(10 - 110)
2-Fluorophenol	34	(10 - 110)
2,4,6-Tribromophenol	65	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

GC Volatiles

Lot-Sample #...: A1E020418-005 **Work Order #...:** MHQKT1AE **Matrix.....:** WG
Date Sampled...: 04/28/11 15:50 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	100	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

GC Semivolatiles

Lot-Sample #...: A1E020418-005 **Work Order #...:** MHQKT1AF **Matrix.....:** WG
Date Sampled...: 04/28/11 15:50 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	69	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-4

DISSOLVED Metals

Lot-Sample #...: A1E020418-005 **Matrix.....:** WG
Date Sampled...: 04/28/11 15:50 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**38.7**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKT1AC**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**48.2 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKT1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKT1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKT1AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKT1AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKT1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKT1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKT1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

GC/MS Volatiles

Lot-Sample #...: A1E020418-006 **Work Order #...:** MHQKV1AG **Matrix.....:** WG
Date Sampled...: 04/27/11 15:41 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	**0.28 J**	**1.0**	**ug/L**	**0.13**
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

GC/MS Volatiles

Lot-Sample #...: A1E020418-006 **Work Order #...:** MHQKV1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(75 - 121)
1,2-Dichloroethane-d4	102	(63 - 129)
Toluene-d8	96	(74 - 115)
4-Bromofluorobenzene	82	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-006 **Work Order #...:** MHQKV1AH **Matrix.....:** WG
Date Sampled...: 04/27/11 15:41 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(27 - 111)
2-Fluorobiphenyl	67	(28 - 110)
Terphenyl-d14	56	(37 - 119)
Phenol-d5	23	(10 - 110)
2-Fluorophenol	40	(10 - 110)
2,4,6-Tribromophenol	67	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

GC Volatiles

Lot-Sample #...: A1E020418-006 **Work Order #...:** MHQKV1AE **Matrix.....:** WG
Date Sampled...: 04/27/11 15:41 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	ND	100	ug/L	25

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	77	(10 - 150)

Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

GC Semivolatiles

Lot-Sample #...: A1E020418-006 **Work Order #...:** MHQKV1AF **Matrix.....:** WG
Date Sampled...: 04/27/11 15:41 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	60	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 10-2

DISSOLVED Metals

Lot-Sample #...: A1E020418-006 **Matrix.....:** WG
Date Sampled...: 04/27/11 15:41 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKV1AC
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**176 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKV1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKV1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	**2.4 B**	**3.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKV1AD**
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	**21.0**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKV1AL**
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKV1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKV1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKV1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-007 **Work Order #...:** MHQKW1AG **Matrix.....:** WG
Date Sampled...: 04/27/11 17:42 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-007 **Work Order #...:** MHQKW1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(75 - 121)
1,2-Dichloroethane-d4	103	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	83	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-007 **Work Order #...:** MHQKW1AH **Matrix.....:** WG
Date Sampled...: 04/27/11 17:42 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1123029
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	59	(27 - 111)
2-Fluorobiphenyl	59	(28 - 110)
Terphenyl-d14	54	(37 - 119)
Phenol-d5	17	(10 - 110)
2-Fluorophenol	33	(10 - 110)
2,4,6-Tribromophenol	69	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

GC Volatiles

Lot-Sample #...: A1E020418-007 **Work Order #...:** MHQKW1AE **Matrix.....:** WG
Date Sampled...: 04/27/11 17:42 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**26 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	87	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

GC Semivolatiles

Lot-Sample #...: A1E020418-007 **Work Order #...:** MHQKW1AF **Matrix.....:** WG
Date Sampled...: 04/27/11 17:42 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	69	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-1

DISSOLVED Metals

Lot-Sample #...: A1E020418-007 **Matrix.....:** WG
Date Sampled...: 04/27/11 17:42 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**33.3**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKW1AC**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**452 J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKW1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKW1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKW1AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKW1AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKW1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKW1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKW1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-008 **Work Order #...:** MHQKX1AG **Matrix.....:** WG
Date Sampled...: 04/27/11 19:55 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

GC/MS Volatiles

Lot-Sample #...: A1E020418-008 **Work Order #...:** MHQKX1AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(75 - 121)
1,2-Dichloroethane-d4	103	(63 - 129)
Toluene-d8	96	(74 - 115)
4-Bromofluorobenzene	82	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-008 **Work Order #...:** MHQKX1AH **Matrix.....:** WG
Date Sampled...: 04/27/11 19:55 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1123030
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	57	(27 - 111)
2-Fluorobiphenyl	56	(28 - 110)
Terphenyl-d14	64	(37 - 119)
Phenol-d5	15	(10 - 110)
2-Fluorophenol	34	(10 - 110)
2,4,6-Tribromophenol	58	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

GC Volatiles

Lot-Sample #...: A1E020418-008 **Work Order #...:** MHQKX1AE **Matrix.....:** WG
Date Sampled...: 04/27/11 19:55 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/06/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**29 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	79	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

GC Semivolatiles

Lot-Sample #...: A1E020418-008 **Work Order #...:** MHQKX1AF **Matrix.....:** WG
Date Sampled...: 04/27/11 19:55 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	ND	500	ug/L	240
C10-C20	ND	500	ug/L	240

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	67	(10 - 110)

Ohio Environmental Protection Agency

Client Sample ID: MW 5-1

DISSOLVED Metals

Lot-Sample #...: A1E020418-008 **Matrix.....:** WG
Date Sampled...: 04/27/11 19:55 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**16.0**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKX1AC**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**36.2 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQKX1AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKX1AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKX1AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKX1AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKX1AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQKX1AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQKX1AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: BACKGROUND-13-0422

TOTAL Metals

Lot-Sample #...: A1E020418-009 **Matrix.....:** SO
Date Sampled...: 04/22/11 10:00 **Date Received..:** 04/30/11
% Moisture.....: 18

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123019						
Arsenic	**14.0**	**0.99**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK01AC**
		Dilution Factor: 0.81		MDL.....: 0.30		
Lead	**12.8**	**0.30**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK01AD**
		Dilution Factor: 0.81		MDL.....: 0.19		
Barium	**28.8 J**	**19.8**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK01AF**
		Dilution Factor: 0.81		MDL.....: 0.070		
Selenium	ND	0.49	mg/kg	SW846 6010B	05/03-05/05/11	MHQK01AE
		Dilution Factor: 0.81		MDL.....: 0.44		
Cadmium	**0.30 B**	**0.49**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK01AG**
		Dilution Factor: 0.81		MDL.....: 0.036		
Chromium	**11.6**	**0.99**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK01AH**
		Dilution Factor: 0.81		MDL.....: 0.20		
Silver	ND	0.99	mg/kg	SW846 6010B	05/03-05/05/11	MHQK01AJ
		Dilution Factor: 0.81		MDL.....: 0.099		
Mercury	**0.019 B**	**0.12**	**mg/kg**	**SW846 7471A**	**05/03/11**	**MHQK01AA**
		Dilution Factor: 0.98		MDL.....: 0.018		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: BACKGROUND-13-0422

General Chemistry

Lot-Sample #...: A1E020418-009 **Work Order #...:** MHQK0 **Matrix.....:** SO
Date Sampled...: 04/22/11 10:00 **Date Received..:** 04/30/11
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**82.0**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/23-05/24/11**	**1143183**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: BACKGROUND-23-0422

TOTAL Metals

Lot-Sample #...: A1E020418-010 **Matrix.....:** SO
Date Sampled...: 04/22/11 10:10 **Date Received..:** 04/30/11
% Moisture.....: 13

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123019						
Arsenic	**13.8**	**0.93**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK11AC**
		Dilution Factor: 0.81		MDL.....: 0.28		
Lead	**12.4**	**0.28**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK11AD**
		Dilution Factor: 0.81		MDL.....: 0.18		
Barium	**63.1 J**	**18.7**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK11AF**
		Dilution Factor: 0.81		MDL.....: 0.066		
Selenium	ND	0.47	mg/kg	SW846 6010B	05/03-05/05/11	MHQK11AE
		Dilution Factor: 0.81		MDL.....: 0.42		
Cadmium	**0.41 B**	**0.47**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK11AG**
		Dilution Factor: 0.81		MDL.....: 0.034		
Chromium	**10.3**	**0.93**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHQK11AH**
		Dilution Factor: 0.81		MDL.....: 0.19		
Silver	ND	0.93	mg/kg	SW846 6010B	05/03-05/05/11	MHQK11AJ
		Dilution Factor: 0.81		MDL.....: 0.093		
Mercury	ND	0.096	mg/kg	SW846 7471A	05/03/11	MHQK11AA
		Dilution Factor: 0.83		MDL.....: 0.014		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: BACKGROUND-23-0422

General Chemistry

Lot-Sample #...: A1E020418-010 **Work Order #...:** MHQK1 **Matrix.....:** SO
Date Sampled...: 04/22/11 10:10 **Date Received..:** 04/30/11
% Moisture.....: 13

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**86.7**	**10.0**	**%**	**MCAWW 160.3 MOD**	**05/23-05/24/11**	**1143183**

Dilution Factor: 1 MDL.....: 10.0

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

GC/MS Volatiles

Lot-Sample #...: A1E020418-011 **Work Order #...:** MHQK21AG **Matrix.....:** WG
Date Sampled...: 04/29/11 11:00 **Date Received..:** 04/30/11
Prep Date.....: 05/12/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1132384
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

(Continued on next page)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

GC/MS Volatiles

Lot-Sample #...: A1E020418-011 **Work Order #...:** MHQK21AG **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(75 - 121)
1,2-Dichloroethane-d4	99	(63 - 129)
Toluene-d8	90	(74 - 115)
4-Bromofluorobenzene	80	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

GC/MS Semivolatiles

Lot-Sample #...: A1E020418-011 **Work Order #...:** MHQK21AH **Matrix.....:** WG
Date Sampled...: 04/29/11 11:00 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1123030
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	0.20	ug/L	0.10
Acenaphthylene	ND	0.20	ug/L	0.10
Anthracene	ND	0.20	ug/L	0.10
Benzo(a)anthracene	ND	0.20	ug/L	0.10
Benzo(a)pyrene	ND	0.20	ug/L	0.10
Benzo(b)fluoranthene	ND	0.20	ug/L	0.10
Benzo(ghi)perylene	ND	0.20	ug/L	0.10
Benzo(k)fluoranthene	ND	0.20	ug/L	0.10
Chrysene	ND	0.20	ug/L	0.10
Dibenz(a,h)anthracene	ND	0.20	ug/L	0.10
Fluoranthene	ND	0.20	ug/L	0.10
Fluorene	ND	0.20	ug/L	0.10
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	0.10
1-Methylnaphthalene	ND	0.20	ug/L	0.10
2-Methylnaphthalene	ND	0.20	ug/L	0.10
Naphthalene	ND	0.20	ug/L	0.10
Phenanthrene	ND	0.20	ug/L	0.10
Pyrene	ND	0.20	ug/L	0.10

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	48	(27 - 111)
2-Fluorobiphenyl	49	(28 - 110)
Terphenyl-d14	46	(37 - 119)
Phenol-d5	16	(10 - 110)
2-Fluorophenol	30	(10 - 110)
2,4,6-Tribromophenol	44	(22 - 120)

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

GC Volatiles

Lot-Sample #...: A1E020418-011 **Work Order #...:** MHQK21AE **Matrix.....:** WG
Date Sampled...: 04/29/11 11:00 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/06/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**25 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	80	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

GC Semivolatiles

Lot-Sample #...: A1E020418-011 **Work Order #...:** MHQK21AF **Matrix.....:** WG
Date Sampled...: 04/29/11 11:00 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1 **Method.....:** SW846 8015B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
C20-C34	**500**	**500**	**ug/L**	**240**
C10-C20	**260 J**	**500**	**ug/L**	**240**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	63	(10 - 110)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: MW 2-2

DISSOLVED Metals

Lot-Sample #...: A1E020418-011 **Matrix.....:** WG
Date Sampled...: 04/29/11 11:00 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**7.9 B**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQK21AC**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**142 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQK21AJ**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK21AK
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK21AD
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK21AL
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK21AM
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK21AA
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHQK21AN
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #...: A1E020418-012 **Work Order #...:** MHQK41AC **Matrix.....:** WG
Date Sampled...: 04/28/11 **Date Received..:** 04/30/11
Prep Date.....: 05/12/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1132384
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.1
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: DUPLICATE

GC/MS Volatiles

Lot-Sample #...: A1E020418-012 **Work Order #...:** MHQK41AC **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(75 - 121)
1,2-Dichloroethane-d4	105	(63 - 129)
Toluene-d8	94	(74 - 115)
4-Bromofluorobenzene	85	(66 - 117)

Ohio Environmental Protection Agency

Client Sample ID: DUPLICATE

GC Volatiles

Lot-Sample #...: A1E020418-012 **Work Order #...:** MHQK41AA **Matrix.....:** WG
Date Sampled...: 04/28/11 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/06/11
Prep Batch #...: 1126074
Dilution Factor: 1 **Method.....:** SW846 8015A MOD

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Gasoline Range Organics (C6-C12)	**26 J**	**100**	**ug/L**	**25**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	82	(10 - 150)

NOTE(S):

J Estimated result. Result is less than RL.

Ohio Environmental Protection Agency

Client Sample ID: DUPLICATE

DISSOLVED Metals

Lot-Sample #...: A1E020418-012 **Matrix.....:** WG
Date Sampled...: 04/28/11 **Date Received..:** 04/30/11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 1123015						
Arsenic	**12.7**	**10.0**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQK41AH**
		Dilution Factor: 1		MDL.....: 3.2		
Barium	**138 B,J**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHQK41AD**
		Dilution Factor: 1		MDL.....: 0.67		
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK41AE
		Dilution Factor: 1		MDL.....: 0.66		
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK41AJ
		Dilution Factor: 1		MDL.....: 1.9		
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK41AF
		Dilution Factor: 1		MDL.....: 2.2		
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK41AK
		Dilution Factor: 1		MDL.....: 4.1		
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHQK41AG
		Dilution Factor: 1		MDL.....: 2.2		
Mercury	**0.19 B**	**0.20**	**ug/L**	**SW846 7470A**	**05/03-05/10/11**	**MHQK41AL**
		Dilution Factor: 1		MDL.....: 0.12		

NOTE(S):

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1E020418-013 **Work Order #...:** MHQLJ1AA **Matrix.....:** WQ
Date Sampled...: 04/28/11 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.1 J**	**10**	**ug/L**	**1.1**
Benzene	ND	1.0	ug/L	0.13
Bromodichloromethane	ND	1.0	ug/L	0.15
Bromoform	ND	1.0	ug/L	0.64
Bromomethane	ND	2.0	ug/L	0.41
2-Butanone	ND	10	ug/L	0.57
Carbon disulfide	ND	1.0	ug/L	0.13
Carbon tetrachloride	ND	1.0	ug/L	0.13
Chlorobenzene	ND	1.0	ug/L	0.15
Dibromochloromethane	ND	1.0	ug/L	0.18
Chloroethane	ND	2.0	ug/L	0.29
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	2.0	ug/L	0.30
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.67
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.13
1,3-Dichlorobenzene	ND	1.0	ug/L	0.14
1,4-Dichlorobenzene	ND	1.0	ug/L	0.13
Dichlorodifluoromethane	ND	2.0	ug/L	0.31
1,1-Dichloroethane	ND	1.0	ug/L	0.15
1,2-Dichloroethane	ND	1.0	ug/L	0.22
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.17
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.19
1,1-Dichloroethene	ND	1.0	ug/L	0.19
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.14
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.19
Ethylbenzene	ND	1.0	ug/L	0.17
n-Hexane	ND	1.0	ug/L	0.26
2-Hexanone	ND	10	ug/L	0.41
Isopropylbenzene	ND	1.0	ug/L	0.13
Methylene chloride	ND	1.0	ug/L	0.33
4-Methyl-2-pentanone	ND	10	ug/L	0.32
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	0.17
Styrene	ND	1.0	ug/L	0.11
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.18
Tetrachloroethene	ND	1.0	ug/L	0.29

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Ohio Environmental Protection Agency

Client Sample ID: TRIP BLANK

GC/MS Volatiles

Lot-Sample #...: A1E020418-013 **Work Order #...:** MHQLJ1AA **Matrix.....:** WQ

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Toluene	ND	1.0	ug/L	0.13
1,2,4-Trichloro-benzene	**0.23 J,B**	**1.0**	**ug/L**	**0.15**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.22
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.17
Trichlorofluoromethane	ND	2.0	ug/L	0.21
Vinyl chloride	ND	2.0	ug/L	0.22
Xylenes (total)	ND	2.0	ug/L	0.28

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	96	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	75	(66 - 117)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

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QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH9X81AA **Matrix.....:** WATER
MB Lot-Sample #: A1E120000-061

Prep Date.....: 05/11/11
Analysis Date..: 05/11/11 **Prep Batch #...:** 1132061
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**0.34 J**	**1.0**	**ug/L**	**SW846 8260B**
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	**0.20 J**	**1.0**	**ug/L**	**SW846 8260B**

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH9X81AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(75 - 121)
1,2-Dichloroethane-d4	96	(63 - 129)
Toluene-d8	92	(74 - 115)
4-Bromofluorobenzene	78	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJA4A1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E120000-282

Prep Date.....: 05/11/11
Analysis Date..: 05/11/11 **Prep Batch #...:** 1132282
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJA4A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(75 - 121)
1,2-Dichloroethane-d4	100	(63 - 129)
Toluene-d8	95	(74 - 115)
4-Bromofluorobenzene	83	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJC4J1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E120000-384

Prep Date.....: 05/12/11
Analysis Date..: 05/12/11 **Prep Batch #...:** 1132384
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
n-Hexane	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJC4J1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	2.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(75 - 121)
1,2-Dichloroethane-d4	96	(63 - 129)
Toluene-d8	88	(74 - 115)
4-Bromofluorobenzene	78	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVG1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E030000-029

Prep Date.....: 05/03/11
Analysis Date..: 05/10/11 **Prep Batch #...:** 1123029
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	73	(27 - 111)
2-Fluorobiphenyl	73	(28 - 110)
Terphenyl-d14	88	(37 - 119)
Phenol-d5	50	(10 - 110)
2-Fluorophenol	67	(10 - 110)
2,4,6-Tribromophenol	78	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVH1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E030000-030

Prep Date.....: 05/03/11
Analysis Date..: 05/12/11 **Prep Batch #...:** 1123030
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	0.20	ug/L	SW846 8270C
Acenaphthylene	ND	0.20	ug/L	SW846 8270C
Anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	0.20	ug/L	SW846 8270C
Benzo(a)pyrene	ND	0.20	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	0.20	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	0.20	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	0.20	ug/L	SW846 8270C
Chrysene	ND	0.20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	0.20	ug/L	SW846 8270C
Fluoranthene	ND	0.20	ug/L	SW846 8270C
Fluorene	ND	0.20	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	0.20	ug/L	SW846 8270C
1-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
2-Methylnaphthalene	ND	0.20	ug/L	SW846 8270C
Naphthalene	ND	0.20	ug/L	SW846 8270C
Phenanthrene	ND	0.20	ug/L	SW846 8270C
Pyrene	ND	0.20	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	43	(27 - 111)
2-Fluorobiphenyl	40	(28 - 110)
Terphenyl-d14	59	(37 - 119)
Phenol-d5	25	(10 - 110)
2-Fluorophenol	42	(10 - 110)
2,4,6-Tribromophenol	36	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH10J1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E060000-074
Prep Date.....: 05/05/11
Analysis Date..: 05/05/11 **Prep Batch #...:** 1126074
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Gasoline Range Organics (C6-C12)	ND	100	ug/L	SW846 8015A MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	81	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHR9J1AA **Matrix.....:** WATER
MB Lot-Sample #: A1E030000-250
Prep Date.....: 05/03/11
Analysis Date..: 05/04/11 **Prep Batch #...:** 1123250
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
C20-C34	ND	500	ug/L	SW846 8015B
C10-C20	ND	500	ug/L	SW846 8015B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	68	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A1E020418 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1E030000-019 **Prep Batch #...:** 1123019						
Arsenic	ND	1.0	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AU
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AV
		Dilution Factor: 1				
Barium	**0.072 B**	**20.0**	**mg/kg**	**SW846 6010B**	**05/03-05/05/11**	**MHRT01AE**
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AW
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AF
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AG
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	05/03-05/05/11	MHRT01AH
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	05/03/11	MHRT01AJ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #...: A1E020418 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A1E030000-015 **Prep Batch #...:** 1123015						
Arsenic	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AF
		Dilution Factor: 1				
Barium	**1.1 B**	**200**	**ug/L**	**SW846 6010B**	**05/03-05/05/11**	**MHRTN1AA**
		Dilution Factor: 1				
Cadmium	ND	4.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AC
		Dilution Factor: 1				
Lead	ND	3.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AG
		Dilution Factor: 1				
Chromium	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AD
		Dilution Factor: 1				
Selenium	ND	5.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AH
		Dilution Factor: 1				
Silver	ND	10.0	ug/L	SW846 6010B	05/03-05/05/11	MHRTN1AE
		Dilution Factor: 1				
Mercury	ND	0.20	ug/L	SW846 7470A	05/03-05/10/11	MHRTN1AJ
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A1E020418 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: MJN391AA		MB Lot-Sample #:	A1E230000-183	
	ND	10.0	%	MCAWW 160.3 MOD	05/23-05/24/11	1143183
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH9X81AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-061
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	94	(43 - 136)	SW846 8260B
Benzene	**96**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	96	(82 - 114)	SW846 8260B
Bromodichloromethane	**95**	**(72 - 121)**	**SW846 8260B**
Bromoform	80	(40 - 131)	SW846 8260B
Bromomethane	84	(11 - 185)	SW846 8260B
2-Butanone	**82**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**104**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**103**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**93**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**82**	**(64 - 119)**	**SW846 8260B**
Chloroethane	105	(25 - 153)	SW846 8260B
Chloroform	**97**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	111	(74 - 151)	SW846 8260B
Methyl acetate	88	(58 - 131)	SW846 8260B
Chloromethane	94	(44 - 126)	SW846 8260B
Cyclohexane	105	(54 - 121)	SW846 8260B
Methylcyclohexane	110	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**77**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**93**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**93**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**90**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**91**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**96**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	89	(52 - 131)	SW846 8260B
Acetonitrile	95	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**88**	**(82 - 110)**	**SW846 8260B**
Acrolein	88	(51 - 170)	SW846 8260B
Vinyl acetate	104	(46 - 161)	SW846 8260B
Acrylonitrile	89	(66 - 132)	SW846 8260B
Bromobenzene	**91**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH9X81AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-061

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	96	(19 - 129)	SW846 8260B
Bromochloromethane	**98**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**99**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**95**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**96**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**93**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**92**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**93**	**(77 - 115)**	**SW846 8260B**
Dibromomethane	**101**	**(81 - 120)**	**SW846 8260B**
1,2-Dichloroethane	**96**	**(71 - 127)**	**SW846 8260B**
1,3-Dichloropropane	**94**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	90	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**97**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**96**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	81	(36 - 134)	SW846 8260B
Iodomethane	110	(72 - 141)	SW846 8260B
Isopropyl ether	94	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**95**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**101**	**(74 - 120)**	**SW846 8260B**
Naphthalene	78	(32 - 141)	SW846 8260B
n-Propylbenzene	**96**	**(74 - 121)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**91**	**(72 - 116)**	**SW846 8260B**
1,1-Dichloroethene	**104**	**(78 - 131)**	**SW846 8260B**
1,2,3-Trichlorobenzene	79	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**89**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**97**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**98**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**96**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**81**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**84**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**96**	**(83 - 112)**	**SW846 8260B**
n-Hexane	109	(66 - 137)	SW846 8260B
2-Hexanone	**82**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**86**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**89**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**88**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (	**90**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH9X81AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-061

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**86**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**84**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**95**	**(79 - 114)**	**SW846 8260B**
Toluene	**96**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	84	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**99**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**93**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**97**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	147	(49 - 157)	SW846 8260B
Vinyl chloride	**97**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**94**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(75 - 121)
1,2-Dichloroethane-d4	95	(63 - 129)
Toluene-d8	96	(74 - 115)
4-Bromofluorobenzene	93	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJA4A1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-282
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	81	(43 - 136)	SW846 8260B
Benzene	**96**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	99	(82 - 114)	SW846 8260B
Bromodichloromethane	**97**	**(72 - 121)**	**SW846 8260B**
Bromoform	108	(40 - 131)	SW846 8260B
Bromomethane	76	(11 - 185)	SW846 8260B
2-Butanone	**84**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**98**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**100**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**102**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**106**	**(64 - 119)**	**SW846 8260B**
Chloroethane	71	(25 - 153)	SW846 8260B
Chloroform	**95**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	110	(74 - 151)	SW846 8260B
Methyl acetate	81	(58 - 131)	SW846 8260B
Chloromethane	81	(44 - 126)	SW846 8260B
Cyclohexane	88	(54 - 121)	SW846 8260B
Methylcyclohexane	87	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**93**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**103**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**104**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**102**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**105**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**100**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	88	(52 - 131)	SW846 8260B
Acetonitrile	83	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**101**	**(82 - 110)**	**SW846 8260B**
Acrolein	103	(51 - 170)	SW846 8260B
Vinyl acetate	118	(46 - 161)	SW846 8260B
Acrylonitrile	91	(66 - 132)	SW846 8260B
Bromobenzene	**107**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJA4A1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-282

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	67	(19 - 129)	SW846 8260B
Bromochloromethane	**95**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**89**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**92**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**90**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**94**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**104**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**104**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**94**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**100**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**100**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	89	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**99**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**97**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	95	(36 - 134)	SW846 8260B
Iodomethane	108	(72 - 141)	SW846 8260B
Isopropyl ether	82	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**100**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**98**	**(74 - 120)**	**SW846 8260B**
Naphthalene	75	(32 - 141)	SW846 8260B
n-Propylbenzene	**102**	**(74 - 121)**	**SW846 8260B**
1,1-Dichloroethene	**103**	**(78 - 131)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**101**	**(72 - 116)**	**SW846 8260B**
1,2,3-Trichlorobenzene	97	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**98**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**97**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**92**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**96**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**87**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**95**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**109**	**(83 - 112)**	**SW846 8260B**
n-Hexane	98	(66 - 137)	SW846 8260B
2-Hexanone	**91**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**98**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**98**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**95**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**78**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJA4A1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-282

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**99**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**96**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**105**	**(79 - 114)**	**SW846 8260B**
Toluene	**106**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	82	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**91**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**99**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**100**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	97	(49 - 157)	SW846 8260B
Vinyl chloride	**83**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**101**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
Toluene-d8	109	(74 - 115)
4-Bromofluorobenzene	113	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJC4J1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-384
Prep Date.....: 05/12/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1132384
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	94	(43 - 136)	SW846 8260B
Benzene	**91**	**(83 - 112)**	**SW846 8260B**
1,2-Dichloroethene (total)	92	(82 - 114)	SW846 8260B
Bromodichloromethane	**93**	**(72 - 121)**	**SW846 8260B**
Bromoform	105	(40 - 131)	SW846 8260B
Bromomethane	57	(11 - 185)	SW846 8260B
2-Butanone	**84**	**(60 - 126)**	**SW846 8260B**
Carbon disulfide	**90**	**(62 - 142)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(66 - 128)**	**SW846 8260B**
Chlorobenzene	**99**	**(85 - 110)**	**SW846 8260B**
Dibromochloromethane	**103**	**(64 - 119)**	**SW846 8260B**
Chloroethane	51	(25 - 153)	SW846 8260B
Chloroform	**90**	**(79 - 117)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	108	(74 - 151)	SW846 8260B
Methyl acetate	84	(58 - 131)	SW846 8260B
Chloromethane	73	(44 - 126)	SW846 8260B
Cyclohexane	85	(54 - 121)	SW846 8260B
Methylcyclohexane	85	(56 - 127)	SW846 8260B
1,2-Dibromo-3-chloro-propane	**89**	**(42 - 136)**	**SW846 8260B**
1,2-Dibromoethane	**98**	**(79 - 113)**	**SW846 8260B**
1,2-Dichlorobenzene	**100**	**(81 - 110)**	**SW846 8260B**
o-Xylene	**96**	**(83 - 113)**	**SW846 8260B**
1,3-Dichlorobenzene	**99**	**(80 - 110)**	**SW846 8260B**
m-Xylene & p-Xylene	**97**	**(83 - 113)**	**SW846 8260B**
2-Chloroethyl vinyl ether	84	(52 - 131)	SW846 8260B
Acetonitrile	77	(15 - 184)	SW846 8260B
1,4-Dichlorobenzene	**96**	**(82 - 110)**	**SW846 8260B**
Acrolein	94	(51 - 170)	SW846 8260B
Vinyl acetate	112	(46 - 161)	SW846 8260B
Acrylonitrile	87	(66 - 132)	SW846 8260B
Bromobenzene	**102**	**(76 - 115)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJC4J1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-384

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Dichlorodifluoromethane	61	(19 - 129)	SW846 8260B
Bromochloromethane	**91**	**(77 - 120)**	**SW846 8260B**
n-Butylbenzene	**85**	**(66 - 125)**	**SW846 8260B**
sec-Butylbenzene	**89**	**(70 - 117)**	**SW846 8260B**
1,1-Dichloroethane	**85**	**(82 - 115)**	**SW846 8260B**
tert-Butylbenzene	**90**	**(71 - 115)**	**SW846 8260B**
2-Chlorotoluene	**100**	**(76 - 116)**	**SW846 8260B**
4-Chlorotoluene	**101**	**(77 - 115)**	**SW846 8260B**
1,2-Dichloroethane	**91**	**(71 - 127)**	**SW846 8260B**
Dibromomethane	**93**	**(81 - 120)**	**SW846 8260B**
1,3-Dichloropropane	**97**	**(79 - 116)**	**SW846 8260B**
2,2-Dichloropropane	81	(50 - 129)	SW846 8260B
1,1-Dichloropropene	**95**	**(83 - 114)**	**SW846 8260B**
cis-1,2-Dichloroethene	**92**	**(80 - 113)**	**SW846 8260B**
Hexachlorobutadiene	90	(36 - 134)	SW846 8260B
Iodomethane	98	(72 - 141)	SW846 8260B
Isopropyl ether	77	(77 - 118)	SW846 8260B
trans-1,2-Dichloroethene	**93**	**(83 - 117)**	**SW846 8260B**
p-Isopropyltoluene	**94**	**(74 - 120)**	**SW846 8260B**
Naphthalene	72	(32 - 141)	SW846 8260B
n-Propylbenzene	**98**	**(74 - 121)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**97**	**(72 - 116)**	**SW846 8260B**
1,1-Dichloroethene	**97**	**(78 - 131)**	**SW846 8260B**
1,2,3-Trichlorobenzene	88	(54 - 126)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(73 - 129)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**93**	**(76 - 120)**	**SW846 8260B**
1,2-Dichloropropane	**86**	**(81 - 115)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**93**	**(72 - 118)**	**SW846 8260B**
cis-1,3-Dichloropropene	**83**	**(61 - 115)**	**SW846 8260B**
trans-1,3-Dichloropropene	**95**	**(58 - 117)**	**SW846 8260B**
Ethylbenzene	**105**	**(83 - 112)**	**SW846 8260B**
n-Hexane	96	(66 - 137)	SW846 8260B
2-Hexanone	**88**	**(55 - 133)**	**SW846 8260B**
Isopropylbenzene	**95**	**(75 - 114)**	**SW846 8260B**
Methylene chloride	**90**	**(66 - 131)**	**SW846 8260B**
4-Methyl-2-pentanone	**89**	**(63 - 128)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**70**	**(52 - 144)**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MJC4J1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E120000-384

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Styrene	**94**	**(79 - 114)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**92**	**(68 - 118)**	**SW846 8260B**
Tetrachloroethene	**102**	**(79 - 114)**	**SW846 8260B**
Toluene	**101**	**(84 - 111)**	**SW846 8260B**
1,2,4-Trichloro-benzene	80	(48 - 135)	SW846 8260B
1,1,1-Trichloroethane	**85**	**(74 - 118)**	**SW846 8260B**
1,1,2-Trichloroethane	**97**	**(80 - 112)**	**SW846 8260B**
Trichloroethene	**95**	**(76 - 117)**	**SW846 8260B**
Trichlorofluoromethane	89	(49 - 157)	SW846 8260B
Vinyl chloride	**75**	**(53 - 127)**	**SW846 8260B**
Xylenes (total)	**97**	**(83 - 112)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	91	(75 - 121)
1,2-Dichloroethane-d4	93	(63 - 129)
Toluene-d8	107	(74 - 115)
4-Bromofluorobenzene	112	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVG1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-029
Prep Date.....: 05/03/11 **Analysis Date..:** 05/10/11
Prep Batch #...: 1123029
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**79**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**79**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**80**	**(43 - 110)**	**SW846 8270C**
Anthracene	**79**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**77**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**84**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**69**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**74**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**80**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**87**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**80**	**(43 - 124)**	**SW846 8270C**
1,4-Dichlorobenzene	**80**	**(19 - 110)**	**SW846 8270C**
Chrysene	**81**	**(55 - 115)**	**SW846 8270C**
Dibenz(a,h)anthracene	**77**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**79**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**82**	**(54 - 122)**	**SW846 8270C**
Phenol	**49**	**(14 - 112)**	**SW846 8270C**
Fluorene	**79**	**(47 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**78**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**83**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	77	(10 - 130)	SW846 8270C
4-Chloro-3-methylphenol	**82**	**(39 - 110)**	**SW846 8270C**
2-Methylnaphthalene	**90**	**(35 - 110)**	**SW846 8270C**
Naphthalene	**77**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**56**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**79**	**(52 - 114)**	**SW846 8270C**
Pyrene	**80**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**81**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**79**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**80**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	76	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVG1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-029

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**80**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**83**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**84**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**86**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**79**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**82**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**83**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**76**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	64	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**86**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**78**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**78**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**83**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**84**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	63	(19 - 110)	SW846 8270C
3-Nitroaniline	**82**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	81	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**84**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	**62**	**(10 - 110)**	**SW846 8270C**
Butyl benzyl phthalate	**80**	**(53 - 126)**	**SW846 8270C**
Carbazole	**81**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**79**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**83**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**83**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**76**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**81**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**75**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**83**	**(12 - 110)**	**SW846 8270C**
Isophorone	**80**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**80**	**(37 - 115)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVG1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-029

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
N-Nitrosodiphenylamine	**79**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**84**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	78	(10 - 110)	SW846 8270C
Benzoic acid	35	(10 - 129)	SW846 8270C
1,4-Dioxane	47	(10 - 110)	SW846 8270C
Atrazine	103	(50 - 130)	SW846 8270C
Acetophenone	81	(50 - 130)	SW846 8270C
1,1'-Biphenyl	75	(50 - 130)	SW846 8270C
Benzyl alcohol	65	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**52**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	82	(10 - 130)	SW846 8270C
Benzaldehyde	105	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	86	(25 - 128)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	77	(27 - 111)
2-Fluorobiphenyl	74	(28 - 110)
Terphenyl-d14	85	(37 - 119)
Phenol-d5	46	(10 - 110)
2-Fluorophenol	64	(10 - 110)
2,4,6-Tribromophenol	80	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVH1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-030
Prep Date.....: 05/03/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1123030
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**74**	**(40 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**72**	**(25 - 110)**	**SW846 8270C**
Acenaphthylene	**77**	**(43 - 110)**	**SW846 8270C**
Anthracene	**76**	**(54 - 114)**	**SW846 8270C**
Benzo(a)anthracene	**70**	**(55 - 115)**	**SW846 8270C**
2,4-Dinitrotoluene	**81**	**(52 - 123)**	**SW846 8270C**
Benzo(a)pyrene	**68**	**(43 - 116)**	**SW846 8270C**
Benzo(b)fluoranthene	**66**	**(43 - 122)**	**SW846 8270C**
Benzo(ghi)perylene	**81**	**(45 - 120)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**75**	**(37 - 121)**	**SW846 8270C**
Benzo(k)fluoranthene	**87**	**(43 - 124)**	**SW846 8270C**
Chrysene	**75**	**(55 - 115)**	**SW846 8270C**
1,4-Dichlorobenzene	**69**	**(19 - 110)**	**SW846 8270C**
Dibenz(a,h)anthracene	**80**	**(46 - 122)**	**SW846 8270C**
Pentachlorophenol	**65**	**(26 - 110)**	**SW846 8270C**
Fluoranthene	**78**	**(54 - 122)**	**SW846 8270C**
Fluorene	**75**	**(47 - 112)**	**SW846 8270C**
Phenol	**39**	**(14 - 112)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**79**	**(46 - 121)**	**SW846 8270C**
2-Chlorophenol	**72**	**(27 - 110)**	**SW846 8270C**
1-Methylnaphthalene	73	(10 - 130)	SW846 8270C
2-Methylnaphthalene	**85**	**(35 - 110)**	**SW846 8270C**
4-Chloro-3-methylphenol	**68**	**(39 - 110)**	**SW846 8270C**
Naphthalene	**73**	**(31 - 110)**	**SW846 8270C**
4-Nitrophenol	**24**	**(12 - 130)**	**SW846 8270C**
Phenanthrene	**75**	**(52 - 114)**	**SW846 8270C**
Pyrene	**75**	**(55 - 120)**	**SW846 8270C**
1,2-Dichlorobenzene	**71**	**(23 - 110)**	**SW846 8270C**
1,3-Dichlorobenzene	**69**	**(19 - 110)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**72**	**(39 - 110)**	**SW846 8270C**
4-Methylphenol	62	(32 - 110)	SW846 8270C

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVH1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-030

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
4-Nitroaniline	**70**	**(45 - 120)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**74**	**(39 - 110)**	**SW846 8270C**
bis(2-Chloroethyl)-ether	**69**	**(34 - 113)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**74**	**(25 - 128)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**79**	**(36 - 163)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**74**	**(35 - 110)**	**SW846 8270C**
2,4-Dichlorophenol	**71**	**(33 - 110)**	**SW846 8270C**
2,4-Dimethylphenol	**64**	**(12 - 110)**	**SW846 8270C**
2,4-Dinitrophenol	57	(17 - 112)	SW846 8270C
2,6-Dinitrotoluene	**80**	**(52 - 119)**	**SW846 8270C**
2-Chloronaphthalene	**75**	**(39 - 110)**	**SW846 8270C**
2-Methylphenol	**69**	**(30 - 110)**	**SW846 8270C**
2-Nitroaniline	**76**	**(43 - 130)**	**SW846 8270C**
2-Nitrophenol	**75**	**(29 - 110)**	**SW846 8270C**
3,3'-Dichlorobenzidine	53	(19 - 110)	SW846 8270C
3-Nitroaniline	**73**	**(45 - 116)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	76	(28 - 112)	SW846 8270C
4-Bromophenyl phenyl ether	**79**	**(51 - 114)**	**SW846 8270C**
4-Chloroaniline	**28**	**(10 - 110)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	38 a	(50 - 115)	SW846 8270C
Butyl benzyl phthalate	**79**	**(53 - 126)**	**SW846 8270C**
Carbazole	**74**	**(53 - 120)**	**SW846 8270C**
Dibenzofuran	**75**	**(46 - 111)**	**SW846 8270C**
Diethyl phthalate	**78**	**(33 - 134)**	**SW846 8270C**
Dimethyl phthalate	**78**	**(15 - 143)**	**SW846 8270C**
Di-n-octyl phthalate	**81**	**(44 - 128)**	**SW846 8270C**
Hexachlorobenzene	**79**	**(51 - 112)**	**SW846 8270C**
Hexachlorobutadiene	**72**	**(13 - 110)**	**SW846 8270C**
Hexachloroethane	**71**	**(12 - 110)**	**SW846 8270C**

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHRVH1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-030

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Isophorone	**74**	**(44 - 128)**	**SW846 8270C**
Nitrobenzene	**74**	**(37 - 115)**	**SW846 8270C**
N-Nitrosodiphenylamine	**75**	**(53 - 113)**	**SW846 8270C**
Di-n-butyl phthalate	**82**	**(55 - 122)**	**SW846 8270C**
Hexachlorocyclopenta-diene	65	(10 - 110)	SW846 8270C
1,4-Dioxane	38	(10 - 110)	SW846 8270C
Atrazine	104	(50 - 130)	SW846 8270C
Acetophenone	72	(50 - 130)	SW846 8270C
1,1'-Biphenyl	72	(50 - 130)	SW846 8270C
Benzyl alcohol	49	(10 - 130)	SW846 8270C
N-Nitrosodimethylamine	**40**	**(10 - 130)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	74	(10 - 130)	SW846 8270C
Benzaldehyde	92	(10 - 130)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	74	(25 - 128)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(27 - 111)
2-Fluorobiphenyl	73	(28 - 110)
Terphenyl-d14	84	(37 - 119)
Phenol-d5	39	(10 - 110)
2-Fluorophenol	56	(10 - 110)
2,4,6-Tribromophenol	78	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MH10J1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E060000-074
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**116**	**(72 - 140)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	101	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHR9J1AC **Matrix.....:** WATER
LCS Lot-Sample#: A1E030000-250
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
TPH (as Diesel)	**98**	**(41 - 149)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	69	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1E020418 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1E030000-019 **Prep Batch #...:** 1123019					
Arsenic	96	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01AX
Lead	99	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01A0
Barium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01AN
Selenium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01A1
Cadmium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01AP
Chromium	104	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01AQ
Silver	105	(80 - 120)	SW846 6010B Dilution Factor: 1	05/03-05/05/11	MHRT01AR
Mercury	81	(73 - 121)	SW846 7471A Dilution Factor: 1	05/03/11	MHRT01AT

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A1E020418 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A1E030000-015 **Prep Batch #...:** 1123015					
Barium	97	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AK
		Dilution Factor: 1			
Arsenic	96	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AP
		Dilution Factor: 1			
Cadmium	98	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AL
		Dilution Factor: 1			
Lead	97	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AQ
		Dilution Factor: 1			
Chromium	99	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AM
		Dilution Factor: 1			
Selenium	100	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AR
		Dilution Factor: 1			
Silver	102	(80 - 120)	SW846 6010B	05/03-05/05/11	MHRTN1AN
		Dilution Factor: 1			
Mercury	114	(81 - 123)	SW846 7470A	05/03-05/10/11	MHRTN1AT
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AJ-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AK-MSD
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132061
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	82	(33 - 145)			SW846 8260B
	83	(33 - 145)	1.2	(0-30)	SW846 8260B
Benzene	**98**	**(72 - 121)**			**SW846 8260B**
	95	**(72 - 121)**	**2.8**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**99**	**(67 - 120)**			**SW846 8260B**
	94	**(67 - 120)**	**5.7**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	96	(75 - 119)			SW846 8260B
	92	(75 - 119)	4.3	(0-30)	SW846 8260B
Bromoform	82	(32 - 128)			SW846 8260B
	82	(32 - 128)	0.08	(0-30)	SW846 8260B
Bromomethane	90	(10 - 186)			SW846 8260B
	87	(10 - 186)	3.3	(0-30)	SW846 8260B
2-Butanone	**79**	**(54 - 129)**			**SW846 8260B**
	78	**(54 - 129)**	**1.9**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**101**	**(57 - 147)**			**SW846 8260B**
	96	**(57 - 147)**	**4.6**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**105**	**(59 - 129)**			**SW846 8260B**
	102	**(59 - 129)**	**2.7**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**98**	**(80 - 110)**			**SW846 8260B**
	98	**(80 - 110)**	**0.55**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**84**	**(56 - 118)**			**SW846 8260B**
	86	**(56 - 118)**	**2.3**	**(0-30)**	**SW846 8260B**
Chloroethane	100	(21 - 165)			SW846 8260B
	96	(21 - 165)	3.7	(0-30)	SW846 8260B
Chloroform	**98**	**(76 - 118)**			**SW846 8260B**
	92	**(76 - 118)**	**6.0**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	103	(70 - 152)			SW846 8260B
	96	(70 - 152)	7.3	(0-30)	SW846 8260B
Methyl acetate	81	(47 - 130)			SW846 8260B
	81	(47 - 130)	0.91	(0-30)	SW846 8260B
Chloromethane	80	(33 - 132)			SW846 8260B
	76	(33 - 132)	6.2	(0-30)	SW846 8260B
Cyclohexane	97	(49 - 123)			SW846 8260B
	93	(49 - 123)	4.6	(0-30)	SW846 8260B
Methylcyclohexane	97	(49 - 127)			SW846 8260B
	93	(49 - 127)	3.8	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AJ-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**79**	**(32 - 139)**			**SW846 8260B**
	83	**(32 - 139)**	**5.3**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**95**	**(74 - 113)**			**SW846 8260B**
	94	**(74 - 113)**	**1.5**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**97**	**(75 - 111)**			**SW846 8260B**
	96	**(75 - 111)**	**1.5**	**(0-30)**	**SW846 8260B**
o-Xylene	**92**	**(76 - 116)**			**SW846 8260B**
	91	**(76 - 116)**	**1.2**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**95**	**(73 - 110)**			**SW846 8260B**
	94	**(73 - 110)**	**1.4**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**99**	**(75 - 117)**			**SW846 8260B**
	97	**(75 - 117)**	**2.2**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	71	(12 - 182)			SW846 8260B
	73	(12 - 182)	3.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**93**	**(75 - 110)**			**SW846 8260B**
	91	**(75 - 110)**	**2.0**	**(0-30)**	**SW846 8260B**
Acrolein	82	(47 - 168)			SW846 8260B
	84	(47 - 168)	1.6	(0-30)	SW846 8260B
Acrylonitrile	88	(62 - 133)			SW846 8260B
	83	(62 - 133)	5.9	(0-30)	SW846 8260B
Vinyl acetate	104	(43 - 157)			SW846 8260B
	96	(43 - 157)	8.7	(0-30)	SW846 8260B
Bromobenzene	**99**	**(71 - 116)**			**SW846 8260B**
	98	**(71 - 116)**	**0.98**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	70	(17 - 128)			SW846 8260B
	66	(17 - 128)	6.0	(0-30)	SW846 8260B
Bromochloromethane	**94**	**(73 - 121)**			**SW846 8260B**
	93	**(73 - 121)**	**1.0**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**100**	**(56 - 127)**			**SW846 8260B**
	100	**(56 - 127)**	**0.20**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**99**	**(60 - 119)**			**SW846 8260B**
	97	**(60 - 119)**	**1.8**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**88**	**(79 - 116)**			**SW846 8260B**
	81	**(79 - 116)**	**3.1**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**98**	**(61 - 119)**			**SW846 8260B**
	97	**(61 - 119)**	**1.5**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**101**	**(69 - 117)**			**SW846 8260B**
	104	**(69 - 117)**	**2.5**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AJ-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**101**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**2.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**99**	**(68 - 129)**			**SW846 8260B**
	96	**(68 - 129)**	**4.0**	**(0-30)**	**SW846 8260B**
Dibromomethane	**101**	**(77 - 121)**			**SW846 8260B**
	97	**(77 - 121)**	**3.3**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**98**	**(74 - 118)**			**SW846 8260B**
	98	**(74 - 118)**	**0.07**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	89	(38 - 127)			SW846 8260B
	90	(38 - 127)	1.1	(0-30)	SW846 8260B
1,1-Dichloropropene	**98**	**(80 - 114)**			**SW846 8260B**
	95	**(80 - 114)**	**3.6**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**98**	**(70 - 120)**			**SW846 8260B**
	93	**(70 - 120)**	**5.1**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	82	(27 - 132)			SW846 8260B
	82	(27 - 132)	0.60	(0-30)	SW846 8260B
Iodomethane	113	(66 - 144)			SW846 8260B
	105	(66 - 144)	7.4	(0-30)	SW846 8260B
Isopropyl ether	98	(73 - 118)			SW846 8260B
	92	(73 - 118)	5.7	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**93**	**(80 - 119)**			**SW846 8260B**
	90	**(80 - 119)**	**3.4**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**103**	**(64 - 122)**			**SW846 8260B**
	103	**(64 - 122)**	**0.31**	**(0-30)**	**SW846 8260B**
Naphthalene	88	(15 - 158)			SW846 8260B
	92	(15 - 158)	3.5	(0-30)	SW846 8260B
n-Propylbenzene	**103**	**(64 - 124)**			**SW846 8260B**
	101	**(64 - 124)**	**1.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**99**	**(74 - 135)**			**SW846 8260B**
	95	**(74 - 135)**	**4.1**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**95**	**(64 - 118)**			**SW846 8260B**
	97	**(64 - 118)**	**2.3**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	83	(45 - 129)			SW846 8260B
	87	(45 - 129)	4.3	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(67 - 132)**			**SW846 8260B**
	98	**(67 - 132)**	**2.4**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**103**	**(67 - 124)**			**SW846 8260B**
	101	**(67 - 124)**	**2.0**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**104**	**(78 - 115)**			**SW846 8260B**
	95	**(78 - 115)**	**8.3**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**102**	**(63 - 121)**			**SW846 8260B**
	100	**(63 - 121)**	**1.6**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AJ-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**80**	**(51 - 110)**			**SW846 8260B**
	82	**(51 - 110)**	**3.2**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**87**	**(46 - 116)**			**SW846 8260B**
	88	**(46 - 116)**	**1.2**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**99**	**(75 - 116)**			**SW846 8260B**
	100	**(75 - 116)**	**0.92**	**(0-30)**	**SW846 8260B**
n-Hexane	84	(54 - 138)			SW846 8260B
	80	(54 - 138)	5.9	(0-30)	SW846 8260B
2-Hexanone	**87**	**(47 - 139)**			**SW846 8260B**
	88	**(47 - 139)**	**1.6**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**86**	**(68 - 116)**			**SW846 8260B**
	86	**(68 - 116)**	**0.04**	**(0-30)**	**SW846 8260B**
Methylene chloride	**87**	**(63 - 128)**			**SW846 8260B**
	84	**(63 - 128)**	**3.4**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**95**	**(56 - 131)**			**SW846 8260B**
	91	**(56 - 131)**	**3.9**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**89**	**(46 - 144)**			**SW846 8260B**
	86	**(46 - 144)**	**2.8**	**(0-30)**	**SW846 8260B**
Styrene	**88**	**(71 - 117)**			**SW846 8260B**
	87	**(71 - 117)**	**1.7**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**96**	**(63 - 122)**			**SW846 8260B**
	94	**(63 - 122)**	**2.3**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**99**	**(70 - 117)**			**SW846 8260B**
	98	**(70 - 117)**	**1.0**	**(0-30)**	**SW846 8260B**
Toluene	**102**	**(78 - 114)**			**SW846 8260B**
	101	**(78 - 114)**	**1.2**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	88	(38 - 138)			SW846 8260B
	89	(38 - 138)	1.3	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**74**	**(68 - 121)**			**SW846 8260B**
	69	**(68 - 121)**	**1.2**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**98**	**(75 - 115)**			**SW846 8260B**
	96	**(75 - 115)**	**2.3**	**(0-30)**	**SW846 8260B**
Trichloroethene	**97**	**(66 - 120)**			**SW846 8260B**
	96	**(66 - 120)**	**1.1**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	144	(46 - 157)			SW846 8260B
	136	(46 - 157)	5.8	(0-30)	SW846 8260B
Vinyl chloride	**81**	**(49 - 130)**			**SW846 8260B**
	79	**(49 - 130)**	**1.9**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AJ-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AK-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**97**	**(76 - 116)**			**SW846 8260B**
	95	**(76 - 116)**	**1.8**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	90	(75 - 121)
	89	(75 - 121)
1,2-Dichloroethane-d4	94	(63 - 129)
	88	(63 - 129)
Toluene-d8	99	(74 - 115)
	100	(74 - 115)
4-Bromofluorobenzene	89	(66 - 117)
	91	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNHJ1CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290425-004 MHNHJ1CD-MSD
Date Sampled...: 04/28/11 10:30 **Date Received..:** 04/29/11
Prep Date.....: 05/11/11 **Analysis Date..:** 05/11/11
Prep Batch #...: 1132282
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	78	(33 - 145)			SW846 8260B
	79	(33 - 145)	0.73	(0-30)	SW846 8260B
Benzene	**91**	**(72 - 121)**			**SW846 8260B**
	94	**(72 - 121)**	**3.2**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**92**	**(67 - 120)**			**SW846 8260B**
	94	**(67 - 120)**	**2.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	93	(75 - 119)			SW846 8260B
	96	(75 - 119)	2.7	(0-30)	SW846 8260B
Bromoform	106	(32 - 128)			SW846 8260B
	108	(32 - 128)	1.8	(0-30)	SW846 8260B
Bromomethane	58	(10 - 186)			SW846 8260B
	67	(10 - 186)	15	(0-30)	SW846 8260B
2-Butanone	**78**	**(54 - 129)**			**SW846 8260B**
	83	**(54 - 129)**	**5.6**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**95**	**(57 - 147)**			**SW846 8260B**
	94	**(57 - 147)**	**0.56**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**102**	**(59 - 129)**			**SW846 8260B**
	102	**(59 - 129)**	**0.24**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**98**	**(80 - 110)**			**SW846 8260B**
	98	**(80 - 110)**	**0.66**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**103**	**(56 - 118)**			**SW846 8260B**
	102	**(56 - 118)**	**1.8**	**(0-30)**	**SW846 8260B**
Chloroethane	61	(21 - 165)			SW846 8260B
	70	(21 - 165)	14	(0-30)	SW846 8260B
Chloroform	**91**	**(76 - 118)**			**SW846 8260B**
	93	**(76 - 118)**	**2.6**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	128	(70 - 152)			SW846 8260B
	102	(70 - 152)	22	(0-30)	SW846 8260B
Methyl acetate	74	(47 - 130)			SW846 8260B
	79	(47 - 130)	5.9	(0-30)	SW846 8260B
Chloromethane	75	(33 - 132)			SW846 8260B
	79	(33 - 132)	5.4	(0-30)	SW846 8260B
Cyclohexane	97	(49 - 123)			SW846 8260B
	84	(49 - 123)	15	(0-30)	SW846 8260B
Methylcyclohexane	103	(49 - 127)			SW846 8260B
	80	(49 - 127)	26	(0-30)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNHJ1CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290425-004 MHNHJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**92**	**(32 - 139)**			**SW846 8260B**
	104	**(32 - 139)**	**12**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**100**	**(74 - 113)**			**SW846 8260B**
	101	**(74 - 113)**	**0.51**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**97**	**(75 - 111)**			**SW846 8260B**
	99	**(75 - 111)**	**2.8**	**(0-30)**	**SW846 8260B**
o-Xylene	**95**	**(76 - 116)**			**SW846 8260B**
	97	**(76 - 116)**	**2.2**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**95**	**(73 - 110)**			**SW846 8260B**
	98	**(73 - 110)**	**2.6**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**95**	**(75 - 117)**			**SW846 8260B**
	96	**(75 - 117)**	**1.2**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	79	(12 - 182)			SW846 8260B
	83	(12 - 182)	5.0	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**92**	**(75 - 110)**			**SW846 8260B**
	96	**(75 - 110)**	**4.1**	**(0-30)**	**SW846 8260B**
Acrolein	97	(47 - 168)			SW846 8260B
	97	(47 - 168)	0.29	(0-30)	SW846 8260B
Acrylonitrile	90	(62 - 133)			SW846 8260B
	93	(62 - 133)	3.6	(0-30)	SW846 8260B
Vinyl acetate	91	(43 - 157)			SW846 8260B
	98	(43 - 157)	7.4	(0-30)	SW846 8260B
Bromobenzene	**98**	**(71 - 116)**			**SW846 8260B**
	101	**(71 - 116)**	**2.8**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	82	(17 - 128)			SW846 8260B
	63	(17 - 128)	27	(0-30)	SW846 8260B
Bromochloromethane	**91**	**(73 - 121)**			**SW846 8260B**
	94	**(73 - 121)**	**3.2**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**79**	**(56 - 127)**			**SW846 8260B**
	83	**(56 - 127)**	**4.7**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**86**	**(60 - 119)**			**SW846 8260B**
	88	**(60 - 119)**	**2.2**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**85**	**(79 - 116)**			**SW846 8260B**
	87	**(79 - 116)**	**3.0**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**87**	**(61 - 119)**			**SW846 8260B**
	90	**(61 - 119)**	**3.3**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**97**	**(69 - 117)**			**SW846 8260B**
	100	**(69 - 117)**	**3.1**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNHJ1CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290425-004 MHNHJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**97**	**(71 - 116)**			**SW846 8260B**
	98	**(71 - 116)**	**1.6**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**89**	**(68 - 129)**			**SW846 8260B**
	91	**(68 - 129)**	**2.8**	**(0-30)**	**SW846 8260B**
Dibromomethane	**94**	**(77 - 121)**			**SW846 8260B**
	96	**(77 - 121)**	**2.3**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**97**	**(74 - 118)**			**SW846 8260B**
	97	**(74 - 118)**	**0.21**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	76	(38 - 127)			SW846 8260B
	78	(38 - 127)	2.0	(0-30)	SW846 8260B
1,1-Dichloropropene	**97**	**(80 - 114)**			**SW846 8260B**
	97	**(80 - 114)**	**0.40**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**93**	**(70 - 120)**			**SW846 8260B**
	95	**(70 - 120)**	**2.5**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	83	(27 - 132)			SW846 8260B
	90	(27 - 132)	7.6	(0-30)	SW846 8260B
Iodomethane	99	(66 - 144)			SW846 8260B
	101	(66 - 144)	2.1	(0-30)	SW846 8260B
Isopropyl ether	75	(73 - 118)			SW846 8260B
	78	(73 - 118)	4.3	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**94**	**(80 - 119)**			**SW846 8260B**
	96	**(80 - 119)**	**2.9**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**89**	**(64 - 122)**			**SW846 8260B**
	91	**(64 - 122)**	**2.5**	**(0-30)**	**SW846 8260B**
Naphthalene	73	(15 - 158)			SW846 8260B
	84	(15 - 158)	14	(0-30)	SW846 8260B
n-Propylbenzene	**93**	**(64 - 124)**			**SW846 8260B**
	96	**(64 - 124)**	**2.3**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**102**	**(74 - 135)**			**SW846 8260B**
	101	**(74 - 135)**	**0.36**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**97**	**(64 - 118)**			**SW846 8260B**
	96	**(64 - 118)**	**1.1**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	88	(45 - 129)			SW846 8260B
	103	(45 - 129)	16	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**98**	**(67 - 132)**			**SW846 8260B**
	96	**(67 - 132)**	**1.9**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**90**	**(67 - 124)**			**SW846 8260B**
	93	**(67 - 124)**	**3.5**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**85**	**(78 - 115)**			**SW846 8260B**
	88	**(78 - 115)**	**3.8**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**88**	**(63 - 121)**			**SW846 8260B**
	91	**(63 - 121)**	**3.4**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNHJ1CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290425-004 MHNHJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**75**	**(51 - 110)**			**SW846 8260B**
	80	**(51 - 110)**	**7.5**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**90**	**(46 - 116)**			**SW846 8260B**
	95	**(46 - 116)**	**5.1**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**102**	**(75 - 116)**			**SW846 8260B**
	103	**(75 - 116)**	**0.77**	**(0-30)**	**SW846 8260B**
n-Hexane	130	(54 - 138)			SW846 8260B
	86 p	(54 - 138)	41	(0-30)	SW846 8260B
2-Hexanone	**95**	**(47 - 139)**			**SW846 8260B**
	99	**(47 - 139)**	**4.2**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**92**	**(68 - 116)**			**SW846 8260B**
	91	**(68 - 116)**	**1.2**	**(0-30)**	**SW846 8260B**
Methylene chloride	**89**	**(63 - 128)**			**SW846 8260B**
	92	**(63 - 128)**	**3.3**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**90**	**(56 - 131)**			**SW846 8260B**
	94	**(56 - 131)**	**4.3**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**70**	**(46 - 144)**			**SW846 8260B**
	75	**(46 - 144)**	**6.5**	**(0-30)**	**SW846 8260B**
Styrene	**85**	**(71 - 117)**			**SW846 8260B**
	86	**(71 - 117)**	**1.6**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**94**	**(63 - 122)**			**SW846 8260B**
	95	**(63 - 122)**	**0.90**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**103**	**(70 - 117)**			**SW846 8260B**
	102	**(70 - 117)**	**1.2**	**(0-30)**	**SW846 8260B**
Toluene	**100**	**(78 - 114)**			**SW846 8260B**
	101	**(78 - 114)**	**0.45**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	75	(38 - 138)			SW846 8260B
	83	(38 - 138)	10	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**88**	**(68 - 121)**			**SW846 8260B**
	88	**(68 - 121)**	**0.29**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**98**	**(75 - 115)**			**SW846 8260B**
	98	**(75 - 115)**	**0.70**	**(0-30)**	**SW846 8260B**
Trichloroethene	**93**	**(66 - 120)**			**SW846 8260B**
	95	**(66 - 120)**	**1.7**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	108	(46 - 157)			SW846 8260B
	98	(46 - 157)	9.8	(0-30)	SW846 8260B
Vinyl chloride	**79**	**(49 - 130)**			**SW846 8260B**
	77	**(49 - 130)**	**3.0**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNHJ1CC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290425-004 MHNHJ1CD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**95**	**(76 - 116)**			**SW846 8260B**
	96	**(76 - 116)**	**1.6**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(75 - 121)
	92	(75 - 121)
1,2-Dichloroethane-d4	95	(63 - 129)
	89	(63 - 129)
Toluene-d8	110	(74 - 115)
	105	(74 - 115)
4-Bromofluorobenzene	112	(66 - 117)
	105	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1AG-MSD
Date Sampled...: 04/28/11 10:05 **Date Received..:** 04/30/11
Prep Date.....: 05/12/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1132384
Dilution Factor: 125

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	74	(33 - 145)			SW846 8260B
	83	(33 - 145)	13	(0-30)	SW846 8260B
Benzene	**92**	**(72 - 121)**			**SW846 8260B**
	93	**(72 - 121)**	**1.3**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**93**	**(67 - 120)**			**SW846 8260B**
	95	**(67 - 120)**	**2.0**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	93	(75 - 119)			SW846 8260B
	94	(75 - 119)	1.3	(0-30)	SW846 8260B
Bromoform	108	(32 - 128)			SW846 8260B
	112	(32 - 128)	3.0	(0-30)	SW846 8260B
Bromomethane	43	(10 - 186)			SW846 8260B
	39	(10 - 186)	9.8	(0-30)	SW846 8260B
2-Butanone	**85**	**(54 - 129)**			**SW846 8260B**
	89	**(54 - 129)**	**4.0**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**88**	**(57 - 147)**			**SW846 8260B**
	90	**(57 - 147)**	**2.3**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**96**	**(59 - 129)**			**SW846 8260B**
	96	**(59 - 129)**	**0.40**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**98**	**(80 - 110)**			**SW846 8260B**
	97	**(80 - 110)**	**0.94**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**105**	**(56 - 118)**			**SW846 8260B**
	105	**(56 - 118)**	**0.13**	**(0-30)**	**SW846 8260B**
Chloroethane	49	(21 - 165)			SW846 8260B
	39	(21 - 165)	22	(0-30)	SW846 8260B
Chloroform	**91**	**(76 - 118)**			**SW846 8260B**
	92	**(76 - 118)**	**1.5**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	100	(70 - 152)			SW846 8260B
	102	(70 - 152)	1.5	(0-30)	SW846 8260B
Methyl acetate	81	(47 - 130)			SW846 8260B
	87	(47 - 130)	7.2	(0-30)	SW846 8260B
Chloromethane	55	(33 - 132)			SW846 8260B
	50	(33 - 132)	10	(0-30)	SW846 8260B
Cyclohexane	81	(49 - 123)			SW846 8260B
	84	(49 - 123)	3.7	(0-30)	SW846 8260B
Methylcyclohexane	82	(49 - 127)			SW846 8260B
	82	(49 - 127)	0.97	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**104**	**(32 - 139)**			**SW846 8260B**
	106	**(32 - 139)**	**1.7**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**101**	**(74 - 113)**			**SW846 8260B**
	103	**(74 - 113)**	**1.7**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**99**	**(75 - 111)**			**SW846 8260B**
	100	**(75 - 111)**	**1.4**	**(0-30)**	**SW846 8260B**
o-Xylene	**94**	**(76 - 116)**			**SW846 8260B**
	98	**(76 - 116)**	**3.5**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**100**	**(73 - 110)**			**SW846 8260B**
	102	**(73 - 110)**	**2.2**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**95**	**(75 - 117)**			**SW846 8260B**
	96	**(75 - 117)**	**0.74**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	76	(10 - 150)			SW846 8260B
	73	(10 - 150)	2.9	(0-30)	SW846 8260B
Acetonitrile	77	(12 - 182)			SW846 8260B
	77	(12 - 182)	0.04	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**96**	**(75 - 110)**			**SW846 8260B**
	99	**(75 - 110)**	**3.0**	**(0-30)**	**SW846 8260B**
Acrolein	97	(47 - 168)			SW846 8260B
	96	(47 - 168)	0.42	(0-30)	SW846 8260B
Acrylonitrile	89	(62 - 133)			SW846 8260B
	91	(62 - 133)	2.6	(0-30)	SW846 8260B
Vinyl acetate	115	(43 - 157)			SW846 8260B
	119	(43 - 157)	3.1	(0-30)	SW846 8260B
Bromobenzene	**101**	**(71 - 116)**			**SW846 8260B**
	103	**(71 - 116)**	**1.7**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	59	(17 - 128)			SW846 8260B
	59	(17 - 128)	1.2	(0-30)	SW846 8260B
Bromochloromethane	**92**	**(73 - 121)**			**SW846 8260B**
	93	**(73 - 121)**	**1.1**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**92**	**(56 - 127)**			**SW846 8260B**
	94	**(56 - 127)**	**2.1**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**86**	**(60 - 119)**			**SW846 8260B**
	90	**(60 - 119)**	**3.9**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**82**	**(79 - 116)**			**SW846 8260B**
	85	**(79 - 116)**	**3.6**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**89**	**(61 - 119)**			**SW846 8260B**
	92	**(61 - 119)**	**3.2**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**98**	**(69 - 117)**			**SW846 8260B**
	102	**(69 - 117)**	**4.2**	**(0-30)**	**SW846 8260B**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**100**	**(71 - 116)**			**SW846 8260B**
	102	**(71 - 116)**	**2.5**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**93**	**(68 - 129)**			**SW846 8260B**
	95	**(68 - 129)**	**1.5**	**(0-30)**	**SW846 8260B**
Dibromomethane	**98**	**(77 - 121)**			**SW846 8260B**
	98	**(77 - 121)**	**0.25**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**98**	**(74 - 118)**			**SW846 8260B**
	98	**(74 - 118)**	**0.62**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	79	(38 - 127)			SW846 8260B
	81	(38 - 127)	2.2	(0-30)	SW846 8260B
1,1-Dichloropropene	**95**	**(80 - 114)**			**SW846 8260B**
	96	**(80 - 114)**	**1.4**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**94**	**(70 - 120)**			**SW846 8260B**
	95	**(70 - 120)**	**0.49**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	90	(27 - 132)			SW846 8260B
	95	(27 - 132)	5.8	(0-30)	SW846 8260B
Iodomethane	95	(66 - 144)			SW846 8260B
	98	(66 - 144)	3.8	(0-30)	SW846 8260B
Isopropyl ether	73	(73 - 118)			SW846 8260B
	78	(73 - 118)	6.1	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**92**	**(80 - 119)**			**SW846 8260B**
	94	**(80 - 119)**	**2.1**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**95**	**(64 - 122)**			**SW846 8260B**
	98	**(64 - 122)**	**3.2**	**(0-30)**	**SW846 8260B**
Naphthalene	0.0 a	(15 - 158)			SW846 8260B
	0.0 a	(15 - 158)	0.0	(0-30)	SW846 8260B
n-Propylbenzene	**93**	**(64 - 124)**			**SW846 8260B**
	97	**(64 - 124)**	**3.9**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**93**	**(74 - 135)**			**SW846 8260B**
	94	**(74 - 135)**	**1.0**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**96**	**(64 - 118)**			**SW846 8260B**
	96	**(64 - 118)**	**0.73**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	106	(45 - 129)			SW846 8260B
	110	(45 - 129)	3.9	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**96**	**(67 - 132)**			**SW846 8260B**
	103	**(67 - 132)**	**7.4**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**91**	**(67 - 124)**			**SW846 8260B**
	94	**(67 - 124)**	**2.6**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**85**	**(78 - 115)**			**SW846 8260B**
	87	**(78 - 115)**	**3.0**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**86**	**(63 - 121)**			**SW846 8260B**
	89	**(63 - 121)**	**2.8**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**81**	**(51 - 110)**			**SW846 8260B**
	86	**(51 - 110)**	**5.9**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**91**	**(46 - 116)**			**SW846 8260B**
	94	**(46 - 116)**	**3.2**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**106**	**(75 - 116)**			**SW846 8260B**
	108	**(75 - 116)**	**2.2**	**(0-30)**	**SW846 8260B**
n-Hexane	92	(54 - 138)			SW846 8260B
	93	(54 - 138)	0.61	(0-30)	SW846 8260B
2-Hexanone	**91**	**(47 - 139)**			**SW846 8260B**
	95	**(47 - 139)**	**4.0**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**88**	**(68 - 116)**			**SW846 8260B**
	91	**(68 - 116)**	**3.2**	**(0-30)**	**SW846 8260B**
Methylene chloride	**90**	**(63 - 128)**			**SW846 8260B**
	92	**(63 - 128)**	**1.8**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**93**	**(56 - 131)**			**SW846 8260B**
	97	**(56 - 131)**	**4.3**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**69**	**(46 - 144)**			**SW846 8260B**
	73	**(46 - 144)**	**6.1**	**(0-30)**	**SW846 8260B**
Styrene	**95**	**(71 - 117)**			**SW846 8260B**
	97	**(71 - 117)**	**1.6**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**94**	**(63 - 122)**			**SW846 8260B**
	98	**(63 - 122)**	**3.7**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**103**	**(70 - 117)**			**SW846 8260B**
	102	**(70 - 117)**	**1.2**	**(0-30)**	**SW846 8260B**
Toluene	**100**	**(78 - 114)**			**SW846 8260B**
	102	**(78 - 114)**	**1.3**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	88	(38 - 138)			SW846 8260B
	94	(38 - 138)	6.6	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**83**	**(68 - 121)**			**SW846 8260B**
	88	**(68 - 121)**	**5.4**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**96**	**(75 - 115)**			**SW846 8260B**
	100	**(75 - 115)**	**4.2**	**(0-30)**	**SW846 8260B**
Trichloroethene	**96**	**(66 - 120)**			**SW846 8260B**
	97	**(66 - 120)**	**0.83**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	86	(46 - 157)			SW846 8260B
	83	(46 - 157)	4.4	(0-30)	SW846 8260B
Vinyl chloride	**75**	**(49 - 130)**			**SW846 8260B**
	74	**(49 - 130)**	**0.54**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**95**	**(76 - 116)**			**SW846 8260B**
	97	**(76 - 116)**	**1.7**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(75 - 121)
	94	(75 - 121)
1,2-Dichloroethane-d4	95	(63 - 129)
	93	(63 - 129)
Toluene-d8	107	(74 - 115)
	106	(74 - 115)
4-Bromofluorobenzene	111	(66 - 117)
	109	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQPT1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020428-007 MHQPT1AD-MSD
Date Sampled...: 04/28/11 10:30 **Date Received..:** 04/30/11
Prep Date.....: 05/12/11 **Analysis Date..:** 05/12/11
Prep Batch #...: 1132384
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	70	(33 - 145)			SW846 8260B
	80	(33 - 145)	13	(0-30)	SW846 8260B
Benzene	**85**	**(72 - 121)**			**SW846 8260B**
	89	**(72 - 121)**	**4.9**	**(0-30)**	**SW846 8260B**
Bromodichloromethane	**87**	**(67 - 120)**			**SW846 8260B**
	91	**(67 - 120)**	**5.1**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethene (total)	87	(75 - 119)			SW846 8260B
	92	(75 - 119)	5.2	(0-30)	SW846 8260B
Bromoform	101	(32 - 128)			SW846 8260B
	105	(32 - 128)	4.4	(0-30)	SW846 8260B
Bromomethane	23	(10 - 186)			SW846 8260B
	31	(10 - 186)	29	(0-30)	SW846 8260B
2-Butanone	**81**	**(54 - 129)**			**SW846 8260B**
	87	**(54 - 129)**	**7.2**	**(0-30)**	**SW846 8260B**
Carbon disulfide	**89**	**(57 - 147)**			**SW846 8260B**
	94	**(57 - 147)**	**5.5**	**(0-30)**	**SW846 8260B**
Carbon tetrachloride	**88**	**(59 - 129)**			**SW846 8260B**
	94	**(59 - 129)**	**6.4**	**(0-30)**	**SW846 8260B**
Chlorobenzene	**91**	**(80 - 110)**			**SW846 8260B**
	94	**(80 - 110)**	**3.6**	**(0-30)**	**SW846 8260B**
Dibromochloromethane	**96**	**(56 - 118)**			**SW846 8260B**
	99	**(56 - 118)**	**3.7**	**(0-30)**	**SW846 8260B**
Chloroethane	38	(21 - 165)			SW846 8260B
	54 p	(21 - 165)	33	(0-30)	SW846 8260B
Chloroform	**84**	**(76 - 118)**			**SW846 8260B**
	90	**(76 - 118)**	**6.0**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloro-1,2,2-trifluoroethane	94	(70 - 152)			SW846 8260B
	99	(70 - 152)	5.7	(0-30)	SW846 8260B
Methyl acetate	82	(47 - 130)			SW846 8260B
	80	(47 - 130)	2.6	(0-30)	SW846 8260B
Chloromethane	31 a	(33 - 132)			SW846 8260B
	42	(33 - 132)	29	(0-30)	SW846 8260B
Cyclohexane	79	(49 - 123)			SW846 8260B
	81	(49 - 123)	3.2	(0-30)	SW846 8260B
Methylcyclohexane	77	(49 - 127)			SW846 8260B
	82	(49 - 127)	6.2	(0-30)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQPT1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020428-007 MHQPT1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2-Dibromo-3-chloro-propane	**92**	**(32 - 139)**			**SW846 8260B**
	101	**(32 - 139)**	**9.2**	**(0-30)**	**SW846 8260B**
1,2-Dibromoethane	**95**	**(74 - 113)**			**SW846 8260B**
	99	**(74 - 113)**	**4.1**	**(0-30)**	**SW846 8260B**
1,2-Dichlorobenzene	**93**	**(75 - 111)**			**SW846 8260B**
	98	**(75 - 111)**	**5.4**	**(0-30)**	**SW846 8260B**
o-Xylene	**89**	**(76 - 116)**			**SW846 8260B**
	93	**(76 - 116)**	**4.6**	**(0-30)**	**SW846 8260B**
1,3-Dichlorobenzene	**93**	**(73 - 110)**			**SW846 8260B**
	100	**(73 - 110)**	**7.1**	**(0-30)**	**SW846 8260B**
m-Xylene & p-Xylene	**89**	**(75 - 117)**			**SW846 8260B**
	93	**(75 - 117)**	**3.9**	**(0-30)**	**SW846 8260B**
2-Chloroethyl vinyl ether	0.0 a	(10 - 150)			SW846 8260B
	0.0 a	(10 - 150)	0.0	(0-30)	SW846 8260B
Acetonitrile	75	(12 - 182)			SW846 8260B
	76	(12 - 182)	1.3	(0-30)	SW846 8260B
1,4-Dichlorobenzene	**90**	**(75 - 110)**			**SW846 8260B**
	95	**(75 - 110)**	**5.3**	**(0-30)**	**SW846 8260B**
Acrolein	93	(47 - 168)			SW846 8260B
	94	(47 - 168)	1.9	(0-30)	SW846 8260B
Acrylonitrile	84	(62 - 133)			SW846 8260B
	89	(62 - 133)	5.5	(0-30)	SW846 8260B
Vinyl acetate	106	(43 - 157)			SW846 8260B
	111	(43 - 157)	4.3	(0-30)	SW846 8260B
Bromobenzene	**95**	**(71 - 116)**			**SW846 8260B**
	102	**(71 - 116)**	**7.8**	**(0-30)**	**SW846 8260B**
Dichlorodifluoromethane	55	(17 - 128)			SW846 8260B
	57	(17 - 128)	4.2	(0-30)	SW846 8260B
Bromochloromethane	**90**	**(73 - 121)**			**SW846 8260B**
	92	**(73 - 121)**	**2.1**	**(0-30)**	**SW846 8260B**
n-Butylbenzene	**78**	**(56 - 127)**			**SW846 8260B**
	83	**(56 - 127)**	**6.9**	**(0-30)**	**SW846 8260B**
sec-Butylbenzene	**83**	**(60 - 119)**			**SW846 8260B**
	88	**(60 - 119)**	**5.6**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethane	**79**	**(79 - 116)**			**SW846 8260B**
	85	**(79 - 116)**	**6.2**	**(0-30)**	**SW846 8260B**
tert-Butylbenzene	**83**	**(61 - 119)**			**SW846 8260B**
	89	**(61 - 119)**	**6.7**	**(0-30)**	**SW846 8260B**
2-Chlorotoluene	**93**	**(69 - 117)**			**SW846 8260B**
	99	**(69 - 117)**	**5.9**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQPT1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020428-007 MHQPT1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	**94**	**(71 - 116)**			**SW846 8260B**
	99	**(71 - 116)**	**4.9**	**(0-30)**	**SW846 8260B**
1,2-Dichloroethane	**85**	**(68 - 129)**			**SW846 8260B**
	91	**(68 - 129)**	**6.0**	**(0-30)**	**SW846 8260B**
Dibromomethane	**90**	**(77 - 121)**			**SW846 8260B**
	97	**(77 - 121)**	**7.9**	**(0-30)**	**SW846 8260B**
1,3-Dichloropropane	**90**	**(74 - 118)**			**SW846 8260B**
	93	**(74 - 118)**	**3.3**	**(0-30)**	**SW846 8260B**
2,2-Dichloropropane	77	(38 - 127)			SW846 8260B
	82	(38 - 127)	6.5	(0-30)	SW846 8260B
1,1-Dichloropropene	**90**	**(80 - 114)**			**SW846 8260B**
	94	**(80 - 114)**	**4.1**	**(0-30)**	**SW846 8260B**
cis-1,2-Dichloroethene	**87**	**(70 - 120)**			**SW846 8260B**
	93	**(70 - 120)**	**6.4**	**(0-30)**	**SW846 8260B**
Hexachlorobutadiene	87	(27 - 132)			SW846 8260B
	95	(27 - 132)	8.1	(0-30)	SW846 8260B
Iodomethane	90	(66 - 144)			SW846 8260B
	96	(66 - 144)	6.8	(0-30)	SW846 8260B
Isopropyl ether	75	(73 - 118)			SW846 8260B
	78	(73 - 118)	4.0	(0-30)	SW846 8260B
trans-1,2-Dichloroethene	**88**	**(80 - 119)**			**SW846 8260B**
	91	**(80 - 119)**	**3.8**	**(0-30)**	**SW846 8260B**
p-Isopropyltoluene	**86**	**(64 - 122)**			**SW846 8260B**
	91	**(64 - 122)**	**5.9**	**(0-30)**	**SW846 8260B**
Naphthalene	111	(15 - 158)			SW846 8260B
	86	(15 - 158)	25	(0-30)	SW846 8260B
n-Propylbenzene	**88**	**(64 - 124)**			**SW846 8260B**
	95	**(64 - 124)**	**7.6**	**(0-30)**	**SW846 8260B**
1,1-Dichloroethene	**89**	**(74 - 135)**			**SW846 8260B**
	93	**(74 - 135)**	**4.6**	**(0-30)**	**SW846 8260B**
1,1,1,2-Tetrachloroethane	**92**	**(64 - 118)**			**SW846 8260B**
	93	**(64 - 118)**	**0.60**	**(0-30)**	**SW846 8260B**
1,2,3-Trichlorobenzene	97	(45 - 129)			SW846 8260B
	96	(45 - 129)	0.36	(0-30)	SW846 8260B
1,2,3-Trichloropropane	**92**	**(67 - 132)**			**SW846 8260B**
	95	**(67 - 132)**	**3.3**	**(0-30)**	**SW846 8260B**
1,2,4-Trimethylbenzene	**86**	**(67 - 124)**			**SW846 8260B**
	92	**(67 - 124)**	**6.0**	**(0-30)**	**SW846 8260B**
1,2-Dichloropropane	**81**	**(78 - 115)**			**SW846 8260B**
	87	**(78 - 115)**	**6.5**	**(0-30)**	**SW846 8260B**
1,3,5-Trimethylbenzene	**85**	**(63 - 121)**			**SW846 8260B**
	89	**(63 - 121)**	**5.4**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQPT1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020428-007 MHQPT1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
cis-1,3-Dichloropropene	**73**	**(51 - 110)**			**SW846 8260B**
	80	**(51 - 110)**	**8.2**	**(0-30)**	**SW846 8260B**
trans-1,3-Dichloropropene	**86**	**(46 - 116)**			**SW846 8260B**
	90	**(46 - 116)**	**5.2**	**(0-30)**	**SW846 8260B**
Ethylbenzene	**94**	**(75 - 116)**			**SW846 8260B**
	98	**(75 - 116)**	**3.9**	**(0-30)**	**SW846 8260B**
n-Hexane	84	(54 - 138)			SW846 8260B
	90	(54 - 138)	6.3	(0-30)	SW846 8260B
2-Hexanone	**87**	**(47 - 139)**			**SW846 8260B**
	92	**(47 - 139)**	**5.0**	**(0-30)**	**SW846 8260B**
Isopropylbenzene	**86**	**(68 - 116)**			**SW846 8260B**
	90	**(68 - 116)**	**4.4**	**(0-30)**	**SW846 8260B**
Methylene chloride	**82**	**(63 - 128)**			**SW846 8260B**
	87	**(63 - 128)**	**6.0**	**(0-30)**	**SW846 8260B**
4-Methyl-2-pentanone	**88**	**(56 - 131)**			**SW846 8260B**
	94	**(56 - 131)**	**6.7**	**(0-30)**	**SW846 8260B**
Methyl tert-butyl ether (MTBE)	**70**	**(46 - 144)**			**SW846 8260B**
	75	**(46 - 144)**	**6.9**	**(0-30)**	**SW846 8260B**
Styrene	**87**	**(71 - 117)**			**SW846 8260B**
	91	**(71 - 117)**	**4.8**	**(0-30)**	**SW846 8260B**
1,1,2,2-Tetrachloroethane	**90**	**(63 - 122)**			**SW846 8260B**
	94	**(63 - 122)**	**4.3**	**(0-30)**	**SW846 8260B**
Tetrachloroethene	**95**	**(70 - 117)**			**SW846 8260B**
	97	**(70 - 117)**	**2.1**	**(0-30)**	**SW846 8260B**
Toluene	**93**	**(78 - 114)**			**SW846 8260B**
	97	**(78 - 114)**	**4.5**	**(0-30)**	**SW846 8260B**
1,2,4-Trichloro-benzene	77	(38 - 138)			SW846 8260B
	81	(38 - 138)	4.5	(0-30)	SW846 8260B
1,1,1-Trichloroethane	**81**	**(68 - 121)**			**SW846 8260B**
	86	**(68 - 121)**	**6.4**	**(0-30)**	**SW846 8260B**
1,1,2-Trichloroethane	**92**	**(75 - 115)**			**SW846 8260B**
	96	**(75 - 115)**	**3.9**	**(0-30)**	**SW846 8260B**
Trichloroethene	**90**	**(66 - 120)**			**SW846 8260B**
	94	**(66 - 120)**	**4.3**	**(0-30)**	**SW846 8260B**
Trichlorofluoromethane	74	(46 - 157)			SW846 8260B
	80	(46 - 157)	8.2	(0-30)	SW846 8260B
Vinyl chloride	**70**	**(49 - 130)**			**SW846 8260B**
	74	**(49 - 130)**	**5.0**	**(0-30)**	**SW846 8260B**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQPT1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020428-007 MHQPT1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Xylenes (total)	**89**	**(76 - 116)**			**SW846 8260B**
	93	**(76 - 116)**	**4.2**	**(0-30)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	92	(75 - 121)
	93	(75 - 121)
1,2-Dichloroethane-d4	90	(63 - 129)
	92	(63 - 129)
Toluene-d8	104	(74 - 115)
	104	(74 - 115)
4-Bromofluorobenzene	107	(66 - 117)
	108	(66 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNJQ1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290428-004 MHNJQ1AG-MSD
Date Sampled...: 04/28/11 09:18 **Date Received..:** 04/29/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/10/11
Prep Batch #...: 1123029
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**64**	**(36 - 110)**			**SW846 8270C**
	63	**(36 - 110)**	**0.74**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**59**	**(25 - 110)**			**SW846 8270C**
	59	**(25 - 110)**	**1.4**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**65**	**(39 - 110)**			**SW846 8270C**
	65	**(39 - 110)**	**0.45**	**(0-30)**	**SW846 8270C**
Anthracene	**68**	**(46 - 110)**			**SW846 8270C**
	68	**(46 - 110)**	**0.71**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**64**	**(52 - 110)**			**SW846 8270C**
	66	**(52 - 110)**	**3.5**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**74**	**(46 - 119)**			**SW846 8270C**
	73	**(46 - 119)**	**0.73**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**59**	**(33 - 110)**			**SW846 8270C**
	58	**(33 - 110)**	**1.7**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**59**	**(33 - 114)**			**SW846 8270C**
	58	**(33 - 114)**	**2.3**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**65**	**(34 - 116)**			**SW846 8270C**
	68	**(34 - 116)**	**5.4**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**65**	**(25 - 119)**			**SW846 8270C**
	66	**(25 - 119)**	**0.76**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**74**	**(32 - 121)**			**SW846 8270C**
	77	**(32 - 121)**	**3.4**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**56**	**(17 - 110)**			**SW846 8270C**
	58	**(17 - 110)**	**3.8**	**(0-30)**	**SW846 8270C**
Chrysene	**70**	**(52 - 111)**			**SW846 8270C**
	70	**(52 - 111)**	**0.06**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**63**	**(35 - 118)**			**SW846 8270C**
	67	**(35 - 118)**	**5.3**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**68**	**(23 - 110)**			**SW846 8270C**
	69	**(23 - 110)**	**0.91**	**(0-30)**	**SW846 8270C**
Fluoranthene	**72**	**(53 - 111)**			**SW846 8270C**
	70	**(53 - 111)**	**2.0**	**(0-30)**	**SW846 8270C**
Phenol	**36**	**(16 - 110)**			**SW846 8270C**
	40	**(16 - 110)**	**9.8**	**(0-30)**	**SW846 8270C**
Fluorene	**67**	**(43 - 110)**			**SW846 8270C**
	66	**(43 - 110)**	**1.9**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNJQ1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290428-004 MHNJQ1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**66**	**(36 - 116)**			**SW846 8270C**
	67	**(36 - 116)**	**1.5**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**59**	**(26 - 110)**			**SW846 8270C**
	62	**(26 - 110)**	**4.7**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	61	(10 - 130)			SW846 8270C
	61	(10 - 130)	0.39	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**67**	**(33 - 110)**			**SW846 8270C**
	66	**(33 - 110)**	**1.4**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**72**	**(35 - 110)**			**SW846 8270C**
	71	**(35 - 110)**	**2.2**	**(0-30)**	**SW846 8270C**
Naphthalene	**59**	**(32 - 110)**			**SW846 8270C**
	58	**(32 - 110)**	**1.3**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**48**	**(13 - 127)**			**SW846 8270C**
	54	**(13 - 127)**	**12**	**(0-30)**	**SW846 8270C**
Phenanthrene	**68**	**(47 - 110)**			**SW846 8270C**
	67	**(47 - 110)**	**2.2**	**(0-30)**	**SW846 8270C**
Pyrene	**69**	**(54 - 115)**			**SW846 8270C**
	67	**(54 - 115)**	**2.7**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**64**	**(35 - 110)**			**SW846 8270C**
	63	**(35 - 110)**	**1.5**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**60**	**(27 - 110)**			**SW846 8270C**
	61	**(27 - 110)**	**2.4**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**62**	**(13 - 124)**			**SW846 8270C**
	64	**(13 - 124)**	**2.2**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**65**	**(40 - 140)**			**SW846 8270C**
	67	**(40 - 140)**	**3.7**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**72**	**(42 - 113)**			**SW846 8270C**
	71	**(42 - 113)**	**2.6**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**69**	**(51 - 121)**			**SW846 8270C**
	69	**(51 - 121)**	**1.1**	**(0-30)**	**SW846 8270C**
Carbazole	**71**	**(49 - 114)**			**SW846 8270C**
	69	**(49 - 114)**	**2.8**	**(0-30)**	**SW846 8270C**

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNJQ1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290428-004 MHNJQ1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	**28**	**(10 - 110)**			**SW846 8270C**
	31	**(10 - 110)**	**12**	**(0-30)**	**SW846 8270C**
2-Chloronaphthalene	**63**	**(34 - 110)**			**SW846 8270C**
	63	**(34 - 110)**	**0.11**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	35 a	(43 - 113)			SW846 8270C
	34 a	(43 - 113)	1.8	(0-30)	SW846 8270C
Dibenzofuran	**66**	**(41 - 110)**			**SW846 8270C**
	65	**(41 - 110)**	**1.2**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**72**	**(50 - 117)**			**SW846 8270C**
	71	**(50 - 117)**	**0.82**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**57**	**(22 - 110)**			**SW846 8270C**
	58	**(22 - 110)**	**1.8**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**57**	**(19 - 110)**			**SW846 8270C**
	58	**(19 - 110)**	**2.3**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	54	(10 - 110)			SW846 8270C
	53	(10 - 110)	3.2	(0-30)	SW846 8270C
2,4-Dichlorophenol	**64**	**(30 - 110)**			**SW846 8270C**
	64	**(30 - 110)**	**0.81**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**72**	**(33 - 130)**			**SW846 8270C**
	71	**(33 - 130)**	**2.8**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**59**	**(11 - 110)**			**SW846 8270C**
	59	**(11 - 110)**	**1.1**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**71**	**(36 - 124)**			**SW846 8270C**
	70	**(36 - 124)**	**1.3**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	69	(25 - 110)			SW846 8270C
	68	(25 - 110)	0.63	(0-30)	SW846 8270C
2,4-Dinitrophenol	57	(11 - 119)			SW846 8270C
	59	(11 - 119)	4.9	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**74**	**(48 - 115)**			**SW846 8270C**
	72	**(48 - 115)**	**2.8**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**63**	**(36 - 124)**			**SW846 8270C**
	65	**(36 - 124)**	**2.7**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**69**	**(40 - 113)**			**SW846 8270C**
	70	**(40 - 113)**	**1.7**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**55**	**(14 - 110)**			**SW846 8270C**
	56	**(14 - 110)**	**1.5**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNJQ1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290428-004 MHNJQ1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	55	(10 - 110)			SW846 8270C
	56	(10 - 110)	2.2	(0-30)	SW846 8270C
Hexachloroethane	**57**	**(10 - 110)**			**SW846 8270C**
	58	**(10 - 110)**	**2.5**	**(0-30)**	**SW846 8270C**
Isophorone	**65**	**(34 - 125)**			**SW846 8270C**
	63	**(34 - 125)**	**2.5**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**58**	**(26 - 110)**			**SW846 8270C**
	60	**(26 - 110)**	**3.4**	**(0-30)**	**SW846 8270C**
4-Methylphenol	57	(25 - 110)			SW846 8270C
	60	(25 - 110)	4.5	(0-30)	SW846 8270C
2-Nitroaniline	**70**	**(31 - 129)**			**SW846 8270C**
	70	**(31 - 129)**	**0.99**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**70**	**(23 - 112)**			**SW846 8270C**
	69	**(23 - 112)**	**1.6**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**72**	**(26 - 115)**			**SW846 8270C**
	71	**(26 - 115)**	**1.5**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**61**	**(26 - 118)**			**SW846 8270C**
	61	**(26 - 118)**	**0.79**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**63**	**(30 - 110)**			**SW846 8270C**
	62	**(30 - 110)**	**0.88**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**69**	**(28 - 118)**			**SW846 8270C**
	67	**(28 - 118)**	**3.4**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**68**	**(36 - 110)**			**SW846 8270C**
	64	**(36 - 110)**	**6.0**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**68**	**(34 - 110)**			**SW846 8270C**
	66	**(34 - 110)**	**2.5**	**(0-30)**	**SW846 8270C**
Benzoic acid	35	(10 - 165)			SW846 8270C
	40	(10 - 165)	14	(0-30)	SW846 8270C
1,4-Dioxane	35	(10 - 110)			SW846 8270C
	38	(10 - 110)	6.5	(0-30)	SW846 8270C
Pyridine	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Atrazine	93	(50 - 130)			SW846 8270C
	88	(50 - 130)	5.5	(0-30)	SW846 8270C
Acetophenone	63	(50 - 130)			SW846 8270C
	63	(50 - 130)	0.49	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHNJQ1AF-MS **Matrix.....:** WATER
MS Lot-Sample #: A1D290428-004 MHNJQ1AG-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	62	(50 - 130)			SW846 8270C
	61	(50 - 130)	1.7	(0-30)	SW846 8270C
Caprolactam	19 a	(50 - 130)			SW846 8270C
	22 a	(50 - 130)	12	(0-30)	SW846 8270C
Aniline	2.1 a	(10 - 130)			SW846 8270C
	2.3 a	(10 - 130)	6.5	(0-30)	SW846 8270C
Benzyl alcohol	48	(10 - 130)			SW846 8270C
	52	(10 - 130)	6.5	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**40**	**(10 - 130)**			**SW846 8270C**
	41	**(10 - 130)**	**3.3**	**(0-30)**	**SW846 8270C**
1,2-Dinitrobenzene	0.0 a	(10 - 130)			SW846 8270C
	0.0 a	(10 - 130)	0.0	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	70	(10 - 130)			SW846 8270C
	69	(10 - 130)	1.7	(0-30)	SW846 8270C
Benzaldehyde	77	(10 - 130)			SW846 8270C
	79	(10 - 130)	2.7	(0-30)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	62	(13 - 124)			SW846 8270C
	64	(13 - 124)	2.2	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(27 - 111)
	58	(27 - 111)
2-Fluorobiphenyl	60	(28 - 110)
	61	(28 - 110)
Terphenyl-d14	74	(37 - 119)
	75	(37 - 119)
Phenol-d5	35	(10 - 110)
	38	(10 - 110)
2-Fluorophenol	47	(10 - 110)
	51	(10 - 110)
2,4,6-Tribromophenol	72	(22 - 120)
	71	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CH-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CJ-MSD
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/09/11
Prep Batch #...: 1123029
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**65**	**(36 - 110)**			**SW846 8270C**
	65	**(36 - 110)**	**0.22**	**(0-30)**	**SW846 8270C**
1,2,4-Trichloro- benzene	**68**	**(25 - 110)**			**SW846 8270C**
	68	**(25 - 110)**	**0.38**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**67**	**(39 - 110)**			**SW846 8270C**
	68	**(39 - 110)**	**0.75**	**(0-30)**	**SW846 8270C**
Anthracene	**66**	**(46 - 110)**			**SW846 8270C**
	65	**(46 - 110)**	**1.1**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**57**	**(52 - 110)**			**SW846 8270C**
	59	**(52 - 110)**	**2.1**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**72**	**(46 - 119)**			**SW846 8270C**
	71	**(46 - 119)**	**1.8**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**52**	**(33 - 110)**			**SW846 8270C**
	53	**(33 - 110)**	**2.0**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**50**	**(33 - 114)**			**SW846 8270C**
	53	**(33 - 114)**	**6.4**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**57**	**(34 - 116)**			**SW846 8270C**
	61	**(34 - 116)**	**7.8**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**72**	**(25 - 119)**			**SW846 8270C**
	69	**(25 - 119)**	**4.3**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**65**	**(32 - 121)**			**SW846 8270C**
	69	**(32 - 121)**	**5.6**	**(0-30)**	**SW846 8270C**
1,4-Dichlorobenzene	**67**	**(17 - 110)**			**SW846 8270C**
	67	**(17 - 110)**	**0.40**	**(0-30)**	**SW846 8270C**
Chrysene	**64**	**(52 - 111)**			**SW846 8270C**
	60	**(52 - 111)**	**5.2**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**55**	**(35 - 118)**			**SW846 8270C**
	60	**(35 - 118)**	**8.0**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**76**	**(23 - 110)**			**SW846 8270C**
	68	**(23 - 110)**	**10**	**(0-30)**	**SW846 8270C**
Fluoranthene	**67**	**(53 - 111)**			**SW846 8270C**
	70	**(53 - 111)**	**4.0**	**(0-30)**	**SW846 8270C**
Phenol	**41**	**(16 - 110)**			**SW846 8270C**
	44	**(16 - 110)**	**7.6**	**(0-30)**	**SW846 8270C**
Fluorene	**67**	**(43 - 110)**			**SW846 8270C**
	67	**(43 - 110)**	**0.05**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CH-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Indeno(1,2,3-cd)pyrene	**56**	**(36 - 116)**			**SW846 8270C**
	61	**(36 - 116)**	**9.0**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**69**	**(26 - 110)**			**SW846 8270C**
	70	**(26 - 110)**	**1.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	66	(10 - 130)			SW846 8270C
	67	(10 - 130)	0.95	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	**70**	**(33 - 110)**			**SW846 8270C**
	68	**(33 - 110)**	**2.1**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**79**	**(35 - 110)**			**SW846 8270C**
	79	**(35 - 110)**	**0.54**	**(0-30)**	**SW846 8270C**
Naphthalene	**67**	**(32 - 110)**			**SW846 8270C**
	65	**(32 - 110)**	**1.9**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**45**	**(13 - 127)**			**SW846 8270C**
	49	**(13 - 127)**	**7.9**	**(0-30)**	**SW846 8270C**
Phenanthrene	**66**	**(47 - 110)**			**SW846 8270C**
	66	**(47 - 110)**	**1.1**	**(0-30)**	**SW846 8270C**
Pyrene	**64**	**(54 - 115)**			**SW846 8270C**
	64	**(54 - 115)**	**0.09**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**69**	**(35 - 110)**			**SW846 8270C**
	73	**(35 - 110)**	**6.6**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethyl)- ether	**66**	**(27 - 110)**			**SW846 8270C**
	74	**(27 - 110)**	**12**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**73**	**(13 - 124)**			**SW846 8270C**
	78	**(13 - 124)**	**6.6**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**57**	**(40 - 140)**			**SW846 8270C**
	60	**(40 - 140)**	**5.7**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**70**	**(42 - 113)**			**SW846 8270C**
	72	**(42 - 113)**	**2.4**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**64**	**(51 - 121)**			**SW846 8270C**
	67	**(51 - 121)**	**3.7**	**(0-30)**	**SW846 8270C**
Carbazole	**66**	**(49 - 114)**			**SW846 8270C**
	68	**(49 - 114)**	**2.5**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CH-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chloroaniline	**28**	**(10 - 110)**			**SW846 8270C**
	40 p	**(10 - 110)**	**36**	**(0-30)**	**SW846 8270C**
2-Chloronaphthalene	**66**	**(34 - 110)**			**SW846 8270C**
	67	**(34 - 110)**	**2.7**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	35 a	(43 - 113)			SW846 8270C
	35 a	(43 - 113)	1.6	(0-30)	SW846 8270C
Dibenzofuran	**67**	**(41 - 110)**			**SW846 8270C**
	67	**(41 - 110)**	**0.18**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**69**	**(50 - 117)**			**SW846 8270C**
	70	**(50 - 117)**	**2.0**	**(0-30)**	**SW846 8270C**
1,2-Dichlorobenzene	**67**	**(22 - 110)**			**SW846 8270C**
	69	**(22 - 110)**	**2.0**	**(0-30)**	**SW846 8270C**
1,3-Dichlorobenzene	**66**	**(19 - 110)**			**SW846 8270C**
	64	**(19 - 110)**	**3.6**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	0.0 a	(10 - 110)			SW846 8270C
	19 p	(10 - 110)	200	(0-30)	SW846 8270C
2,4-Dichlorophenol	**69**	**(30 - 110)**			**SW846 8270C**
	70	**(30 - 110)**	**0.81**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**70**	**(33 - 130)**			**SW846 8270C**
	69	**(33 - 130)**	**0.42**	**(0-30)**	**SW846 8270C**
2,4-Dimethylphenol	**66**	**(11 - 110)**			**SW846 8270C**
	63	**(11 - 110)**	**4.5**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**68**	**(36 - 124)**			**SW846 8270C**
	69	**(36 - 124)**	**0.83**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	67	(25 - 110)			SW846 8270C
	54	(25 - 110)	22	(0-30)	SW846 8270C
2,4-Dinitrophenol	57	(11 - 119)			SW846 8270C
	36 p	(11 - 119)	44	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**74**	**(48 - 115)**			**SW846 8270C**
	71	**(48 - 115)**	**4.3**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**54**	**(36 - 124)**			**SW846 8270C**
	61	**(36 - 124)**	**12**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**64**	**(40 - 113)**			**SW846 8270C**
	68	**(40 - 113)**	**5.6**	**(0-30)**	**SW846 8270C**
Hexachlorobutadiene	**66**	**(14 - 110)**			**SW846 8270C**
	65	**(14 - 110)**	**2.3**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CH-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorocyclopenta-diene	62	(10 - 110)			SW846 8270C
	32 p	(10 - 110)	64	(0-30)	SW846 8270C
Hexachloroethane	**69**	**(10 - 110)**			**SW846 8270C**
	68	**(10 - 110)**	**1.0**	**(0-30)**	**SW846 8270C**
Isophorone	**68**	**(34 - 125)**			**SW846 8270C**
	69	**(34 - 125)**	**0.85**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**63**	**(26 - 110)**			**SW846 8270C**
	61	**(26 - 110)**	**3.8**	**(0-30)**	**SW846 8270C**
4-Methylphenol	63	(25 - 110)			SW846 8270C
	62	(25 - 110)	1.6	(0-30)	SW846 8270C
2-Nitroaniline	**71**	**(31 - 129)**			**SW846 8270C**
	74	**(31 - 129)**	**4.0**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**58**	**(23 - 112)**			**SW846 8270C**
	65	**(23 - 112)**	**13**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**62**	**(26 - 115)**			**SW846 8270C**
	66	**(26 - 115)**	**7.2**	**(0-30)**	**SW846 8270C**
Nitrobenzene	**68**	**(26 - 118)**			**SW846 8270C**
	71	**(26 - 118)**	**4.2**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**69**	**(30 - 110)**			**SW846 8270C**
	68	**(30 - 110)**	**0.74**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**68**	**(28 - 118)**			**SW846 8270C**
	68	**(28 - 118)**	**0.16**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro-phenol	**71**	**(36 - 110)**			**SW846 8270C**
	71	**(36 - 110)**	**0.34**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro-phenol	**67**	**(34 - 110)**			**SW846 8270C**
	64	**(34 - 110)**	**5.6**	**(0-30)**	**SW846 8270C**
Benzoic acid	49	(10 - 165)			SW846 8270C
	0.0 a,p	(10 - 165)	200	(0-30)	SW846 8270C
1,4-Dioxane	38	(10 - 110)			SW846 8270C
	54 p	(10 - 110)	35	(0-30)	SW846 8270C
Pyridine	0.0 a	(10 - 110)			SW846 8270C
	0.0 a	(10 - 110)	0.0	(0-30)	SW846 8270C
Atrazine	79	(50 - 130)			SW846 8270C
	84	(50 - 130)	5.6	(0-30)	SW846 8270C
Acetophenone	68	(50 - 130)			SW846 8270C
	71	(50 - 130)	3.3	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CH-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1'-Biphenyl	64	(50 - 130)			SW846 8270C
	65	(50 - 130)	1.9	(0-30)	SW846 8270C
Caprolactam	17 a	(50 - 130)			SW846 8270C
	16 a	(50 - 130)	5.1	(0-30)	SW846 8270C
Aniline	2.5 a	(10 - 130)			SW846 8270C
	3.2 a	(10 - 130)	23	(0-30)	SW846 8270C
Benzyl alcohol	53	(10 - 130)			SW846 8270C
	52	(10 - 130)	2.5	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**42**	**(10 - 130)**			**SW846 8270C**
	50	**(10 - 130)**	**18**	**(0-30)**	**SW846 8270C**
2,3,5,6-Tetrachlorophenol	72	(10 - 130)			SW846 8270C
	64	(10 - 130)	11	(0-30)	SW846 8270C
Benzaldehyde	90	(10 - 130)			SW846 8270C
	96	(10 - 130)	6.7	(0-30)	SW846 8270C
2,2'-oxybis (1-Chloropropane)	73	(13 - 124)			SW846 8270C
	78	(13 - 124)	6.6	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	65	(27 - 111)
	66	(27 - 111)
2-Fluorobiphenyl	64	(28 - 110)
	63	(28 - 110)
Terphenyl-d14	64	(37 - 119)
	67	(37 - 119)
Phenol-d5	39	(10 - 110)
	42	(10 - 110)
2-Fluorophenol	53	(10 - 110)
	60	(10 - 110)
2,4,6-Tribromophenol	74	(22 - 120)
	73	(22 - 120)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1GH-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1GJ-MSD
Date Sampled...: 04/28/11 10:05 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/13/11
Prep Batch #...: 1123031
Dilution Factor: 400

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**245 DIL,a**	**(36 - 110)**			**SW846 8270C**
	795 DIL,a	**(36 - 110)**	**25**	**(0-30)**	**SW846 8270C**
2,4-Dinitrotoluene	**0.0 DIL,a**	**(46 - 119)**			**SW846 8270C**
	0.0 DIL,a	**(46 - 119)**	**0.0**	**(0-30)**	**SW846 8270C**
Pyrene	**0.0 DIL,a**	**(54 - 115)**			**SW846 8270C**
	0.0 DIL,a	**(54 - 115)**	**0.0**	**(0-30)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**0.0 DIL,a**	**(25 - 119)**			**SW846 8270C**
	0.0 DIL,a	**(25 - 119)**	**0.0**	**(0-30)**	**SW846 8270C**
Pentachlorophenol	**0.0 DIL,a**	**(23 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(23 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Phenol	**0.0 DIL,a**	**(16 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(16 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Chlorophenol	**0.0 DIL,a**	**(26 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(26 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Chloro-3-methylphenol	**0.0 DIL,a**	**(33 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Nitrophenol	**0.0 DIL,a**	**(13 - 127)**			**SW846 8270C**
	0.0 DIL,a	**(13 - 127)**	**0.0**	**(0-30)**	**SW846 8270C**
Acenaphthylene	**0.0 DIL,a**	**(39 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(39 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Anthracene	**0.0 DIL,a**	**(46 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(46 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(a)anthracene	**0.0 DIL,a**	**(52 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(52 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(b)fluoranthene	**0.0 DIL,a**	**(33 - 114)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 114)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(k)fluoranthene	**0.0 DIL,a**	**(32 - 121)**			**SW846 8270C**
	0.0 DIL,a	**(32 - 121)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(ghi)perylene	**0.0 DIL,a**	**(34 - 116)**			**SW846 8270C**
	0.0 DIL,a	**(34 - 116)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzo(a)pyrene	**0.0 DIL,a**	**(33 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Chloroethoxy) methane	**0.0 DIL,a**	**(35 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(35 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1GH-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1GJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
bis(2-Chloroethyl)-ether	**0.0 DIL,a**	**(27 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(27 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Chloroisopropyl) ether	**0.0 DIL,a**	**(13 - 124)**			**SW846 8270C**
	0.0 DIL,a	**(13 - 124)**	**0.0**	**(0-30)**	**SW846 8270C**
bis(2-Ethylhexyl) phthalate	**0.0 DIL,a**	**(40 - 140)**			**SW846 8270C**
	0.0 DIL,a	**(40 - 140)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Bromophenyl phenyl ether	**0.0 DIL,a**	**(42 - 113)**			**SW846 8270C**
	0.0 DIL,a	**(42 - 113)**	**0.0**	**(0-30)**	**SW846 8270C**
Butyl benzyl phthalate	**0.0 DIL,a**	**(51 - 121)**			**SW846 8270C**
	0.0 DIL,a	**(51 - 121)**	**0.0**	**(0-30)**	**SW846 8270C**
Carbazole	**68 DIL**	**(49 - 114)**			**SW846 8270C**
	322 DIL,a	**(49 - 114)**	**22**	**(0-30)**	**SW846 8270C**
4-Chloroaniline	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2-Chloronaphthalene	**0.0 DIL,a**	**(34 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(34 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Chlorophenyl phenyl ether	0.0 DIL,a	(43 - 113)			SW846 8270C
	0.0 DIL,a	(43 - 113)	0.0	(0-30)	SW846 8270C
Chrysene	**0.0 DIL,a**	**(52 - 111)**			**SW846 8270C**
	0.0 DIL,a	**(52 - 111)**	**0.0**	**(0-30)**	**SW846 8270C**
Dibenz(a,h)anthracene	**0.0 DIL,a**	**(35 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(35 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
Dibenzofuran	**207 DIL,a**	**(41 - 110)**			**SW846 8270C**
	167 DIL,a	**(41 - 110)**	**4.1**	**(0-30)**	**SW846 8270C**
Di-n-butyl phthalate	**0.0 DIL,a**	**(50 - 117)**			**SW846 8270C**
	0.0 DIL,a	**(50 - 117)**	**0.0**	**(0-30)**	**SW846 8270C**
3,3'-Dichlorobenzidine	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dichlorophenol	**0.0 DIL,a**	**(30 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(30 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Diethyl phthalate	**0.0 DIL,a**	**(33 - 130)**			**SW846 8270C**
	0.0 DIL,a	**(33 - 130)**	**0.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1GH-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1GJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
2,4-Dimethylphenol	**0.0 DIL,a**	**(11 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(11 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Dimethyl phthalate	**0.0 DIL,a**	**(36 - 124)**			**SW846 8270C**
	0.0 DIL,a	**(36 - 124)**	**0.0**	**(0-30)**	**SW846 8270C**
4,6-Dinitro-2-methylphenol	0.0 DIL,a	(25 - 110)			SW846 8270C
	0.0 DIL,a	(25 - 110)	0.0	(0-30)	SW846 8270C
2,4-Dinitrophenol	0.0 DIL,a	(11 - 119)			SW846 8270C
	0.0 DIL,a	(11 - 119)	0.0	(0-30)	SW846 8270C
2,6-Dinitrotoluene	**0.0 DIL,a**	**(48 - 115)**			**SW846 8270C**
	0.0 DIL,a	**(48 - 115)**	**0.0**	**(0-30)**	**SW846 8270C**
Di-n-octyl phthalate	**0.0 DIL,a**	**(36 - 124)**			**SW846 8270C**
	0.0 DIL,a	**(36 - 124)**	**0.0**	**(0-30)**	**SW846 8270C**
Fluoranthene	**0.0 DIL,a**	**(53 - 111)**			**SW846 8270C**
	0.0 DIL,a	**(53 - 111)**	**0.0**	**(0-30)**	**SW846 8270C**
Fluorene	**157 DIL,a**	**(43 - 110)**			**SW846 8270C**
	209 DIL,a	**(43 - 110)**	**6.7**	**(0-30)**	**SW846 8270C**
Hexachlorobenzene	**0.0 DIL,a**	**(40 - 113)**			**SW846 8270C**
	0.0 DIL,a	**(40 - 113)**	**0.0**	**(0-30)**	**SW846 8270C**
Hexachlorocyclopenta-diene	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Hexachloroethane	**0.0 DIL,a**	**(10 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Indeno(1,2,3-cd)pyrene	**0.0 DIL,a**	**(36 - 116)**			**SW846 8270C**
	0.0 DIL,a	**(36 - 116)**	**0.0**	**(0-30)**	**SW846 8270C**
Isophorone	**0.0 DIL,a**	**(34 - 125)**			**SW846 8270C**
	0.0 DIL,a	**(34 - 125)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Methylnaphthalene	**425 DIL,a**	**(35 - 110)**			**SW846 8270C**
	588 DIL,a	**(35 - 110)**	**5.2**	**(0-30)**	**SW846 8270C**
2-Methylphenol	**0.0 DIL,a**	**(26 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(26 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Methylphenol	0.0 DIL,a	(25 - 110)			SW846 8270C
	0.0 DIL,a	(25 - 110)	0.0	(0-30)	SW846 8270C
2-Nitroaniline	**0.0 DIL,a**	**(31 - 129)**			**SW846 8270C**
	0.0 DIL,a	**(31 - 129)**	**0.0**	**(0-30)**	**SW846 8270C**
3-Nitroaniline	**0.0 DIL,a**	**(23 - 112)**			**SW846 8270C**
	0.0 DIL,a	**(23 - 112)**	**0.0**	**(0-30)**	**SW846 8270C**
4-Nitroaniline	**0.0 DIL,a**	**(26 - 115)**			**SW846 8270C**
	0.0 DIL,a	**(26 - 115)**	**0.0**	**(0-30)**	**SW846 8270C**

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1GH-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1GJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Nitrobenzene	**0.0 DIL,a**	**(26 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(26 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
2-Nitrophenol	**0.0 DIL,a**	**(30 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(30 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
N-Nitrosodiphenylamine	**0.0 DIL,a**	**(28 - 118)**			**SW846 8270C**
	0.0 DIL,a	**(28 - 118)**	**0.0**	**(0-30)**	**SW846 8270C**
Phenanthrene	**124 DIL,a**	**(47 - 110)**			**SW846 8270C**
	192 DIL,a	**(47 - 110)**	**9.7**	**(0-30)**	**SW846 8270C**
2,4,5-Trichloro- phenol	**0.0 DIL,a**	**(36 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(36 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
2,4,6-Trichloro- phenol	**0.0 DIL,a**	**(34 - 110)**			**SW846 8270C**
	0.0 DIL,a	**(34 - 110)**	**0.0**	**(0-30)**	**SW846 8270C**
Benzoic acid	0.0 DIL,a	(10 - 165)			SW846 8270C
	0.0 DIL,a	(10 - 165)	0.0	(0-30)	SW846 8270C
1,4-Dioxane	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Pyridine	0.0 DIL,a	(10 - 110)			SW846 8270C
	0.0 DIL,a	(10 - 110)	0.0	(0-30)	SW846 8270C
Atrazine	0.0 DIL,a	(50 - 130)			SW846 8270C
	0.0 DIL,a	(50 - 130)	0.0	(0-30)	SW846 8270C
Acetophenone	0.0 DIL,a	(50 - 130)			SW846 8270C
	0.0 DIL,a	(50 - 130)	0.0	(0-30)	SW846 8270C
1,1'-Biphenyl	152 DIL,a	(50 - 130)			SW846 8270C
	228 DIL,a	(50 - 130)	14	(0-30)	SW846 8270C
Caprolactam	0.0 DIL,a	(50 - 130)			SW846 8270C
	0.0 DIL,a	(50 - 130)	0.0	(0-30)	SW846 8270C
Aniline	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
Benzyl alcohol	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
N-Nitrosodimethylamine	**0.0 DIL,a**	**(10 - 130)**			**SW846 8270C**
	0.0 DIL,a	**(10 - 130)**	**0.0**	**(0-30)**	**SW846 8270C**
1-Methylnaphthalene	410 DIL,a	(10 - 130)			SW846 8270C
	554 DIL,a	(10 - 130)	7.2	(0-30)	SW846 8270C
1,2-Dinitrobenzene	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C
2,3,5,6-Tetrachlorophenol	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQMW1GH-MS **Matrix.....:** WATER
MS Lot-Sample #: A1E020423-007 MHQMW1GJ-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzaldehyde	0.0 DIL,a	(10 - 130)			SW846 8270C
	0.0 DIL,a	(10 - 130)	0.0	(0-30)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	0.0	(27 - 111)
	Qualifiers: DIL,*	
	0.0	(27 - 111)
	Qualifiers: DIL,*	
2-Fluorobiphenyl	0.0	(28 - 110)
	Qualifiers: DIL,*	
	0.0	(28 - 110)
	Qualifiers: DIL,*	
Terphenyl-d14	0.0	(37 - 119)
	Qualifiers: DIL,*	
	0.0	(37 - 119)
	Qualifiers: DIL,*	
Phenol-d5	0.0	(10 - 110)
	Qualifiers: DIL,*	
	0.0	(10 - 110)
	Qualifiers: DIL,*	
2-Fluorophenol	0.0	(10 - 110)
	Qualifiers: DIL,*	
	0.0	(10 - 110)
	Qualifiers: DIL,*	
2,4,6-Tribromophenol	0.0	(22 - 120)
	Qualifiers: DIL,*	
	0.0	(22 - 120)
	Qualifiers: DIL,*	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

a Spiked analyte recovery is outside stated control limits.

* Surrogate recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1AC-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1AD-MSD
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/05/11 **Analysis Date..:** 05/05/11
Prep Batch #...: 1126074
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Gasoline Range Organics (C6-C12)	**111**	**(63 - 143)**			**SW846 8015A MOD**
	107	**(63 - 143)**	**3.0**	**(0-20)**	**SW846 8015A MOD**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Trifluorotoluene	98	(10 - 150)
	101	(10 - 150)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A1E020418 **Work Order #...:** MHQKD1CK-MS **Matrix.....:** WG
MS Lot-Sample #: A1E020418-001 MHQKD1CL-MSD
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11
Prep Date.....: 05/03/11 **Analysis Date..:** 05/04/11
Prep Batch #...: 1123250
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
TPH (as Diesel)	**98**	**(70 - 130)**			**SW846 8015B**
	95	**(70 - 130)**	**3.4**	**(0-50)**	**SW846 8015B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
C9 (nonane)	66	(10 - 110)
	67	(10 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A1E020418 **Matrix.....:** SOLID
Date Sampled...: 04/29/11 09:00 **Date Received..:** 04/30/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1E020454-001 **Prep Batch #...:** 1123019						**% Moisture.....:** 11	
Arsenic	91	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1CJ
	91	(75 - 125)	0.48	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1CK
		Dilution Factor: 1					
Lead	96	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1CM
	80	(75 - 125)	10	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1CN
		Dilution Factor: 1					
Barium	107	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1A6
	91	(75 - 125)	12	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1A7
		Dilution Factor: 1					
Selenium	90	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1CQ
	89	(75 - 125)	0.01	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1CR
		Dilution Factor: 1					
Cadmium	88	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1A8
	89	(75 - 125)	1.0	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1A9
		Dilution Factor: 1					
Chromium	82	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1CA
	90	(75 - 125)	5.5	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1CC
		Dilution Factor: 1					
Silver	103	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQ2A1CD
	101	(75 - 125)	1.9	(0-20)	SW846 6010B	05/03-05/05/11	MHQ2A1CE
		Dilution Factor: 1					
Mercury	92	(11 - 192)			SW846 7471A	05/03/11	MHQ2A1CF
	78	(11 - 192)	16	(0-20)	SW846 7471A	05/03/11	MHQ2A1CG
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A1E020418 **Matrix.....:** WG
Date Sampled...: 04/28/11 09:17 **Date Received..:** 04/30/11

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A1E020418-001 **Prep Batch #...:** 1123015							
Arsenic	105	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1A5
	105	(75 - 125)	0.77	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1A6
		Dilution Factor: 1					
Barium	104	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1AQ
	104	(75 - 125)	0.47	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1AR
		Dilution Factor: 1					
Cadmium	105	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1AU
	106	(75 - 125)	1.2	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1AV
		Dilution Factor: 1					
Lead	104	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1A8
	105	(75 - 125)	0.86	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1A9
		Dilution Factor: 1					
Chromium	104	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1AX
	105	(75 - 125)	1.2	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1A0
		Dilution Factor: 1					
Selenium	109	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1CC
	110	(75 - 125)	0.79	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1CD
		Dilution Factor: 1					
Silver	113	(75 - 125)			SW846 6010B	05/03-05/05/11	MHQKD1A2
	113	(75 - 125)	0.06	(0-20)	SW846 6010B	05/03-05/05/11	MHQKD1A3
		Dilution Factor: 1					
Mercury	129	(69 - 134)			SW846 7470A	05/03-05/10/11	MHQKD1CF
	109	(69 - 134)	17	(0-20)	SW846 7470A	05/03-05/10/11	MHQKD1CG
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A1E020418 **Work Order #...:** MHQK1-SMP **Matrix.....:** SO
MHQK1-DUP
Date Sampled...: 04/22/11 10:10 **Date Received..:** 04/30/11
% Moisture.....: 13

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A1E020418-010		
	86.7	87.1	%	0.57	(0-20)	MCAWW 160.3 MOD	05/23-05/24/11	1143183

Dilution Factor: 1

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager:	Site Contact:	Lab Contact:	COC No:
Company Name: TetraTech	Guy Monford	Vicky Farmer	Denise Pohl	019437
Address: 250 W. Court St #200W	Telephone: 513-564-8350	Telephone: 513-348-2080	Telephone:	1 of 2 COCs
City/State/Zip: Cincinnati, OH 45202	Email: guy.monford@tetratech.com			
Phone: 513-241-0149				
Project Name: Mansfield Stamping Plant	Method of Shipment/Carrier: FedEx			
Project Number: 103519404.002	Shipping/Tracking No:			
PO #				

Turn Around Time (in BUS days)
TAT if different from below _____
☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day

Analyses

For lab use only
Walk-in client: ☐
Lab picking: ☐
Lab sampling: ☐
Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	VOCs	PAH	TPH GRO	Metals (DISS)	TPH DRO	Metals					Sample Specific Notes / Special Instructions:
MW [redacted]4-7	4/28/11	0917		X					X	X				X	Y	G	X	X	X	X	X						
MW [redacted]5-2s	4/28/11	1215		X					X	X				X													
MW 5-2d	4/28/11	1332		X					X	X				X													
MW 9-1	4/28/11	1330		X					X	X				X													
MW 5-4	4/28/11	1550		X					X	X				X													
[redacted]	[redacted]			[redacted]						X				[redacted]													NO sample KS 4/28/11
MW10-2	4/27/11	1541		X					X	X				X													
MW 2-1	4/27/11	1742		X					X	X				X													
MW 5-1	4/27/11	1955		X					X	X				X	Y	G	X	X	X	X	X						
Background-13-0422	4/22/11	1000				X								X	N	G						X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
V Farmer	TT	4/29 @ 1600			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Terry Burns	Company: TA	Date/Time: 4/30/11 930

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Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 019436
Address:	Telephone:	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below _____		Walk-in client ☐
Project Name: Mansfield Stamping	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab picking ☐
Project Number:	Shipping/Tracking No:			Lab sampling ☐
P O #				Job/SDG No:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other: TCa	Filtered Sample (Y/N)	Composite=C / Grab=G	Metals	VOCs	PAH	TPH GRO	TPH DRO	Metals (Diss)	Sample Specific Notes / Special Instructions:
Background-23-0422	4/22/11	1010				X								X	N	G	X						
MW 2-2	4/29/11	11:00		X					X	X				X				X	X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by: V Palmer	Company: TT	Date/Time: 4/29 @ 1600	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Jerry Burns	Company: TA	Date/Time: 4/30/11 930

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 410020418
North Canton Facility

Client Tetra Tech Project Mansfield Plant By: _____ (Signature)
Cooler Received on 4/30/11 Opened on _____
FedEx ☑ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other _____
TestAmerica Cooler # _____ Multiple Coolers ☑ Foam Box ☐ Client Cooler ☐ Other _____

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☑ Intact? Yes ☐ No ☐ NA ☑
   If YES, Quantity _____ Quantity Unsalvageable _____
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☑
   Were custody seals on the bottle(s)? Yes ☐ No ☑
   If YES, are there any exceptions? _____
2. Shippers' packing slip attached to the cooler(s)? Yes ☑ No ☐
3. Did custody papers accompany the sample(s)? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☐ None ☐ Other _____
6. Cooler temperature upon receipt _____ °C See back of form for multiple coolers/temps ☑
   METHOD: IR ☑ Other ☐ _____
   COOLANT: Wet Ice ☑ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☑ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☑ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☑ No ☐ NA ☐
10. Were correct bottle(s) used for the test(s) indicated? Yes ☑ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☑ No ☑ NA ☐
12. Sufficient quantity received to perform indicated analyses? Yes ☑ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☑ No ☐ Were VOAs on the COC? Yes ☑ No ☐

Contacted PM DSP/KSK Date 5/2/11 by DM via Verbal ☐ Voice Mail ☐ Other ☑
Concerning #14

14. CHAIN OF CUSTODY

The following discrepancies occurred:

- Rec'd 4 x 40 TB not on COC will log
- Rec'd 1 x 500 (diss metals) for ID DUPLICATE 4/28 not on COC
  - bottle = 5-2D on lid, already rec'd volume for MW5-2D.
  Rec'd 5 x 40 (3 x 40 VOC + 2 x 40 GRO) also not on COC. for Duplicate
- MS/MSD not marked on COC for MW-47 will log MS/MSD

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-($CH_3COO)_2ZN$/*NaOH*. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials
47	<2 <2	5-2-11	NP
5-2S	<2		
5-2D	<2		
9-1	<2		
5-4	<2		
10-2	<2		
2-1	<2		
5-1	<2		

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
2-2	12	5-2-11	AS
DUP	12	1	1

Cooler #	Temp. °C	Method	Coolant
C360	2.0°C	IR	ice
Q403	1.2°C	1	1
Q258	2.7°C		
4051	2.8°C		
Q115	2.1°C		
A580	4.6°C	1	1

Discrepancies Cont'd:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

END OF REPORT

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-258-1
Client Project/Site: MANSFIELD

For:
Ohio Environmental Protection Agency
Div of Emergency & Remedial Response
50 West Town Street
Suite 700
Columbus, Ohio 43215

Attn: Martin Smith

Denise Pohl

Authorized for release by:
06/20/2011 04:09:12 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

LINKS

Review your project results through TotalAccess

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

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Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 240-258-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Ohio Environmental Protection Agency

Project: MANSFIELD

Report Number: 240-258-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 16.7 C.

The following sample(s) was received at the laboratory outside the required temperature criteria: . The client was contacted regarding this issue, and the laboratory was instructed to <<CHOOSE ONE>> proceed with/analysis.

All other samples were received in good condition within temperature requirements.

TCLP VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples PRESS ROOM PINE FLOOR (240-258-1), SHIPPING PINE FLOOR (240-258-2), WEST SHIPPING COMPOSITE (240-258-3), TOOL ROOM PINE FLOOR (240-258-4), WEST SHIPPING PINE (240-258-5), SHIPPING COMPOSITE FLOOR (240-258-6) and PRESS ROOM PECAN FLOOR (240-258-7) were analyzed for TCLP volatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8260B. The samples were leached on 05/23/2011 and analyzed on 05/26/2011 and 05/27/2011.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

Method(s) 8260B: The following volatiles sample(s) was diluted due to foaming at the time of purging during the original sample analysis: PRESS ROOM PECAN FLOOR, PRESS ROOM PINE FLOOR, SHIPPING PINE FLOOR, TOOL ROOM PINE FLOOR, WEST SHIPPING COMPOSITE, WEST SHIPPING PINE. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

TCLP SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples PRESS ROOM PINE FLOOR (240-258-1), SHIPPING PINE FLOOR (240-258-2), WEST SHIPPING COMPOSITE (240-258-3), TOOL ROOM PINE FLOOR (240-258-4), WEST SHIPPING PINE (240-258-5), SHIPPING COMPOSITE FLOOR (240-258-6) and PRESS ROOM PECAN FLOOR (240-258-7) were analyzed for TCLP semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Methods 1311/8270C. The samples were leached on 05/23/2011, prepared on 05/24/2011 and 06/06/2011 and analyzed on 06/01/2011 and 06/09/2011.

Job ID: 240-258-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

Nitrobenzene-d5 (Surr) and Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for TOOL ROOM PINE FLOOR (240-258-4). Terphenyl-d14 (Surr) failed the surrogate recovery criteria low for SHIPPING COMPOSITE FLOOR (240-258-6). Refer to the QC report for details.

No other difficulties were encountered during the semivolatiles analyses.

All other quality control parameters were within the acceptance limits.

Method(s) 8270C: Internal standard responses were outside of acceptance limits for the following sample: TOOL ROOM PINE FLOOR. The sample shows evidence of matrix interference.

Method(s) 8270C: Elevated reporting limits due to sample matrix.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: PRESS ROOM PINE FLOOR. Elevated reporting limits (RLs) are provided.

Method(s) 8270C: Sample 240-258-B-3-H had acid surrogates recovered below acceptance criteria. Upon reextraction and reanalysis all QC met criteria, however, sample holding times had been exceeded. Both sets of data have been reported. <<EXPLANATION REQUIRED>>

No other analytical or quality issues were noted.

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are not reported: WEST SHIPPING PINE.

Method(s) 8082: Surrogate recovery for the following sample(s) was outside the upper control limit: SHIPPING PINE FLOOR. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: The following sample(s) was diluted due to the nature of the sample matrix analytes. As such, surrogate recoveries are not reported, and elevated reporting limits (RLs) are provided.

Method(s) 8082: Due to the level of dilution required for the following sample(s), surrogate recoveries are diluted: PRESS ROOM PINE FLOOR, SHIPPING COMPOSITE FLOOR, TOOL ROOM PINE FLOOR.

No other analytical or quality issues were noted.

TCLP METALS (ICP)

Samples PRESS ROOM PINE FLOOR (240-258-1), SHIPPING PINE FLOOR (240-258-2), WEST SHIPPING COMPOSITE (240-258-3), TOOL ROOM PINE FLOOR (240-258-4), WEST SHIPPING PINE (240-258-5), SHIPPING COMPOSITE FLOOR (240-258-6) and PRESS ROOM PECAN FLOOR (240-258-7) were analyzed for TCLP metals (ICP) in accordance with EPA SW-846 Methods 1311/ 6010B. The samples were leached on 05/23/2011, prepared on 05/25/2011 and analyzed on 05/26/2011.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

Barium and Selenium were detected in method blank LB 240-2532/1-A at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Barium was detected in method blank MB 240-2532/2-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

TCLP MERCURY

Samples PRESS ROOM PINE FLOOR (240-258-1), SHIPPING PINE FLOOR (240-258-2), WEST SHIPPING COMPOSITE (240-258-3), TOOL ROOM PINE FLOOR (240-258-4), WEST SHIPPING PINE (240-258-5), SHIPPING COMPOSITE FLOOR (240-258-6) and PRESS

Job ID: 240-258-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

ROOM PECAN FLOOR (240-258-7) were analyzed for TCLP mercury in accordance with EPA SW-846 Methods 1311/7470A. The samples were leached on 05/23/2011, prepared on 05/25/2011 and analyzed on 05/26/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

IGNITABILITY

Samples PRESS ROOM PINE FLOOR (240-258-1), SHIPPING PINE FLOOR (240-258-2), WEST SHIPPING COMPOSITE (240-258-3), TOOL ROOM PINE FLOOR (240-258-4), WEST SHIPPING PINE (240-258-5), SHIPPING COMPOSITE FLOOR (240-258-6) and PRESS ROOM PECAN FLOOR (240-258-7) were analyzed for ignitability in accordance with EPA SW-846 Method 1010. The samples were analyzed on 05/24/2011.

No difficulties were encountered during the ignitability analyses.

All quality control parameters were within the acceptance limits.

General Chemistry

Method(s) Moisture: The following samples were received with greater than 50% of holding time expired: PRESS ROOM PECAN FLOOR, PRESS ROOM PINE FLOOR, SHIPPING COMPOSITE FLOOR, SHIPPING PINE FLOOR, TOOL ROOM PINE FLOOR, WEST SHIPPING COMPOSITE, WEST SHIPPING PINE. As such, the laboratory had insufficient time remaining to perform the analysis within holding time.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Method Summary

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
6010B	Metals (ICP)	SW846	TAL NC
7470A	Mercury (CVAA)	SW846	TAL NC
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL NC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-258-1	PRESS ROOM PINE FLOOR	Solid	05/13/11 12:15	05/17/11 09:40
240-258-2	SHIPPING PINE FLOOR	Solid	05/13/11 12:20	05/17/11 09:40
240-258-3	WEST SHIPPING COMPOSITE	Solid	05/13/11 12:25	05/17/11 09:40
240-258-4	TOOL ROOM PINE FLOOR	Solid	05/13/11 12:10	05/17/11 09:40
240-258-5	WEST SHIPPING PINE	Solid	05/13/11 12:25	05/17/11 09:40
240-258-6	SHIPPING COMPOSITE FLOOR	Solid	05/13/11 12:20	05/17/11 09:40
240-258-7	PRESS ROOM PECAN FLOOR	Solid	05/13/11 12:15	05/17/11 09:40

Client Sample ID: PRESS ROOM PINE FLOOR — Lab Sample ID: 240-258-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.026	J	0.20	0.0038	mg/L	5		8270C	TCLP
Arsenic	0.0033	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.68	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.012	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.046	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.056	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.010	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: SHIPPING PINE FLOOR — Lab Sample ID: 240-258-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	1.5		0.80	0.015	mg/L	20		8270C	TCLP
2-Methylphenol	0.46		0.080	0.016	mg/L	20		8270C	TCLP
Pyridine	0.030	J	0.40	0.0070	mg/L	20		8270C	TCLP
Arsenic	0.0057	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.13	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.011	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.022	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.015	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.011	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: WEST SHIPPING COMPOSITE — Lab Sample ID: 240-258-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.0055	J H	0.040	0.00075	mg/L	1		8270C	TCLP
2-Methylphenol	0.0025	J H	0.0040	0.00080	mg/L	1		8270C	TCLP
Pyridine	0.00073	J H	0.020	0.00035	mg/L	1		8270C	TCLP
Arsenic	0.0033	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.17	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0014	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.0063	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.0059	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0068	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: TOOL ROOM PINE FLOOR — Lab Sample ID: 240-258-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.062	J	0.20	0.0038	mg/L	5		8270C	TCLP
2-Methylphenol	0.014	J	0.020	0.0040	mg/L	5		8270C	TCLP
Pyridine	0.0057	J	0.10	0.0018	mg/L	5		8270C	TCLP
Arsenic	0.0071	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.066	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.015	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.087	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.011	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0083	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Client Sample ID: TOOL ROOM PINE FLOOR (Continued) — Lab Sample ID: 240-258-4

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: WEST SHIPPING PINE — Lab Sample ID: 240-258-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	2.1		0.80	0.015	mg/L	20		8270C	TCLP
2-Methylphenol	0.48		0.080	0.016	mg/L	20		8270C	TCLP
Aroclor 1260	18000		2200	1100	ug/Kg	10	☼	8082	Total/NA
Arsenic	0.0058	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.12	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.016	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.026	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.063	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.011	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: SHIPPING COMPOSITE FLOOR — Lab Sample ID: 240-258-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Pyridine	0.0088	J	0.080	0.0014	mg/L	4		8270C	TCLP
Arsenic	0.0092	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.25	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.0068	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.0049	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.0048	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.0071	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: PRESS ROOM PECAN FLOOR — Lab Sample ID: 240-258-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
3 & 4 Methylphenol	0.016	J	0.20	0.0038	mg/L	5		8270C	TCLP
Arsenic	0.011	J	0.50	0.0032	mg/L	1		6010B	TCLP
Barium	0.19	J B	10	0.00067	mg/L	1		6010B	TCLP
Cadmium	0.041	J	0.10	0.00066	mg/L	1		6010B	TCLP
Chromium	0.030	J	0.50	0.0022	mg/L	1		6010B	TCLP
Lead	0.093	J	0.50	0.0019	mg/L	1		6010B	TCLP
Selenium	0.012	J B	0.25	0.0041	mg/L	1		6010B	TCLP

Analyte	Result	Qualifier	RL	RL	Unit	Dil Fac	D	Method	Prep Type
Flashpoint	>180		1.0	1.0	Degrees F	1		1010	Total/NA

Client Sample ID: PRESS ROOM PINE FLOOR
Date Collected: 05/13/11 12:15
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/26/11 22:10	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/26/11 22:10	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/26/11 22:10	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/26/11 22:10	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/26/11 22:10	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/26/11 22:10	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/26/11 22:10	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/26/11 22:10	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/26/11 22:10	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/26/11 22:10	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 121*		*05/26/11 22:10*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 124*		*05/26/11 22:10*	*1*
Toluene-d8 (Surr)	*100*		*90 - 115*		*05/26/11 22:10*	*1*
Dibromofluoromethane (Surr)	*100*		*84 - 128*		*05/26/11 22:10*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.020	U	0.020	0.0017	mg/L		05/24/11 09:42	06/01/11 19:37	5
2,4,5-Trichlorophenol	0.10	U	0.10	0.0015	mg/L		05/24/11 09:42	06/01/11 19:37	5
2,4,6-Trichlorophenol	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 19:37	5
2,4-Dinitrotoluene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 19:37	5
Hexachlorobenzene	0.10	U	0.10	0.00050	mg/L		05/24/11 09:42	06/01/11 19:37	5
Hexachlorobutadiene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 19:37	5
Hexachloroethane	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 19:37	5
3 & 4 Methylphenol	**0.026**	**J**	0.20	0.0038	mg/L		05/24/11 09:42	06/01/11 19:37	5
2-Methylphenol	0.020	U	0.020	0.0040	mg/L		05/24/11 09:42	06/01/11 19:37	5
Nitrobenzene	0.020	U	0.020	0.00020	mg/L		05/24/11 09:42	06/01/11 19:37	5
Pentachlorophenol	0.20	U	0.20	0.012	mg/L		05/24/11 09:42	06/01/11 19:37	5
Pyridine	0.10	U	0.10	0.0018	mg/L		05/24/11 09:42	06/01/11 19:37	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*22 - 110*	*05/24/11 09:42*	*06/01/11 19:37*	*5*
2-Fluorophenol (Surr)	*23*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:37*	*5*
2,4,6-Tribromophenol (Surr)	*66*		*17 - 117*	*05/24/11 09:42*	*06/01/11 19:37*	*5*
Nitrobenzene-d5 (Surr)	*48*		*29 - 111*	*05/24/11 09:42*	*06/01/11 19:37*	*5*
Phenol-d5 (Surr)	*50*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:37*	*5*
Terphenyl-d14 (Surr)	*48*		*40 - 119*	*05/24/11 09:42*	*06/01/11 19:37*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	2100	U	2100	1400	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1221	2100	U	2100	1000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1232	2100	U	2100	910	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1242	2100	U	2100	840	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1248	2100	U	2100	1100	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1254	2100	U	2100	1100	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10
Aroclor 1260	2100	U	2100	1100	ug/Kg	☼	05/23/11 13:53	05/27/11 21:03	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*170*		*10 - 196*	*05/23/11 13:53*	*05/27/11 21:03*	*10*

Client Sample ID: PRESS ROOM PINE FLOOR

Lab Sample ID: 240-258-1

Date Collected: 05/13/11 12:15

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 92.6

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*X*	*10 - 199*	*05/23/11 13:53*	*05/27/11 21:03*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0033**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 22:42	1
Barium	**0.68**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 22:42	1
Cadmium	**0.012**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 22:42	1
Chromium	**0.046**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:42	1
Lead	**0.056**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 22:42	1
Selenium	**0.010**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 22:42	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:42	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:05	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: SHIPPING PINE FLOOR

Lab Sample ID: 240-258-2

Date Collected: 05/13/11 12:20

Matrix: Solid

Date Received: 05/17/11 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/26/11 22:35	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/26/11 22:35	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/26/11 22:35	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/26/11 22:35	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/26/11 22:35	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/26/11 22:35	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/26/11 22:35	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/26/11 22:35	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/26/11 22:35	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/26/11 22:35	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 121*		*05/26/11 22:35*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 124*		*05/26/11 22:35*	*1*
Toluene-d8 (Surr)	*100*		*90 - 115*		*05/26/11 22:35*	*1*
Dibromofluoromethane (Surr)	*98*		*84 - 128*		*05/26/11 22:35*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.080	U	0.080	0.0068	mg/L		05/24/11 09:42	06/01/11 19:18	20
2,4,5-Trichlorophenol	0.40	U	0.40	0.0060	mg/L		05/24/11 09:42	06/01/11 19:18	20
2,4,6-Trichlorophenol	0.40	U	0.40	0.016	mg/L		05/24/11 09:42	06/01/11 19:18	20
2,4-Dinitrotoluene	0.40	U	0.40	0.0054	mg/L		05/24/11 09:42	06/01/11 19:18	20
Hexachlorobenzene	0.40	U	0.40	0.0020	mg/L		05/24/11 09:42	06/01/11 19:18	20
Hexachlorobutadiene	0.40	U	0.40	0.0054	mg/L		05/24/11 09:42	06/01/11 19:18	20

Client Sample ID: SHIPPING PINE FLOOR
Date Collected: 05/13/11 12:20
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-2
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.40	U	0.40	0.016	mg/L		05/24/11 09:42	06/01/11 19:18	20
3 & 4 Methylphenol	**1.5**		0.80	0.015	mg/L		05/24/11 09:42	06/01/11 19:18	20
2-Methylphenol	**0.46**		0.080	0.016	mg/L		05/24/11 09:42	06/01/11 19:18	20
Nitrobenzene	0.080	U	0.080	0.00080	mg/L		05/24/11 09:42	06/01/11 19:18	20
Pentachlorophenol	0.80	U	0.80	0.048	mg/L		05/24/11 09:42	06/01/11 19:18	20
Pyridine	**0.030**	**J**	0.40	0.0070	mg/L		05/24/11 09:42	06/01/11 19:18	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*47*		*22 - 110*	*05/24/11 09:42*	*06/01/11 19:18*	*20*
2-Fluorophenol (Surr)	*39*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:18*	*20*
2,4,6-Tribromophenol (Surr)	*57*		*17 - 117*	*05/24/11 09:42*	*06/01/11 19:18*	*20*
Nitrobenzene-d5 (Surr)	*44*		*29 - 111*	*05/24/11 09:42*	*06/01/11 19:18*	*20*
Phenol-d5 (Surr)	*51*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:18*	*20*
Terphenyl-d14 (Surr)	*56*		*40 - 119*	*05/24/11 09:42*	*06/01/11 19:18*	*20*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	210	U	210	140	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1221	210	U	210	100	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1232	210	U	210	91	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1242	210	U	210	85	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1248	210	U	210	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1254	210	U	210	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1
Aroclor 1260	210	U	210	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:14	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*323*	*X*	*10 - 196*	*05/23/11 13:53*	*05/26/11 18:14*	*1*
DCB Decachlorobiphenyl	*63*		*10 - 199*	*05/23/11 13:53*	*05/26/11 18:14*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0057**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 22:48	1
Barium	**0.13**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 22:48	1
Cadmium	**0.011**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 22:48	1
Chromium	**0.022**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:48	1
Lead	**0.015**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 22:48	1
Selenium	**0.011**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 22:48	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:48	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:07	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: WEST SHIPPING COMPOSITE
Date Collected: 05/13/11 12:25
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/26/11 23:02	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/26/11 23:02	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/26/11 23:02	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/26/11 23:02	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/26/11 23:02	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/26/11 23:02	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/26/11 23:02	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/26/11 23:02	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/26/11 23:02	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/26/11 23:02	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*		*05/26/11 23:02*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*		*05/26/11 23:02*	*1*
Toluene-d8 (Surr)	*99*		*90 - 115*		*05/26/11 23:02*	*1*
Dibromofluoromethane (Surr)	*100*		*84 - 128*		*05/26/11 23:02*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U H	0.0040	0.00034	mg/L		06/06/11 13:44	06/09/11 20:40	1
2,4,5-Trichlorophenol	0.020	U H	0.020	0.00030	mg/L		06/06/11 13:44	06/09/11 20:40	1
2,4,6-Trichlorophenol	0.020	U H	0.020	0.00080	mg/L		06/06/11 13:44	06/09/11 20:40	1
2,4-Dinitrotoluene	0.020	U H	0.020	0.00027	mg/L		06/06/11 13:44	06/09/11 20:40	1
Hexachlorobenzene	0.020	U H	0.020	0.00010	mg/L		06/06/11 13:44	06/09/11 20:40	1
Hexachlorobutadiene	0.020	U H	0.020	0.00027	mg/L		06/06/11 13:44	06/09/11 20:40	1
Hexachloroethane	0.020	U H	0.020	0.00080	mg/L		06/06/11 13:44	06/09/11 20:40	1
3 & 4 Methylphenol	**0.0055**	**J H**	0.040	0.00075	mg/L		06/06/11 13:44	06/09/11 20:40	1
2-Methylphenol	**0.0025**	**J H**	0.0040	0.00080	mg/L		06/06/11 13:44	06/09/11 20:40	1
Nitrobenzene	0.0040	U H	0.0040	0.000040	mg/L		06/06/11 13:44	06/09/11 20:40	1
Pentachlorophenol	0.040	U H	0.040	0.0024	mg/L		06/06/11 13:44	06/09/11 20:40	1
Pyridine	**0.00073**	**J H**	0.020	0.00035	mg/L		06/06/11 13:44	06/09/11 20:40	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*22 - 110*	*06/06/11 13:44*	*06/09/11 20:40*	*1*
2-Fluorophenol (Surr)	*56*		*10 - 110*	*06/06/11 13:44*	*06/09/11 20:40*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*17 - 117*	*06/06/11 13:44*	*06/09/11 20:40*	*1*
Nitrobenzene-d5 (Surr)	*58*		*29 - 111*	*06/06/11 13:44*	*06/09/11 20:40*	*1*
Phenol-d5 (Surr)	*53*		*10 - 110*	*06/06/11 13:44*	*06/09/11 20:40*	*1*
Terphenyl-d14 (Surr)	*71*		*40 - 119*	*06/06/11 13:44*	*06/09/11 20:40*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	200	U	200	130	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1221	200	U	200	99	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1232	200	U	200	87	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1242	200	U	200	81	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1248	200	U	200	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1254	200	U	200	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1
Aroclor 1260	200	U	200	110	ug/Kg	☼	05/23/11 13:53	05/26/11 18:28	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*10 - 196*	*05/23/11 13:53*	*05/26/11 18:28*	*1*

Client Sample ID: WEST SHIPPING COMPOSITE

Lab Sample ID: 240-258-3

Date Collected: 05/13/11 12:25
Matrix: Solid
Date Received: 05/17/11 09:40
Percent Solids: 96.1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*88*		*10 - 199*	*05/23/11 13:53*	*05/26/11 18:28*	*1*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0033**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 22:54	1
Barium	**0.17**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 22:54	1
Cadmium	**0.0014**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 22:54	1
Chromium	**0.0063**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:54	1
Lead	**0.0059**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 22:54	1
Selenium	**0.0068**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 22:54	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:54	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:08	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: TOOL ROOM PINE FLOOR

Lab Sample ID: 240-258-4

Date Collected: 05/13/11 12:10
Matrix: Solid
Date Received: 05/17/11 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/26/11 23:27	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/26/11 23:27	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/26/11 23:27	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/26/11 23:27	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/26/11 23:27	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/26/11 23:27	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/26/11 23:27	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/26/11 23:27	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/26/11 23:27	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/26/11 23:27	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*		*05/26/11 23:27*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*		*05/26/11 23:27*	*1*
Toluene-d8 (Surr)	*98*		*90 - 115*		*05/26/11 23:27*	*1*
Dibromofluoromethane (Surr)	*99*		*84 - 128*		*05/26/11 23:27*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.020	U	0.020	0.0017	mg/L		05/24/11 09:42	06/01/11 19:55	5
2,4,5-Trichlorophenol	0.10	U	0.10	0.0015	mg/L		05/24/11 09:42	06/01/11 19:55	5
2,4,6-Trichlorophenol	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 19:55	5
2,4-Dinitrotoluene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 19:55	5
Hexachlorobenzene	0.10	U	0.10	0.00050	mg/L		05/24/11 09:42	06/01/11 19:55	5
Hexachlorobutadiene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 19:55	5

Client Sample ID: TOOL ROOM PINE FLOOR
Date Collected: 05/13/11 12:10
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-4
Matrix: Solid

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 19:55	5
3 & 4 Methylphenol	**0.062**	**J**	0.20	0.0038	mg/L		05/24/11 09:42	06/01/11 19:55	5
2-Methylphenol	**0.014**	**J**	0.020	0.0040	mg/L		05/24/11 09:42	06/01/11 19:55	5
Nitrobenzene	0.020	U	0.020	0.00020	mg/L		05/24/11 09:42	06/01/11 19:55	5
Pentachlorophenol	0.20	U	0.20	0.012	mg/L		05/24/11 09:42	06/01/11 19:55	5
Pyridine	**0.0057**	**J**	0.10	0.0018	mg/L		05/24/11 09:42	06/01/11 19:55	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*22 - 110*	*05/24/11 09:42*	*06/01/11 19:55*	*5*
2-Fluorophenol (Surr)	*41*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:55*	*5*
2,4,6-Tribromophenol (Surr)	*63*		*17 - 117*	*05/24/11 09:42*	*06/01/11 19:55*	*5*
Nitrobenzene-d5 (Surr)	*7*	*X*	*29 - 111*	*05/24/11 09:42*	*06/01/11 19:55*	*5*
Phenol-d5 (Surr)	*76*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:55*	*5*
Terphenyl-d14 (Surr)	*31*	*X*	*40 - 119*	*05/24/11 09:42*	*06/01/11 19:55*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	11000	U	11000	7000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1221	11000	U	11000	5400	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1232	11000	U	11000	4700	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1242	11000	U	11000	4400	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1248	11000	U	11000	5700	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1254	11000	U	11000	5700	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50
Aroclor 1260	11000	U	11000	5700	ug/Kg	☼	05/23/11 13:53	05/27/11 21:18	50

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*1412*	*X*	*10 - 196*	*05/23/11 13:53*	*05/27/11 21:18*	*50*
DCB Decachlorobiphenyl	*676*	*p X*	*10 - 199*	*05/23/11 13:53*	*05/27/11 21:18*	*50*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0071**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 23:00	1
Barium	**0.066**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 23:00	1
Cadmium	**0.015**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 23:00	1
Chromium	**0.087**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:00	1
Lead	**0.011**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 23:00	1
Selenium	**0.0083**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 23:00	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:00	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:09	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: WEST SHIPPING PINE
Date Collected: 05/13/11 12:25
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/26/11 23:52	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/26/11 23:52	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/26/11 23:52	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/26/11 23:52	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/26/11 23:52	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/26/11 23:52	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/26/11 23:52	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/26/11 23:52	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/26/11 23:52	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/26/11 23:52	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*		*05/26/11 23:52*	*1*
4-Bromofluorobenzene (Surr)	*85*		*70 - 124*		*05/26/11 23:52*	*1*
Toluene-d8 (Surr)	*100*		*90 - 115*		*05/26/11 23:52*	*1*
Dibromofluoromethane (Surr)	*99*		*84 - 128*		*05/26/11 23:52*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.080	U	0.080	0.0068	mg/L		05/24/11 09:42	06/01/11 19:00	20
2,4,5-Trichlorophenol	0.40	U	0.40	0.0060	mg/L		05/24/11 09:42	06/01/11 19:00	20
2,4,6-Trichlorophenol	0.40	U	0.40	0.016	mg/L		05/24/11 09:42	06/01/11 19:00	20
2,4-Dinitrotoluene	0.40	U	0.40	0.0054	mg/L		05/24/11 09:42	06/01/11 19:00	20
Hexachlorobenzene	0.40	U	0.40	0.0020	mg/L		05/24/11 09:42	06/01/11 19:00	20
Hexachlorobutadiene	0.40	U	0.40	0.0054	mg/L		05/24/11 09:42	06/01/11 19:00	20
Hexachloroethane	0.40	U	0.40	0.016	mg/L		05/24/11 09:42	06/01/11 19:00	20
3 & 4 Methylphenol	**2.1**		0.80	0.015	mg/L		05/24/11 09:42	06/01/11 19:00	20
2-Methylphenol	**0.48**		0.080	0.016	mg/L		05/24/11 09:42	06/01/11 19:00	20
Nitrobenzene	0.080	U	0.080	0.00080	mg/L		05/24/11 09:42	06/01/11 19:00	20
Pentachlorophenol	0.80	U	0.80	0.048	mg/L		05/24/11 09:42	06/01/11 19:00	20
Pyridine	0.40	U	0.40	0.0070	mg/L		05/24/11 09:42	06/01/11 19:00	20

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*22 - 110*	*05/24/11 09:42*	*06/01/11 19:00*	*20*
2-Fluorophenol (Surr)	*36*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:00*	*20*
2,4,6-Tribromophenol (Surr)	*73*		*17 - 117*	*05/24/11 09:42*	*06/01/11 19:00*	*20*
Nitrobenzene-d5 (Surr)	*49*		*29 - 111*	*05/24/11 09:42*	*06/01/11 19:00*	*20*
Phenol-d5 (Surr)	*67*		*10 - 110*	*05/24/11 09:42*	*06/01/11 19:00*	*20*
Terphenyl-d14 (Surr)	*60*		*40 - 119*	*05/24/11 09:42*	*06/01/11 19:00*	*20*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	2200	U	2200	1400	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1221	2200	U	2200	1000	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1232	2200	U	2200	920	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1242	2200	U	2200	850	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1248	2200	U	2200	1100	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1254	2200	U	2200	1100	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10
Aroclor 1260	**18000**		2200	1100	ug/Kg	☼	05/23/11 13:53	05/26/11 18:57	10

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*10 - 196*	*05/23/11 13:53*	*05/26/11 18:57*	*10*

Client Sample ID: WEST SHIPPING PINE

Lab Sample ID: 240-258-5

Date Collected: 05/13/11 12:25

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 91.2

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*X*	*10 - 199*	*05/23/11 13:53*	*05/26/11 18:57*	*10*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0058**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 23:18	1
Barium	**0.12**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 23:18	1
Cadmium	**0.016**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 23:18	1
Chromium	**0.026**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:18	1
Lead	**0.063**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 23:18	1
Selenium	**0.011**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 23:18	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:18	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:13	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: SHIPPING COMPOSITE FLOOR

Lab Sample ID: 240-258-6

Date Collected: 05/13/11 12:20

Matrix: Solid

Date Received: 05/17/11 09:40

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.00019	mg/L			05/27/11 00:18	1
1,2-Dichloroethane	0.025	U	0.025	0.00022	mg/L			05/27/11 00:18	1
2-Butanone (MEK)	0.25	U	0.25	0.00057	mg/L			05/27/11 00:18	1
Benzene	0.025	U	0.025	0.00013	mg/L			05/27/11 00:18	1
Carbon tetrachloride	0.025	U	0.025	0.00013	mg/L			05/27/11 00:18	1
Chlorobenzene	0.025	U	0.025	0.00015	mg/L			05/27/11 00:18	1
Chloroform	0.025	U	0.025	0.00016	mg/L			05/27/11 00:18	1
Tetrachloroethene	0.025	U	0.025	0.00029	mg/L			05/27/11 00:18	1
Trichloroethene	0.025	U	0.025	0.00017	mg/L			05/27/11 00:18	1
Vinyl chloride	0.025	U	0.025	0.00022	mg/L			05/27/11 00:18	1

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*		*05/27/11 00:18*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 124*		*05/27/11 00:18*	*1*
Toluene-d8 (Surr)	*98*		*90 - 115*		*05/27/11 00:18*	*1*
Dibromofluoromethane (Surr)	*100*		*84 - 128*		*05/27/11 00:18*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.016	U	0.016	0.0014	mg/L		05/24/11 09:42	06/01/11 20:14	4
2,4,5-Trichlorophenol	0.080	U	0.080	0.0012	mg/L		05/24/11 09:42	06/01/11 20:14	4
2,4,6-Trichlorophenol	0.080	U	0.080	0.0032	mg/L		05/24/11 09:42	06/01/11 20:14	4
2,4-Dinitrotoluene	0.080	U	0.080	0.0011	mg/L		05/24/11 09:42	06/01/11 20:14	4
Hexachlorobenzene	0.080	U	0.080	0.00040	mg/L		05/24/11 09:42	06/01/11 20:14	4
Hexachlorobutadiene	0.080	U	0.080	0.0011	mg/L		05/24/11 09:42	06/01/11 20:14	4

Client Sample ID: SHIPPING COMPOSITE FLOOR
Lab Sample ID: 240-258-6
Date Collected: 05/13/11 12:20
Matrix: Solid
Date Received: 05/17/11 09:40

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	0.080	U	0.080	0.0032	mg/L		05/24/11 09:42	06/01/11 20:14	4
3 & 4 Methylphenol	0.16	U	0.16	0.0030	mg/L		05/24/11 09:42	06/01/11 20:14	4
2-Methylphenol	0.016	U	0.016	0.0032	mg/L		05/24/11 09:42	06/01/11 20:14	4
Nitrobenzene	0.016	U	0.016	0.00016	mg/L		05/24/11 09:42	06/01/11 20:14	4
Pentachlorophenol	0.16	U	0.16	0.0096	mg/L		05/24/11 09:42	06/01/11 20:14	4
Pyridine	**0.0088**	**J**	0.080	0.0014	mg/L		05/24/11 09:42	06/01/11 20:14	4

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*44*		*22 - 110*	*05/24/11 09:42*	*06/01/11 20:14*	*4*
2-Fluorophenol (Surr)	*32*		*10 - 110*	*05/24/11 09:42*	*06/01/11 20:14*	*4*
2,4,6-Tribromophenol (Surr)	*51*		*17 - 117*	*05/24/11 09:42*	*06/01/11 20:14*	*4*
Nitrobenzene-d5 (Surr)	*43*		*29 - 111*	*05/24/11 09:42*	*06/01/11 20:14*	*4*
Phenol-d5 (Surr)	*51*		*10 - 110*	*05/24/11 09:42*	*06/01/11 20:14*	*4*
Terphenyl-d14 (Surr)	*38*	*X*	*40 - 119*	*05/24/11 09:42*	*06/01/11 20:14*	*4*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	20000	U	20000	13000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1221	20000	U	20000	9700	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1232	20000	U	20000	8500	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1242	20000	U	20000	7900	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1248	20000	U	20000	10000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1254	20000	U	20000	10000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100
Aroclor 1260	20000	U	20000	10000	ug/Kg	☼	05/23/11 13:53	05/27/11 21:32	100

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*10 - 196*	*05/23/11 13:53*	*05/27/11 21:32*	*100*
DCB Decachlorobiphenyl	*0*	*X*	*10 - 199*	*05/23/11 13:53*	*05/27/11 21:32*	*100*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.0092**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 23:25	1
Barium	**0.25**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 23:25	1
Cadmium	**0.0068**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 23:25	1
Chromium	**0.0049**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:25	1
Lead	**0.0048**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 23:25	1
Selenium	**0.0071**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 23:25	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:25	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:14	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Client Sample ID: PRESS ROOM PECAN FLOOR
Date Collected: 05/13/11 12:15
Date Received: 05/17/11 09:40

Lab Sample ID: 240-258-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.050	U	0.050	0.00038	mg/L			05/27/11 00:43	1
1,2-Dichloroethane	0.050	U	0.050	0.00044	mg/L			05/27/11 00:43	1
2-Butanone (MEK)	0.50	U	0.50	0.0011	mg/L			05/27/11 00:43	1
Benzene	0.050	U	0.050	0.00026	mg/L			05/27/11 00:43	1
Carbon tetrachloride	0.050	U	0.050	0.00026	mg/L			05/27/11 00:43	1
Chlorobenzene	0.050	U	0.050	0.00030	mg/L			05/27/11 00:43	1
Chloroform	0.050	U	0.050	0.00032	mg/L			05/27/11 00:43	1
Tetrachloroethene	0.050	U	0.050	0.00058	mg/L			05/27/11 00:43	1
Trichloroethene	0.050	U	0.050	0.00034	mg/L			05/27/11 00:43	1
Vinyl chloride	0.050	U	0.050	0.00044	mg/L			05/27/11 00:43	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*80 - 121*		*05/27/11 00:43*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*		*05/27/11 00:43*	*1*
Toluene-d8 (Surr)	*100*		*90 - 115*		*05/27/11 00:43*	*1*
Dibromofluoromethane (Surr)	*100*		*84 - 128*		*05/27/11 00:43*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.020	U	0.020	0.0017	mg/L		05/24/11 09:42	06/01/11 20:32	5
2,4,5-Trichlorophenol	0.10	U	0.10	0.0015	mg/L		05/24/11 09:42	06/01/11 20:32	5
2,4,6-Trichlorophenol	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 20:32	5
2,4-Dinitrotoluene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 20:32	5
Hexachlorobenzene	0.10	U	0.10	0.00050	mg/L		05/24/11 09:42	06/01/11 20:32	5
Hexachlorobutadiene	0.10	U	0.10	0.0014	mg/L		05/24/11 09:42	06/01/11 20:32	5
Hexachloroethane	0.10	U	0.10	0.0040	mg/L		05/24/11 09:42	06/01/11 20:32	5
3 & 4 Methylphenol	**0.016**	**J**	0.20	0.0038	mg/L		05/24/11 09:42	06/01/11 20:32	5
2-Methylphenol	0.020	U	0.020	0.0040	mg/L		05/24/11 09:42	06/01/11 20:32	5
Nitrobenzene	0.020	U	0.020	0.00020	mg/L		05/24/11 09:42	06/01/11 20:32	5
Pentachlorophenol	0.20	U	0.20	0.012	mg/L		05/24/11 09:42	06/01/11 20:32	5
Pyridine	0.10	U	0.10	0.0018	mg/L		05/24/11 09:42	06/01/11 20:32	5

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*22 - 110*	*05/24/11 09:42*	*06/01/11 20:32*	*5*
2-Fluorophenol (Surr)	*37*		*10 - 110*	*05/24/11 09:42*	*06/01/11 20:32*	*5*
2,4,6-Tribromophenol (Surr)	*67*		*17 - 117*	*05/24/11 09:42*	*06/01/11 20:32*	*5*
Nitrobenzene-d5 (Surr)	*54*		*29 - 111*	*05/24/11 09:42*	*06/01/11 20:32*	*5*
Phenol-d5 (Surr)	*74*		*10 - 110*	*05/24/11 09:42*	*06/01/11 20:32*	*5*
Terphenyl-d14 (Surr)	*43*		*40 - 119*	*05/24/11 09:42*	*06/01/11 20:32*	*5*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	110000	U	110000	69000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1221	110000	U	110000	53000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1232	110000	U	110000	46000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1242	110000	U	110000	43000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1248	110000	U	110000	56000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1254	110000	U	110000	56000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500
Aroclor 1260	110000	U	110000	56000	ug/Kg	☼	05/23/11 13:53	05/31/11 10:23	500

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*0*	*X*	*10 - 196*	*05/23/11 13:53*	*05/31/11 10:23*	*500*

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Client Sample ID: PRESS ROOM PECAN FLOOR — **Lab Sample ID: 240-258-7**
Date Collected: 05/13/11 12:15 — **Matrix: Solid**
Date Received: 05/17/11 09:40 — **Percent Solids: 91.8**

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	% Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*0*	*X*	*10 - 199*	*05/23/11 13:53*	*05/31/11 10:23*	*500*

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**0.011**	**J**	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 23:31	1
Barium	**0.19**	**J B**	10	0.00067	mg/L		05/25/11 07:43	05/26/11 23:31	1
Cadmium	**0.041**	**J**	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 23:31	1
Chromium	**0.030**	**J**	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:31	1
Lead	**0.093**	**J**	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 23:31	1
Selenium	**0.012**	**J B**	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 23:31	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 23:31	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 08:16	1

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>180**		1.0	1.0	Degrees F			05/24/11 09:00	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(90-115)	(84-128)
LCS 240-2776/7	Lab Control Sample	96	91	102	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(80-121)	(70-124)	(90-115)	(84-128)
240-258-1	PRESS ROOM PINE FLOOR	92	82	100	100
240-258-2	SHIPPING PINE FLOOR	92	82	100	98
240-258-3	WEST SHIPPING COMPOSITE	94	84	99	100
240-258-4	TOOL ROOM PINE FLOOR	96	84	98	99
240-258-5	WEST SHIPPING PINE	94	85	100	99
240-258-6	SHIPPING COMPOSITE FLOOR	94	82	98	100
240-258-7	PRESS ROOM PECAN FLOOR	94	84	100	100
LB 240-2393/14-A LB	Method Blank	92	84	102	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(17-117)	(29-111)	(10-110)	(40-119)
LCS 240-2434/2-A	Lab Control Sample	66	57	77	69	68	82
LCS 240-3741/3-A	Lab Control Sample	73	71	79	70	60	83
MB 240-2434/1-A	Method Blank	61	34	67	62	67	81
MB 240-3741/2-A	Method Blank	74	75	75	72	64	88

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	TBP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(22-110)	(10-110)	(17-117)	(29-111)	(10-110)	(40-119)
240-258-1	PRESS ROOM PINE FLOOR	49	23	66	48	50	48
240-258-2	SHIPPING PINE FLOOR	47	39	57	44	51	56
240-258-3	WEST SHIPPING COMPOSITE	54	0.5 X	1 X	50	6 X	70
240-258-3	WEST SHIPPING COMPOSITE	58	56	71	58	53	71
240-258-4	TOOL ROOM PINE FLOOR	50	41	63	7 X	76	31 X
240-258-5	WEST SHIPPING PINE	55	36	73	49	67	60
240-258-6	SHIPPING COMPOSITE FLOOR	44	32	51	43	51	38 X
240-258-7	PRESS ROOM PECAN FLOOR	52	37	67	54	74	43

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(10-196)	(10-199)
240-258-1	PRESS ROOM PINE FLOOR	170	0 X
240-258-2	SHIPPING PINE FLOOR	323 X	63
240-258-3	WEST SHIPPING COMPOSITE	82	88
240-258-4	TOOL ROOM PINE FLOOR	1412 X	676 p X
240-258-5	WEST SHIPPING PINE	0 X	0 X
240-258-6	SHIPPING COMPOSITE FLOOR	0 X	0 X
240-258-7	PRESS ROOM PECAN FLOOR	0 X	0 X
LCS 240-2372/2-A	Lab Control Sample	92	84
MB 240-2372/1-A	Method Blank	92	75

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-2776/7
Matrix: Solid
Analysis Batch: 2776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,1-Dichloroethene	1.00	1.12		mg/L		112	71 - 133
1,2-Dichloroethane	1.00	1.01		mg/L		101	81 - 114
Benzene	1.00	1.00		mg/L		100	84 - 120
Carbon tetrachloride	1.00	0.935		mg/L		94	54 - 122
Chlorobenzene	1.00	1.03		mg/L		103	86 - 111
Chloroform	1.00	0.985		mg/L		98	87 - 123
Tetrachloroethene	1.00	1.08		mg/L		108	79 - 134
Trichloroethene	1.00	1.08		mg/L		108	78 - 130
Vinyl chloride	1.00	0.980		mg/L		98	56 - 111

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*80 - 121*
4-Bromofluorobenzene (Surr)	*91*		*70 - 124*
Toluene-d8 (Surr)	*102*		*90 - 115*
Dibromofluoromethane (Surr)	*102*		*84 - 128*

Lab Sample ID: LB 240-2393/14-A LB
Matrix: Solid
Analysis Batch: 2776

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.00019	mg/L			05/26/11 21:44	1
1,2-Dichloroethane	0.025	U	0.025	0.00022	mg/L			05/26/11 21:44	1
2-Butanone (MEK)	0.25	U	0.25	0.00057	mg/L			05/26/11 21:44	1
Benzene	0.025	U	0.025	0.00013	mg/L			05/26/11 21:44	1
Carbon tetrachloride	0.025	U	0.025	0.00013	mg/L			05/26/11 21:44	1
Chlorobenzene	0.025	U	0.025	0.00015	mg/L			05/26/11 21:44	1
Chloroform	0.025	U	0.025	0.00016	mg/L			05/26/11 21:44	1
Tetrachloroethene	0.025	U	0.025	0.00029	mg/L			05/26/11 21:44	1
Trichloroethene	0.025	U	0.025	0.00017	mg/L			05/26/11 21:44	1
Vinyl chloride	0.025	U	0.025	0.00022	mg/L			05/26/11 21:44	1

Surrogate	*LB % Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*80 - 121*		*05/26/11 21:44*	*1*
4-Bromofluorobenzene (Surr)	*84*		*70 - 124*		*05/26/11 21:44*	*1*
Toluene-d8 (Surr)	*102*		*90 - 115*		*05/26/11 21:44*	*1*
Dibromofluoromethane (Surr)	*100*		*84 - 128*		*05/26/11 21:44*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-2434/1-A
Matrix: Solid
Analysis Batch: 3192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00034	mg/L		05/24/11 09:42	06/01/11 10:58	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.00030	mg/L		05/24/11 09:42	06/01/11 10:58	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.00080	mg/L		05/24/11 09:42	06/01/11 10:58	1
2,4-Dinitrotoluene	0.020	U	0.020	0.00027	mg/L		05/24/11 09:42	06/01/11 10:58	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-2434/1-A
Matrix: Solid
Analysis Batch: 3192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2434

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	0.020	U	0.020	0.00010	mg/L		05/24/11 09:42	06/01/11 10:58	1
Hexachlorobutadiene	0.020	U	0.020	0.00027	mg/L		05/24/11 09:42	06/01/11 10:58	1
Hexachloroethane	0.020	U	0.020	0.00080	mg/L		05/24/11 09:42	06/01/11 10:58	1
3 & 4 Methylphenol	0.040	U	0.040	0.00075	mg/L		05/24/11 09:42	06/01/11 10:58	1
2-Methylphenol	0.0040	U	0.0040	0.00080	mg/L		05/24/11 09:42	06/01/11 10:58	1
Nitrobenzene	0.0040	U	0.0040	0.000040	mg/L		05/24/11 09:42	06/01/11 10:58	1
Pentachlorophenol	0.040	U	0.040	0.0024	mg/L		05/24/11 09:42	06/01/11 10:58	1
Pyridine	0.020	U	0.020	0.00035	mg/L		05/24/11 09:42	06/01/11 10:58	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*61*		*22 - 110*	*05/24/11 09:42*	*06/01/11 10:58*	*1*
2-Fluorophenol (Surr)	*34*		*10 - 110*	*05/24/11 09:42*	*06/01/11 10:58*	*1*
2,4,6-Tribromophenol (Surr)	*67*		*17 - 117*	*05/24/11 09:42*	*06/01/11 10:58*	*1*
Nitrobenzene-d5 (Surr)	*62*		*29 - 111*	*05/24/11 09:42*	*06/01/11 10:58*	*1*
Phenol-d5 (Surr)	*67*		*10 - 110*	*05/24/11 09:42*	*06/01/11 10:58*	*1*
Terphenyl-d14 (Surr)	*81*		*40 - 119*	*05/24/11 09:42*	*06/01/11 10:58*	*1*

Lab Sample ID: LCS 240-2434/2-A
Matrix: Solid
Analysis Batch: 3192

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
1,4-Dichlorobenzene	0.0800	0.0574		mg/L		72	16 - 110
2,4,5-Trichlorophenol	0.0800	0.0668		mg/L		84	35 - 111
2,4,6-Trichlorophenol	0.0800	0.0579		mg/L		72	32 - 110
2,4-Dinitrotoluene	0.0800	0.0665		mg/L		83	45 - 126
Hexachlorobenzene	0.0800	0.0602		mg/L		75	47 - 116
Hexachlorobutadiene	0.0800	0.0553		mg/L		69	10 - 110
Hexachloroethane	0.0800	0.0578		mg/L		72	10 - 110
2-Methylphenol	0.0800	0.0682		mg/L		85	24 - 110
Pentachlorophenol	0.0800	0.0504		mg/L		63	12 - 110
Pyridine	0.0800	0.0575		mg/L		72	10 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*66*		*22 - 110*
2-Fluorophenol (Surr)	*57*		*10 - 110*
2,4,6-Tribromophenol (Surr)	*77*		*17 - 117*
Nitrobenzene-d5 (Surr)	*69*		*29 - 111*
Phenol-d5 (Surr)	*68*		*10 - 110*
Terphenyl-d14 (Surr)	*82*		*40 - 119*

Lab Sample ID: MB 240-3741/2-A
Matrix: Solid
Analysis Batch: 4135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00034	mg/L		06/06/11 13:44	06/09/11 11:33	1
2,4,5-Trichlorophenol	0.020	U	0.020	0.00030	mg/L		06/06/11 13:44	06/09/11 11:33	1
2,4,6-Trichlorophenol	0.020	U	0.020	0.00080	mg/L		06/06/11 13:44	06/09/11 11:33	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-3741/2-A
Matrix: Solid
Analysis Batch: 4135

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 3741

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	0.020	U	0.020	0.00027	mg/L		06/06/11 13:44	06/09/11 11:33	1
Hexachlorobenzene	0.020	U	0.020	0.00010	mg/L		06/06/11 13:44	06/09/11 11:33	1
Hexachlorobutadiene	0.020	U	0.020	0.00027	mg/L		06/06/11 13:44	06/09/11 11:33	1
Hexachloroethane	0.020	U	0.020	0.00080	mg/L		06/06/11 13:44	06/09/11 11:33	1
3 & 4 Methylphenol	0.040	U	0.040	0.00075	mg/L		06/06/11 13:44	06/09/11 11:33	1
2-Methylphenol	0.0040	U	0.0040	0.00080	mg/L		06/06/11 13:44	06/09/11 11:33	1
Nitrobenzene	0.0040	U	0.0040	0.000040	mg/L		06/06/11 13:44	06/09/11 11:33	1
Pentachlorophenol	0.040	U	0.040	0.0024	mg/L		06/06/11 13:44	06/09/11 11:33	1
Pyridine	0.020	U	0.020	0.00035	mg/L		06/06/11 13:44	06/09/11 11:33	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*74*		*22 - 110*	*06/06/11 13:44*	*06/09/11 11:33*	*1*
2-Fluorophenol (Surr)	*75*		*10 - 110*	*06/06/11 13:44*	*06/09/11 11:33*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*17 - 117*	*06/06/11 13:44*	*06/09/11 11:33*	*1*
Nitrobenzene-d5 (Surr)	*72*		*29 - 111*	*06/06/11 13:44*	*06/09/11 11:33*	*1*
Phenol-d5 (Surr)	*64*		*10 - 110*	*06/06/11 13:44*	*06/09/11 11:33*	*1*
Terphenyl-d14 (Surr)	*88*		*40 - 119*	*06/06/11 13:44*	*06/09/11 11:33*	*1*

Lab Sample ID: LCS 240-3741/3-A
Matrix: Solid
Analysis Batch: 4135

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 3741

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
2,4,5-Trichlorophenol	0.0800	0.0626		mg/L		78	35 - 111
2,4,6-Trichlorophenol	0.0800	0.0596		mg/L		74	32 - 110
Hexachlorobenzene	0.0800	0.0610		mg/L		76	47 - 116
Hexachlorobutadiene	0.0800	0.0633		mg/L		79	10 - 110
Hexachloroethane	0.0800	0.0604		mg/L		76	10 - 110
2-Methylphenol	0.0800	0.0665		mg/L		83	24 - 110
Pyridine	0.0800	0.0546		mg/L		68	10 - 110

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*22 - 110*
2-Fluorophenol (Surr)	*71*		*10 - 110*
2,4,6-Tribromophenol (Surr)	*79*		*17 - 117*
Nitrobenzene-d5 (Surr)	*70*		*29 - 111*
Phenol-d5 (Surr)	*60*		*10 - 110*
Terphenyl-d14 (Surr)	*83*		*40 - 119*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-2372/1-A
Matrix: Solid
Analysis Batch: 2672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	200	U	200	130	ug/Kg		05/23/11 13:53	05/26/11 19:40	1
Aroclor 1221	200	U	200	96	ug/Kg		05/23/11 13:53	05/26/11 19:40	1
Aroclor 1232	200	U	200	84	ug/Kg		05/23/11 13:53	05/26/11 19:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 240-2372/1-A
Matrix: Solid
Analysis Batch: 2672

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2372

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	200	U	200	78	ug/Kg		05/23/11 13:53	05/26/11 19:40	1
Aroclor 1248	200	U	200	100	ug/Kg		05/23/11 13:53	05/26/11 19:40	1
Aroclor 1254	200	U	200	100	ug/Kg		05/23/11 13:53	05/26/11 19:40	1
Aroclor 1260	200	U	200	100	ug/Kg		05/23/11 13:53	05/26/11 19:40	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*10 - 196*	*05/23/11 13:53*	*05/26/11 19:40*	*1*
DCB Decachlorobiphenyl	*75*		*10 - 199*	*05/23/11 13:53*	*05/26/11 19:40*	*1*

Lab Sample ID: LCS 240-2372/2-A
Matrix: Solid
Analysis Batch: 2672

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2372

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	2000	1920		ug/Kg		96	34 - 127
Aroclor 1260	2000	1770		ug/Kg		88	32 - 141

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*10 - 196*
DCB Decachlorobiphenyl	*84*		*10 - 199*

Method: 6010B - Metals (ICP)

Lab Sample ID: LB 240-2532/1-A LB
Matrix: Solid
Analysis Batch: 2799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2532

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 21:47	1
Barium	0.00944	J	10	0.00067	mg/L		05/25/11 07:43	05/26/11 21:47	1
Cadmium	0.10	U	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 21:47	1
Chromium	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 21:47	1
Lead	0.50	U	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 21:47	1
Selenium	0.00760	J	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 21:47	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 21:47	1

Lab Sample ID: MB 240-2532/2-A
Matrix: Solid
Analysis Batch: 2799

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2532

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.50	U	0.50	0.0032	mg/L		05/25/11 07:43	05/26/11 22:05	1
Barium	0.00136	J	10	0.00067	mg/L		05/25/11 07:43	05/26/11 22:05	1
Cadmium	0.10	U	0.10	0.00066	mg/L		05/25/11 07:43	05/26/11 22:05	1
Chromium	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:05	1
Lead	0.50	U	0.50	0.0019	mg/L		05/25/11 07:43	05/26/11 22:05	1
Selenium	0.25	U	0.25	0.0041	mg/L		05/25/11 07:43	05/26/11 22:05	1
Silver	0.50	U	0.50	0.0022	mg/L		05/25/11 07:43	05/26/11 22:05	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 240-2532/3-A
Matrix: Solid
Analysis Batch: 2799

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2532

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Arsenic	2.00	1.97		mg/L		98	50 - 150
Barium	2.00	1.97	J	mg/L		99	50 - 150
Cadmium	0.0500	0.0475	J	mg/L		95	50 - 150
Chromium	0.200	0.188	J	mg/L		94	50 - 150
Lead	0.500	0.479	J	mg/L		96	50 - 150
Selenium	2.00	2.03		mg/L		101	50 - 150
Silver	0.0500	0.0503	J	mg/L		101	50 - 150

Method: 7470A - Mercury (CVAA)

Lab Sample ID: LB 240-2533/1-A LB
Matrix: Solid
Analysis Batch: 2844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2533

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 07:58	1

Lab Sample ID: MB 240-2533/2-A
Matrix: Solid
Analysis Batch: 2844

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2533

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00012	mg/L		05/25/11 14:55	05/26/11 07:59	1

Lab Sample ID: LCS 240-2533/3-A
Matrix: Solid
Analysis Batch: 2844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2533

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.00500	0.00520		mg/L		104	50 - 150

Lab Sample ID: MRL 240-2555/9-A MRL
Matrix: Solid
Analysis Batch: 2844

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2555

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.200	0.207		ug/L		104	

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: LCS 240-2476/1
Matrix: Solid
Analysis Batch: 2476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Flashpoint	81.0	81.0		Degrees F		100	

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method (Continued)

Lab Sample ID: 240-258-1 DU
Matrix: Solid
Analysis Batch: 2476

Client Sample ID: PRESS ROOM PINE FLOOR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>180			>180		Degrees F				NC	20

Lab Sample ID: 240-258-6 DU
Matrix: Solid
Analysis Batch: 2476

Client Sample ID: SHIPPING COMPOSITE FLOOR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Flashpoint	>180			>180		Degrees F				NC	20

GC/MS VOA

Leach Batch: 2393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	1311	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	1311	
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-5	WEST SHIPPING PINE	TCLP	Solid	1311	
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	1311	
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	1311	
LB 240-2393/14-A LB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 2776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-2393/14-A LB	Method Blank	TCLP	Solid	8260B	
LCS 240-2776/7	Lab Control Sample	Total/NA	Solid	8260B	
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	8260B	
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	8260B	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	8260B	
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	8260B	
240-258-5	WEST SHIPPING PINE	TCLP	Solid	8260B	
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	8260B	
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 2391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	1311	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	1311	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	1311	
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-5	WEST SHIPPING PINE	TCLP	Solid	1311	
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	1311	
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	1311	

Prep Batch: 2434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2434/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 240-2434/2-A	Lab Control Sample	Total/NA	Solid	3510C	
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	3510C	2391
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	3510C	2391
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	3510C	2391
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	3510C	2391
240-258-5	WEST SHIPPING PINE	TCLP	Solid	3510C	2391
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	3510C	2391
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	3510C	2391

Analysis Batch: 3192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2434/1-A	Method Blank	Total/NA	Solid	8270C	2434
LCS 240-2434/2-A	Lab Control Sample	Total/NA	Solid	8270C	2434
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	8270C	2434
240-258-5	WEST SHIPPING PINE	TCLP	Solid	8270C	2434

GC/MS Semi VOA (Continued)

Analysis Batch: 3192 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	8270C	2434
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	8270C	2434
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	8270C	2434
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	8270C	2434
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	8270C	2434

Prep Batch: 3741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	3510C	2391
MB 240-3741/2-A	Method Blank	Total/NA	Solid	3510C	
LCS 240-3741/3-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 4135

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-3741/2-A	Method Blank	Total/NA	Solid	8270C	3741
LCS 240-3741/3-A	Lab Control Sample	Total/NA	Solid	8270C	3741
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	8270C	3741

GC Semi VOA

Prep Batch: 2372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2372/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-2372/2-A	Lab Control Sample	Total/NA	Solid	3540C	
240-258-1	PRESS ROOM PINE FLOOR	Total/NA	Solid	3540C	
240-258-2	SHIPPING PINE FLOOR	Total/NA	Solid	3540C	
240-258-3	WEST SHIPPING COMPOSITE	Total/NA	Solid	3540C	
240-258-4	TOOL ROOM PINE FLOOR	Total/NA	Solid	3540C	
240-258-5	WEST SHIPPING PINE	Total/NA	Solid	3540C	
240-258-6	SHIPPING COMPOSITE FLOOR	Total/NA	Solid	3540C	
240-258-7	PRESS ROOM PECAN FLOOR	Total/NA	Solid	3540C	

Analysis Batch: 2672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-2	SHIPPING PINE FLOOR	Total/NA	Solid	8082	2372
240-258-3	WEST SHIPPING COMPOSITE	Total/NA	Solid	8082	2372
240-258-5	WEST SHIPPING PINE	Total/NA	Solid	8082	2372
MB 240-2372/1-A	Method Blank	Total/NA	Solid	8082	2372
LCS 240-2372/2-A	Lab Control Sample	Total/NA	Solid	8082	2372

Analysis Batch: 2887

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-1	PRESS ROOM PINE FLOOR	Total/NA	Solid	8082	2372
240-258-4	TOOL ROOM PINE FLOOR	Total/NA	Solid	8082	2372
240-258-6	SHIPPING COMPOSITE FLOOR	Total/NA	Solid	8082	2372

Analysis Batch: 3035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-7	PRESS ROOM PECAN FLOOR	Total/NA	Solid	8082	2372

Metals

Leach Batch: 2391

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	1311	
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	1311	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	1311	
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	1311	
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	1311	
240-258-5	WEST SHIPPING PINE	TCLP	Solid	1311	
240-258-5	WEST SHIPPING PINE	TCLP	Solid	1311	
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	1311	
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	1311	
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	1311	
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	1311	

Prep Batch: 2532

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-2532/1-A LB	Method Blank	Total/NA	Solid	3010A	
MB 240-2532/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-2532/3-A	Lab Control Sample	Total/NA	Solid	3010A	
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	3010A	2391
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	3010A	2391
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	3010A	2391
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	3010A	2391
240-258-5	WEST SHIPPING PINE	TCLP	Solid	3010A	2391
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	3010A	2391
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	3010A	2391

Prep Batch: 2533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-2533/1-A LB	Method Blank	Total/NA	Solid	7470A	
MB 240-2533/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-2533/3-A	Lab Control Sample	Total/NA	Solid	7470A	
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	7470A	2391
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	7470A	2391
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	7470A	2391
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	7470A	2391
240-258-5	WEST SHIPPING PINE	TCLP	Solid	7470A	2391
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	7470A	2391
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	7470A	2391

Prep Batch: 2555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 240-2555/9-A MRL	Lab Control Sample	Total/NA	Solid	7470A	

Analysis Batch: 2799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB 240-2532/1-A LB	Method Blank	Total/NA	Solid	6010B	2532
MB 240-2532/2-A	Method Blank	Total/NA	Solid	6010B	2532
LCS 240-2532/3-A	Lab Control Sample	Total/NA	Solid	6010B	2532
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	6010B	2532
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	6010B	2532

Metals (Continued)

Analysis Batch: 2799 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	6010B	2532
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	6010B	2532
240-258-5	WEST SHIPPING PINE	TCLP	Solid	6010B	2532
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	6010B	2532
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	6010B	2532

Analysis Batch: 2844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 240-2555/9-A MRL	Lab Control Sample	Total/NA	Solid	7470A	2555
LB 240-2533/1-A LB	Method Blank	Total/NA	Solid	7470A	2533
MB 240-2533/2-A	Method Blank	Total/NA	Solid	7470A	2533
LCS 240-2533/3-A	Lab Control Sample	Total/NA	Solid	7470A	2533
240-258-1	PRESS ROOM PINE FLOOR	TCLP	Solid	7470A	2533
240-258-2	SHIPPING PINE FLOOR	TCLP	Solid	7470A	2533
240-258-3	WEST SHIPPING COMPOSITE	TCLP	Solid	7470A	2533
240-258-4	TOOL ROOM PINE FLOOR	TCLP	Solid	7470A	2533
240-258-5	WEST SHIPPING PINE	TCLP	Solid	7470A	2533
240-258-6	SHIPPING COMPOSITE FLOOR	TCLP	Solid	7470A	2533
240-258-7	PRESS ROOM PECAN FLOOR	TCLP	Solid	7470A	2533

General Chemistry

Analysis Batch: 2476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-2476/1	Lab Control Sample	Total/NA	Solid	1010	
240-258-1	PRESS ROOM PINE FLOOR	Total/NA	Solid	1010	
240-258-1 DU	PRESS ROOM PINE FLOOR	Total/NA	Solid	1010	
240-258-2	SHIPPING PINE FLOOR	Total/NA	Solid	1010	
240-258-3	WEST SHIPPING COMPOSITE	Total/NA	Solid	1010	
240-258-4	TOOL ROOM PINE FLOOR	Total/NA	Solid	1010	
240-258-5	WEST SHIPPING PINE	Total/NA	Solid	1010	
240-258-6	SHIPPING COMPOSITE FLOOR	Total/NA	Solid	1010	
240-258-6 DU	SHIPPING COMPOSITE FLOOR	Total/NA	Solid	1010	
240-258-7	PRESS ROOM PECAN FLOOR	Total/NA	Solid	1010	

Client Sample ID: PRESS ROOM PINE FLOOR

Lab Sample ID: 240-258-1

Date Collected: 05/13/11 12:15

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/26/11 22:10	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		5	3192	06/01/11 19:37	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		10	2887	05/27/11 21:03	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 22:42	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:05	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: SHIPPING PINE FLOOR

Lab Sample ID: 240-258-2

Date Collected: 05/13/11 12:20

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/26/11 22:35	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		20	3192	06/01/11 19:18	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		1	2672	05/26/11 18:14	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 22:48	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:07	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: WEST SHIPPING COMPOSITE

Lab Sample ID: 240-258-3

Date Collected: 05/13/11 12:25

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/26/11 23:02	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		1	3192	06/01/11 12:31	JG	TAL NC
TCLP	Prep	3510C			3741	06/06/11 13:44	SE	TAL NC
TCLP	Analysis	8270C		1	4135	06/09/11 20:40	JG	TAL NC

Client Sample ID: WEST SHIPPING COMPOSITE

Lab Sample ID: 240-258-3

Date Collected: 05/13/11 12:25

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		1	2672	05/26/11 18:28	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 22:54	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:08	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: TOOL ROOM PINE FLOOR

Lab Sample ID: 240-258-4

Date Collected: 05/13/11 12:10

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/26/11 23:27	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		5	3192	06/01/11 19:55	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		50	2887	05/27/11 21:18	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 23:00	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:09	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: WEST SHIPPING PINE

Lab Sample ID: 240-258-5

Date Collected: 05/13/11 12:25

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/26/11 23:52	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		20	3192	06/01/11 19:00	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		10	2672	05/26/11 18:57	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 23:18	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:13	BD	TAL NC

Lab Chronicle

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Client Sample ID: WEST SHIPPING PINE

Lab Sample ID: 240-258-5

Date Collected: 05/13/11 12:25

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: SHIPPING COMPOSITE FLOOR

Lab Sample ID: 240-258-6

Date Collected: 05/13/11 12:20

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/27/11 00:18	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		4	3192	06/01/11 20:14	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		100	2887	05/27/11 21:32	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 23:25	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:14	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Client Sample ID: PRESS ROOM PECAN FLOOR

Lab Sample ID: 240-258-7

Date Collected: 05/13/11 12:15

Matrix: Solid

Date Received: 05/17/11 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
TCLP	Leach	1311			2393	05/23/11 16:15	DJ	TAL NC
TCLP	Analysis	8260B		1	2776	05/27/11 00:43	TL	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3510C			2434	05/24/11 09:42	SE	TAL NC
TCLP	Analysis	8270C		5	3192	06/01/11 20:32	JG	TAL NC
Total/NA	Prep	3540C			2372	05/23/11 13:53	SE	TAL NC
Total/NA	Analysis	8082		500	3035	05/31/11 10:23	LH	TAL NC
TCLP	Leach	1311			2391	05/23/11 16:15	DJ	TAL NC
TCLP	Prep	3010A			2532	05/25/11 07:43	LM	TAL NC
TCLP	Analysis	6010B		1	2799	05/26/11 23:31	BD	TAL NC
TCLP	Prep	7470A			2533	05/25/11 14:55	LM	TAL NC
TCLP	Analysis	7470A		1	2844	05/26/11 08:16	BD	TAL NC
Total/NA	Analysis	1010		1	2476	05/24/11 09:00	TH	TAL NC

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Ohio Environmental Protection Agency
Project/Site: MANSFIELD

TestAmerica Job ID: 240-258-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

06/20/2011

Client Contact

Company Name: Tetra Tech	Client Project Manager: Guy Montfort	Site Contact:	Lab Contact: Denise Pohl
Address: 250 W Court Suite 200W	Telephone:	Telephone:	Telephone:
City/State/Zip: Cincinnati OH 45202	Email: guy.montfort@TetraTech.com	Analysis Turnaround Time (in BUS days)	COC No: 019482
Phone:		TAT if different from below _____	1 of ___ COCs
Project Name: Mansfield	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☒ 1 week ☐ 2 days ☐ 1 day	For lab use only: ☐ Walk-in client ☐ Lab pickup ☐ Lab sampling
Project Number:	Shipping/Tracking No:		Job/SDG No:
PO#			

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses: TCLP VOC	TCLP metals	TCLP SVOC	Flashpoint	PCBs	Sample Specific Notes / Special Instructions:
Press Room Pine Floor	5-13	1215				X							X		N	G	X	X	X	X	X	
Shipping Pine Floor		1220																				
West Shipping Composite		1225																				
Tool Room Pine Floor		1210																				
West Shipping Pine		1225																				
Shipping Composite Floor		1220																				
Press Room Pecan Floor		1215																				

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:
Wood floor samples, could not break up

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
V Farmer	TT	5/16/1230			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA NL	5/17/11 0840

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TAL 0018- 1 (04/10)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 258
North Canton Facility

Client Tetra Tech Project Mansfield By: (Signature)
Cooler Received on 5/12/11 Opened on 5/12/11
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # CJ382 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt 16.7 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☐ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☒
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☐ No ☒

Contacted PM DJP Date 5/12/11 by JL via Verbal ☒ Voice Mail ☐ Other ☐
Concerning High Temp

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

TESTAMERICA, NORTH CANTON
FLASHPOINT LOGSHEET

Analysis Date 5-24-11 Batch 2476

Analyst TT pXylene lot H14J04

Instrument: Whitey Method 1010 Closed Cup

Sample	Matrix	Method	Start Temp (F)	Flash Temp (F)	Correct Flash Temp (F)	Comments
pXylene	QC	(PM) OC	52°	81°		
258-1	S	(PM) OC	74°	>180°		
258-1 DUP	S	(PM) OC	71°	>180°		
258-2	S	(PM) OC	74°	>180		
258-3	S	(PM) OC	69°	>180		
258-4	S	(PM) OC	80°	>180		
258-5	S	(PM) OC	78°	>180		
258-6	S	(PM) OC	74°	>180		
258-6 DUP	S	(PM) OC	74°	>180		
258-7	S	(PM) OC	71°	>180		
205-2	S	(PM) OC	70°	>180		
205-4	S	(PM) OC	80°	>180		
		PM OC				
		PM OC				
		PM OC				
		PM OC				
		PM OC				
		PM OC				
		PM OC				
		PM OC				

Batch #	Sample ID	Ext. Vessel ID	Matrix	Sample Wt (g)	Ext. Buffer ID	Date On	Time On	Initials On	Date Off	Time Off	Initials Off	Tumbler ID	Tumbler Speed 30±2 RPM	Ext. Fluid ID	Initial ZHE Pressure	Final ZHE Pressure	Comments
23679	240-258-b-1	U	SOLID	25.05	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-b-2	AC	SOLID	25.03	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-b-3	C	SOLID	25.03	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-b-4	28	SOLID	25.04	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-b-5	X	SOLID	25.01	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-b-6	AF	SOLID	25.03	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-258-c-7	6	SOLID	25.00	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-205-a-1	3	SOLID	X 10.01 X	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	F	29	9042	10PSI	10PSI	200ML
23679	240-205-a-2	F	SOLID	25.04	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-205-a-3	Q	SOLID	25.04	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-205-a-4	L	SOLID	24.96	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	
23679	240-308-a-1	AD	WASTE	24.99	1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	F	29	9042	10PSI	10PSI	
	~~240-308-a-2~~	~~2~~	SOLID	~~25.02~~	~~1~~	~~05/23/11~~	~~4:15p~~	~~BAF/DRJ~~				~~G~~	~~29~~	~~9042~~	~~10PSI~~	~~10PSI~~	No ZHE
23679	LB 240-2393/14-A	M	BLANK		1	05/23/11	4:15p	BAF/DRJ	05/24/11	8:45a	BAF/DRJ	G	29	9042	10PSI	10PSI	

SW846 Method 1311, SW846 Method 1312, ASTM Method D3987-85
Balance ID: B034
pH meter S/N: 1228295055

				Pre-Test			% Dry Solids				Leach Start						Leach Finish						
Batch #	Sample ID	Parameters	Matrix	Wt (g) Sample	pH after water	pH after heating	Wt (g) Sample	Wt (g) Filter	Filter + Particulates Wt (g)	% Dry Solids	Wt (g) Sample	Buffer #	Date On	Buffer ID	Time On	Initials On	Date Off	Time Off	pH Off	Initials Off	New Container ID	Tumbler ID	Comments
2391	240-258-B-1	M B	SOLID	5.03	4.99	1.51					100.05	1	05/23/11	9038	4:15p	BAF/DRJ	05/24/11	8:45a	4.92	BAF/DRJ	23606	C	MS for BNAs
2391	240-258-B-2	M B	SOLID	5.01	5.19	1.51					100.07	1	05/23/11	9038	4:15p	BAF/DRJ	05/24/11	8:45a	4.97	BAF/DRJ	23607	C	
2391	240-258-B-3	M B	SOLID	5.02	4.36	1.41					100.02	1	05/23/11	9038	4:15p	BAF/DRJ	05/24/11	8:45a	4.94	BAF/DRJ	23608	C	
2391	240-258-B-4	M B	SOLID	5.00	5.10	1.40					100.03	1	05/23/11	9038	4:15p	BAF/DRJ	05/24/11	8:45a	4.96	BAF/DRJ	23609	C	
2391	240-258-B-5	M B	SOLID	5.01	5.16	1.67					100.02	1	05/23/11	9039	4:15p	BAF/DRJ	05/24/11	8:45a	4.91	BAF/DRJ	23610	C	
2391	240-258-B-6	M B	SOLID	5.02	7.85	4.29					100.03	1	05/23/11	9039	4:15p	BAF/DRJ	05/24/11	8:45a	5.93	BAF/DRJ	23611	C	
2391	240-258-C-7	M B	SOLID	5.01	5.11	1.56					100.01	1	05/23/11	9039	4:15p	BAF/DRJ	05/24/11	8:45a	4.98	BAF/DRJ	23612	C	
2389	240-205-a-1	M B P H	SOLID	4.99	5.88	1.56					X 70.37 X	1	05/23/11	9039	4:15p	BAF/DRJ	05/24/11	8:45a	4.98	BAF/DRJ	23575	A	NCM Insufficient Volume 1407mL buffer
2389	240-205-a-2	M B P H	SOLID	4.98	8.32	1.66					100.01	1	05/23/11	9040	4:15p	BAF/DRJ	05/24/11	8:45a	5.57	BAF/DRJ	23576	A	MS Pest
2389	240-205-a-3	M B P H	SOLID	5.01	9.43	1.54					99.97	1	05/23/11	9040	4:15p	BAF/DRJ	05/24/11	8:45a	5.04	BAF/DRJ	23577	A	MS BNAs
2389	240-205-a-4	M B P H	SOLID	5.03	8.35	1.54					100.06	1	05/23/11	9040	4:15p	BAF/DRJ	05/24/11	8:45a	5.02	BAF/DRJ	23578	A	MS Herb, MS/MSD Metals
2391	240-308-a-1	M B	WASTE	5.01	8.37	1.56	SOLID				100.00	1	05/23/11	9040	4:15p	BAF/DRJ	05/24/11	8:45a	5.13	BAF/DRJ	23613	A	
2391	240-308-a-2	M	SOLID	5.00	7.00	2.00					100.07	1	05/23/11	9041	4:15p	BAF/DRJ	05/24/11	8:45a	4.91	BAF/DRJ	23614	A	MS/MSD for Metals
2391	240-308-a-3	M B	SOLID	4.99	10.54	1.74					100.04	1	05/23/11	9041	4:15p	BAF/DRJ	05/24/11	8:45a	7.00	BAF/DRJ	23615	B	
2389	LB 240-2389/5		BLANK	5.03								1	05/23/11	9041	4:15p	BAF/DRJ	05/24/11	8:45a	4.93	BAF/DRJ	23579	B	
2391	LB 240-2391/11		BLANK	5.03								1	05/23/11	9041	4:15p	BAF/DRJ	05/24/11	8:45a	4.93	BAF/DRJ	23616	A	
			BLANK									1	05/23/11	9039	4:15p	BAF/DRJ	05/24/11	8:45a		BAF/DRJ		A	

T=TCLP SW846 Method 1311 E=SPLPE SW846 Method 1312 W=SPLPW SW846 Method 1312 DI=18-hour DI Leach ASTM Method D3987-85.
Balance ID: B034
pH Meter S/N: 1228295055

Login Sample Receipt Checklist

Client: Ohio Environmental Protection Agency

Job Number: 240-258-1

Login Number: 258

List Number: 1

Creator: McFadden, John

List Source: TestAmerica North Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	SAMPLES WERE RECEIVED WITHOUT ANY ICE
Cooler Temperature is recorded.	True	16.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica North Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-259-1
Client Project/Site: Mansfield Stamping Plant

For:
Ohio Environmental Protection Agency
Div of Emergency & Remedial Response
50 West Town Street
Suite 700
Columbus, Ohio 43215

Attn: Martin Smith

Denise Pohl

Authorized for release by:
06/20/2011 04:48:41 PM

Denise Pohl
Project Manager II
denise.pohl@testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

LINKS

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Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F	MS or MSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis.
EPA	United States Environmental Protection Agency
ND	Not Detected above the reporting level.
MDL	Method Detection Limit
RL	Reporting Limit
RE, RE1 (etc.)	Indicates a Re-extraction or Reanalysis of the sample.
%R	Percent Recovery
RPD	Relative Percent Difference, a measure of the relative difference between two points.

Job ID: 240-259-1

Laboratory: TestAmerica North Canton

Narrative

CASE NARRATIVE

Client: Ohio Environmental Protection Agency

Project: Mansfield Stamping Plant

Report Number: 240-259-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

The samples were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable. The following requested analytes, parameter groups or methods analyzed and contained in this report are not certified by the laboratory: 1-Methylnapthalene by SW 8270C. This report may contain sample results between the MDL and RL. Results below the RL are not certified under the Oho Voluntary Action Program.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 05/17/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.6 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples LANDFILL-1 (240-259-1), LANDFILL-2 (240-259-2), LANDFILL-3 (240-259-3) and LANDFILL-4 (240-259-4) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW 8260A. The samples were analyzed on 05/25/2011.

1,2,4-Trichlorobenzene and Methylene Chloride were detected in method blank MB 240-2567/6 at levels that were above the method detection limit but below the reporting limit. The values should be considered estimates, and have been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Chloroethane failed the recovery criteria high for LCS 240-2567/5. Refer to the QC report for details.

Chloroethane failed the recovery criteria high for the MS of sample LANDFILL-4MS (240-259-4) in batch 240-2567.

Chloroethane failed the recovery criteria high for the MSD of sample LANDFILL-4MSD (240-259-4) in batch 240-2567.

Refer to the QC report for details.

No other difficulties were encountered during the volatile organic compounds (GC-MS) analyses.

All other quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples LANDFILL-1 (240-259-1), LANDFILL-2 (240-259-2), LANDFILL-3 (240-259-3) and LANDFILL-4 (240-259-4) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW 8270C. The samples were prepared on 05/21/2011 and analyzed on 05/27/2011.

Job ID: 240-259-1 (Continued)

Laboratory: TestAmerica North Canton (Continued)

No difficulties were encountered during the semivolatile organic compounds (GC-MS) analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDSC (GC 8082)

No analytical or quality issues were noted

TOTAL METALS (ICP)

Samples LANDFILL-1 (240-259-1), LANDFILL-2 (240-259-2), LANDFILL-3 (240-259-3) and LANDFILL-4 (240-259-4) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010B. The samples were prepared on 05/23/2011 and analyzed on 05/24/2011.

Barium was detected in method blank MB 240-2355/1-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged “J”. If the associated sample reported a result above the MDL and/or RL, the result has been “B” flagged. Refer to the QC report for details.

Cadmium failed the recovery criteria low for the MS of sample LANDFILL-1MS (240-259-1) in batch 240-2517.

Refer to the QC report for details.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples LANDFILL-1 (240-259-1), LANDFILL-2 (240-259-2), LANDFILL-3 (240-259-3) and LANDFILL-4 (240-259-4) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 05/23/2011 and analyzed on 05/24/2011.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Method	Method Description	Protocol	Laboratory
8260A	Volatile Organic Compounds (GC/MS)	SW846	TAL NC
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL NC
6010B	Metals (ICP)	SW846	TAL NC
7471A	Mercury (CVAA)	SW846	TAL NC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-259-1	LANDFILL-1	Solid	05/16/11 09:30	05/17/11 09:40
240-259-2	LANDFILL-2	Solid	05/16/11 09:34	05/17/11 09:40
240-259-3	LANDFILL-3	Solid	05/16/11 09:38	05/17/11 09:40
240-259-4	LANDFILL-4	Solid	05/16/11 09:43	05/17/11 09:40

Client Sample ID: LANDFILL-1 — Lab Sample ID: 240-259-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	13	B	6.1	0.82	ug/Kg	1	☼	8260A	Total/NA
Acenaphthene	6.0	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Anthracene	8.9		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	31		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	24		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	31		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	16		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	19		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Chrysene	33		8.1	1.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	72		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Fluorene	4.0	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	13		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
1-Methylnaphthalene	5.1	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	5.9	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	48		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Pyrene	54		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Barium	47	B	21	0.074	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.0	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		1.0	0.31	mg/Kg	1	☼	6010B	Total/NA
Lead	12		0.31	0.20	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.016	J	0.097	0.014	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: LANDFILL-2 — Lab Sample ID: 240-259-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.1	J	5.9	0.40	ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	29	B	5.9	0.79	ug/Kg	1	☼	8260A	Total/NA
Benzo[a]anthracene	9.1		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	7.2	J	7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	12		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	7.1	J	7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	4.9	J	7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Chrysene	13		7.8	1.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	21		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	4.6	J	7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
1-Methylnaphthalene	6.2	J	7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	12		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	19		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Pyrene	16		7.8	3.9	ug/Kg	1	☼	8270C	Total/NA
Barium	53	B	21	0.075	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		1.1	0.21	mg/Kg	1	☼	6010B	Total/NA
Arsenic	15		1.1	0.32	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.32	0.20	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.018	J	0.10	0.016	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: LANDFILL-3 — Lab Sample ID: 240-259-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	1.5	J	5.8	0.40	ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	25	B	5.8	0.78	ug/Kg	1	☼	8260A	Total/NA
Benzo[a]anthracene	5.9	J	7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	4.4	J	7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	5.8	J	7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	5.2	J	7.7	3.8	ug/Kg	1	☼	8270C	Total/NA

Client Sample ID: LANDFILL-3 (Continued)

Lab Sample ID: 240-259-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	7.5	J	7.7	1.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	11		7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
1-Methylnaphthalene	6.5	J	7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	7.8		7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	14		7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Pyrene	9.5		7.7	3.8	ug/Kg	1	☼	8270C	Total/NA
Barium	46	B	17	0.061	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.9		0.86	0.17	mg/Kg	1	☼	6010B	Total/NA
Arsenic	12		0.86	0.26	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.26	0.16	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.016	J	0.084	0.013	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: LANDFILL-4

Lab Sample ID: 240-259-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	0.77	J	6.0	0.41	ug/Kg	1	☼	8260A	Total/NA
Methylene Chloride	18	B	6.0	0.81	ug/Kg	1	☼	8260A	Total/NA
Acenaphthene	5.9	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Anthracene	9.9		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]anthracene	36		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	30		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[b]fluoranthene	43		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	21		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	21		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Chrysene	40		8.1	1.3	ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	97		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	18		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	4.1	J	8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	64		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Pyrene	66		8.1	4.0	ug/Kg	1	☼	8270C	Total/NA
Barium	57	B	20	0.071	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		1.0	0.20	mg/Kg	1	☼	6010B	Total/NA
Arsenic	14		1.0	0.30	mg/Kg	1	☼	6010B	Total/NA
Lead	11		0.30	0.19	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.021	J	0.082	0.012	mg/Kg	1	☼	7471A	Total/NA

Client Sample ID: LANDFILL-1
Date Collected: 05/16/11 09:30
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-1
Matrix: Solid
Percent Solids: 81.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24	U	24	7.7	ug/Kg	☼		05/25/11 17:01	1
Benzene	6.1	U	6.1	0.28	ug/Kg	☼		05/25/11 17:01	1
Bromodichloromethane	6.1	U	6.1	0.34	ug/Kg	☼		05/25/11 17:01	1
Bromoform	6.1	U	6.1	0.40	ug/Kg	☼		05/25/11 17:01	1
Bromomethane	12	U	12	0.66	ug/Kg	☼		05/25/11 17:01	1
2-Butanone (MEK)	24	U	24	1.7	ug/Kg	☼		05/25/11 17:01	1
Carbon disulfide	6.1	U	6.1	0.54	ug/Kg	☼		05/25/11 17:01	1
Carbon tetrachloride	6.1	U	6.1	0.45	ug/Kg	☼		05/25/11 17:01	1
Chlorobenzene	6.1	U	6.1	0.40	ug/Kg	☼		05/25/11 17:01	1
Chloroethane	12	U *	12	1.1	ug/Kg	☼		05/25/11 17:01	1
Chloroform	6.1	U	6.1	0.35	ug/Kg	☼		05/25/11 17:01	1
Chloromethane	12	U	12	0.50	ug/Kg	☼		05/25/11 17:01	1
cis-1,2-Dichloroethene	3.1	U	3.1	0.44	ug/Kg	☼		05/25/11 17:01	1
cis-1,3-Dichloropropene	6.1	U	6.1	0.42	ug/Kg	☼		05/25/11 17:01	1
Dibromochloromethane	6.1	U	6.1	0.67	ug/Kg	☼		05/25/11 17:01	1
1,2-Dibromo-3-Chloropropane	12	U	12	1.6	ug/Kg	☼		05/25/11 17:01	1
1,2-Dibromoethane	6.1	U	6.1	0.61	ug/Kg	☼		05/25/11 17:01	1
1,2-Dichlorobenzene	6.1	U	6.1	0.44	ug/Kg	☼		05/25/11 17:01	1
1,3-Dichlorobenzene	6.1	U	6.1	0.43	ug/Kg	☼		05/25/11 17:01	1
1,4-Dichlorobenzene	6.1	U	6.1	0.81	ug/Kg	☼		05/25/11 17:01	1
Dichlorodifluoromethane	12	U	12	0.61	ug/Kg	☼		05/25/11 17:01	1
1,1-Dichloroethane	6.1	U	6.1	0.44	ug/Kg	☼		05/25/11 17:01	1
1,2-Dichloroethane	6.1	U	6.1	0.42	ug/Kg	☼		05/25/11 17:01	1
1,1-Dichloroethene	6.1	U	6.1	0.64	ug/Kg	☼		05/25/11 17:01	1
1,2-Dichloropropane	6.1	U	6.1	0.84	ug/Kg	☼		05/25/11 17:01	1
Ethylbenzene	6.1	U	6.1	0.32	ug/Kg	☼		05/25/11 17:01	1
2-Hexanone	24	U	24	0.77	ug/Kg	☼		05/25/11 17:01	1
Isopropylbenzene	6.1	U	6.1	0.20	ug/Kg	☼		05/25/11 17:01	1
Methylene Chloride	**13**	**B**	6.1	0.82	ug/Kg	☼		05/25/11 17:01	1
4-Methyl-2-pentanone (MIBK)	24	U	24	0.66	ug/Kg	☼		05/25/11 17:01	1
Methyl tert-butyl ether	24	U	24	0.53	ug/Kg	☼		05/25/11 17:01	1
n-Hexane	6.1	U	6.1	1.5	ug/Kg	☼		05/25/11 17:01	1
Styrene	6.1	U	6.1	0.18	ug/Kg	☼		05/25/11 17:01	1
1,1,2,2-Tetrachloroethane	6.1	U	6.1	0.42	ug/Kg	☼		05/25/11 17:01	1
Tetrachloroethene	6.1	U	6.1	0.64	ug/Kg	☼		05/25/11 17:01	1
Toluene	6.1	U	6.1	0.33	ug/Kg	☼		05/25/11 17:01	1
trans-1,2-Dichloroethene	3.1	U	3.1	0.50	ug/Kg	☼		05/25/11 17:01	1
trans-1,3-Dichloropropene	6.1	U	6.1	0.66	ug/Kg	☼		05/25/11 17:01	1
1,2,4-Trichlorobenzene	6.1	U	6.1	0.33	ug/Kg	☼		05/25/11 17:01	1
1,1,1-Trichloroethane	6.1	U	6.1	0.69	ug/Kg	☼		05/25/11 17:01	1
1,1,2-Trichloroethane	6.1	U	6.1	0.48	ug/Kg	☼		05/25/11 17:01	1
Trichloroethene	6.1	U	6.1	0.51	ug/Kg	☼		05/25/11 17:01	1
Trichlorofluoromethane	12	U	12	0.42	ug/Kg	☼		05/25/11 17:01	1
Vinyl chloride	2.4	U	2.4	0.48	ug/Kg	☼		05/25/11 17:01	1
Xylenes, Total	6.1	U	6.1	0.82	ug/Kg	☼		05/25/11 17:01	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*26 - 141*		*05/25/11 17:01*	*1*
Dibromofluoromethane (Surr)	*88*		*37 - 122*		*05/25/11 17:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*39 - 128*		*05/25/11 17:01*	*1*
Toluene-d8 (Surr)	*115*		*33 - 134*		*05/25/11 17:01*	*1*

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Client Sample ID: LANDFILL-1
Date Collected: 05/16/11 09:30
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-1
Matrix: Solid
Percent Solids: 81.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.0	J	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Acenaphthylene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Anthracene	8.9		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Benzo[a]anthracene	31		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Benzo[a]pyrene	24		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Benzo[b]fluoranthene	31		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Benzo[g,h,i]perylene	16		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Benzo[k]fluoranthene	19		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Chrysene	33		8.1	1.3	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Dibenz(a,h)anthracene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Fluoranthene	72		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Fluorene	4.0	J	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Indeno[1,2,3-cd]pyrene	13		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
1-Methylnaphthalene	5.1	J	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
2-Methylnaphthalene	5.9	J	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Naphthalene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Phenanthrene	48		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1
Pyrene	54		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 13:29	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*46*		*34 - 110*	*05/21/11 13:30*	*05/27/11 13:29*	*1*
2-Fluorophenol (Surr)	*54*		*26 - 110*	*05/21/11 13:30*	*05/27/11 13:29*	*1*
Nitrobenzene-d5 (Surr)	*42*		*24 - 112*	*05/21/11 13:30*	*05/27/11 13:29*	*1*
Phenol-d5 (Surr)	*50*		*28 - 110*	*05/21/11 13:30*	*05/27/11 13:29*	*1*
Terphenyl-d14 (Surr)	*69*		*41 - 119*	*05/21/11 13:30*	*05/27/11 13:29*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 118*	*05/21/11 13:30*	*05/27/11 13:29*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	40	U	40	26	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1221	40	U	40	20	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1232	40	U	40	17	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1242	40	U	40	16	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1248	40	U	40	21	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1254	40	U	40	21	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1
Aroclor 1260	40	U	40	21	ug/Kg	☼	05/21/11 10:41	05/24/11 14:34	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*10 - 196*	*05/21/11 10:41*	*05/24/11 14:34*	*1*
DCB Decachlorobiphenyl	*76*		*10 - 199*	*05/21/11 10:41*	*05/24/11 14:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	47	B	21	0.074	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Cadmium	0.52	U	0.52	0.037	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Chromium	11		1.0	0.21	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Arsenic	14		1.0	0.31	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Lead	12		0.31	0.20	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1
Selenium	0.52	U	0.52	0.47	mg/Kg	☼	05/23/11 11:02	05/24/11 10:32	1

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Client Sample ID: LANDFILL-1

Lab Sample ID: 240-259-1
Date Collected: 05/16/11 09:30
Matrix: Solid
Date Received: 05/17/11 09:40
Percent Solids: 81.7

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.097	0.014	mg/Kg	☼	05/23/11 13:15	05/24/11 10:53	1

Client Sample ID: LANDFILL-2

Lab Sample ID: 240-259-2
Date Collected: 05/16/11 09:34
Matrix: Solid
Date Received: 05/17/11 09:40
Percent Solids: 85.0

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24	U	24	7.4	ug/Kg	☼		05/25/11 17:23	1
Benzene	5.9	U	5.9	0.27	ug/Kg	☼		05/25/11 17:23	1
Bromodichloromethane	5.9	U	5.9	0.33	ug/Kg	☼		05/25/11 17:23	1
Bromoform	5.9	U	5.9	0.39	ug/Kg	☼		05/25/11 17:23	1
Bromomethane	12	U	12	0.63	ug/Kg	☼		05/25/11 17:23	1
2-Butanone (MEK)	24	U	24	1.6	ug/Kg	☼		05/25/11 17:23	1
Carbon disulfide	5.9	U	5.9	0.52	ug/Kg	☼		05/25/11 17:23	1
Carbon tetrachloride	5.9	U	5.9	0.44	ug/Kg	☼		05/25/11 17:23	1
Chlorobenzene	5.9	U	5.9	0.39	ug/Kg	☼		05/25/11 17:23	1
Chloroethane	12	U *	12	1.0	ug/Kg	☼		05/25/11 17:23	1
Chloroform	5.9	U	5.9	0.34	ug/Kg	☼		05/25/11 17:23	1
Chloromethane	12	U	12	0.48	ug/Kg	☼		05/25/11 17:23	1
cis-1,2-Dichloroethene	2.9	U	2.9	0.42	ug/Kg	☼		05/25/11 17:23	1
cis-1,3-Dichloropropene	5.9	U	5.9	0.40	ug/Kg	☼		05/25/11 17:23	1
Dibromochloromethane	5.9	U	5.9	0.65	ug/Kg	☼		05/25/11 17:23	1
1,2-Dibromo-3-Chloropropane	12	U	12	1.5	ug/Kg	☼		05/25/11 17:23	1
1,2-Dibromoethane	5.9	U	5.9	0.59	ug/Kg	☼		05/25/11 17:23	1
1,2-Dichlorobenzene	5.9	U	5.9	0.42	ug/Kg	☼		05/25/11 17:23	1
1,3-Dichlorobenzene	5.9	U	5.9	0.41	ug/Kg	☼		05/25/11 17:23	1
1,4-Dichlorobenzene	5.9	U	5.9	0.78	ug/Kg	☼		05/25/11 17:23	1
Dichlorodifluoromethane	12	U	12	0.59	ug/Kg	☼		05/25/11 17:23	1
1,1-Dichloroethane	5.9	U	5.9	0.42	ug/Kg	☼		05/25/11 17:23	1
1,2-Dichloroethane	**1.1**	**J**	5.9	0.40	ug/Kg	☼		05/25/11 17:23	1
1,1-Dichloroethene	5.9	U	5.9	0.61	ug/Kg	☼		05/25/11 17:23	1
1,2-Dichloropropane	5.9	U	5.9	0.81	ug/Kg	☼		05/25/11 17:23	1
Ethylbenzene	5.9	U	5.9	0.31	ug/Kg	☼		05/25/11 17:23	1
2-Hexanone	24	U	24	0.74	ug/Kg	☼		05/25/11 17:23	1
Isopropylbenzene	5.9	U	5.9	0.19	ug/Kg	☼		05/25/11 17:23	1
Methylene Chloride	**29**	**B**	5.9	0.79	ug/Kg	☼		05/25/11 17:23	1
4-Methyl-2-pentanone (MIBK)	24	U	24	0.63	ug/Kg	☼		05/25/11 17:23	1
Methyl tert-butyl ether	24	U	24	0.51	ug/Kg	☼		05/25/11 17:23	1
n-Hexane	5.9	U	5.9	1.4	ug/Kg	☼		05/25/11 17:23	1
Styrene	5.9	U	5.9	0.18	ug/Kg	☼		05/25/11 17:23	1
1,1,2,2-Tetrachloroethane	5.9	U	5.9	0.40	ug/Kg	☼		05/25/11 17:23	1
Tetrachloroethene	5.9	U	5.9	0.61	ug/Kg	☼		05/25/11 17:23	1
Toluene	5.9	U	5.9	0.32	ug/Kg	☼		05/25/11 17:23	1
trans-1,2-Dichloroethene	2.9	U	2.9	0.48	ug/Kg	☼		05/25/11 17:23	1
trans-1,3-Dichloropropene	5.9	U	5.9	0.63	ug/Kg	☼		05/25/11 17:23	1
1,2,4-Trichlorobenzene	5.9	U	5.9	0.32	ug/Kg	☼		05/25/11 17:23	1
1,1,1-Trichloroethane	5.9	U	5.9	0.66	ug/Kg	☼		05/25/11 17:23	1
1,1,2-Trichloroethane	5.9	U	5.9	0.46	ug/Kg	☼		05/25/11 17:23	1
Trichloroethene	5.9	U	5.9	0.49	ug/Kg	☼		05/25/11 17:23	1

Client Sample ID: LANDFILL-2
Date Collected: 05/16/11 09:34
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-2
Matrix: Solid
Percent Solids: 85.0

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	12	U	12	0.40	ug/Kg	☼		05/25/11 17:23	1
Vinyl chloride	2.4	U	2.4	0.46	ug/Kg	☼		05/25/11 17:23	1
Xylenes, Total	5.9	U	5.9	0.79	ug/Kg	☼		05/25/11 17:23	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*26 - 141*		*05/25/11 17:23*	*1*
Dibromofluoromethane (Surr)	*92*		*37 - 122*		*05/25/11 17:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*39 - 128*		*05/25/11 17:23*	*1*
Toluene-d8 (Surr)	*112*		*33 - 134*		*05/25/11 17:23*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Acenaphthylene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Anthracene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Benzo[a]anthracene	**9.1**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Benzo[a]pyrene	**7.2**	**J**	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Benzo[b]fluoranthene	**12**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Benzo[g,h,i]perylene	**7.1**	**J**	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Benzo[k]fluoranthene	**4.9**	**J**	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Chrysene	**13**		7.8	1.3	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Dibenz(a,h)anthracene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Fluoranthene	**21**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Fluorene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Indeno[1,2,3-cd]pyrene	**4.6**	**J**	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
1-Methylnaphthalene	**6.2**	**J**	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
2-Methylnaphthalene	**12**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Naphthalene	7.8	U	7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Phenanthrene	**19**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1
Pyrene	**16**		7.8	3.9	ug/Kg	☼	05/21/11 13:30	05/27/11 13:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*34 - 110*	*05/21/11 13:30*	*05/27/11 13:47*	*1*
2-Fluorophenol (Surr)	*71*		*26 - 110*	*05/21/11 13:30*	*05/27/11 13:47*	*1*
Nitrobenzene-d5 (Surr)	*53*		*24 - 112*	*05/21/11 13:30*	*05/27/11 13:47*	*1*
Phenol-d5 (Surr)	*69*		*28 - 110*	*05/21/11 13:30*	*05/27/11 13:47*	*1*
Terphenyl-d14 (Surr)	*73*		*41 - 119*	*05/21/11 13:30*	*05/27/11 13:47*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*10 - 118*	*05/21/11 13:30*	*05/27/11 13:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	39	U	39	25	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1221	39	U	39	19	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1232	39	U	39	16	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1242	39	U	39	15	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1248	39	U	39	20	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1254	39	U	39	20	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1
Aroclor 1260	39	U	39	20	ug/Kg	☼	05/21/11 10:41	05/24/11 14:48	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*10 - 196*	*05/21/11 10:41*	*05/24/11 14:48*	*1*
DCB Decachlorobiphenyl	*78*		*10 - 199*	*05/21/11 10:41*	*05/24/11 14:48*	*1*

Client Sample ID: LANDFILL-2

Lab Sample ID: 240-259-2

Date Collected: 05/16/11 09:34

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 85.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**53**	**B**	21	0.075	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Cadmium	0.53	U	0.53	0.038	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Chromium	**11**		1.1	0.21	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Silver	1.1	U	1.1	0.11	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Arsenic	**15**		1.1	0.32	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Lead	**13**		0.32	0.20	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1
Selenium	0.53	U	0.53	0.48	mg/Kg	☼	05/23/11 11:02	05/24/11 11:08	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.018**	**J**	0.10	0.016	mg/Kg	☼	05/23/11 13:15	05/24/11 10:57	1

Client Sample ID: LANDFILL-3

Lab Sample ID: 240-259-3

Date Collected: 05/16/11 09:38

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 85.9

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	23	U	23	7.3	ug/Kg	☼		05/25/11 17:44	1
Benzene	5.8	U	5.8	0.27	ug/Kg	☼		05/25/11 17:44	1
Bromodichloromethane	5.8	U	5.8	0.33	ug/Kg	☼		05/25/11 17:44	1
Bromoform	5.8	U	5.8	0.38	ug/Kg	☼		05/25/11 17:44	1
Bromomethane	12	U	12	0.63	ug/Kg	☼		05/25/11 17:44	1
2-Butanone (MEK)	23	U	23	1.6	ug/Kg	☼		05/25/11 17:44	1
Carbon disulfide	5.8	U	5.8	0.51	ug/Kg	☼		05/25/11 17:44	1
Carbon tetrachloride	5.8	U	5.8	0.43	ug/Kg	☼		05/25/11 17:44	1
Chlorobenzene	5.8	U	5.8	0.38	ug/Kg	☼		05/25/11 17:44	1
Chloroethane	12	U *	12	1.0	ug/Kg	☼		05/25/11 17:44	1
Chloroform	5.8	U	5.8	0.34	ug/Kg	☼		05/25/11 17:44	1
Chloromethane	12	U	12	0.48	ug/Kg	☼		05/25/11 17:44	1
cis-1,2-Dichloroethene	2.9	U	2.9	0.42	ug/Kg	☼		05/25/11 17:44	1
cis-1,3-Dichloropropene	5.8	U	5.8	0.40	ug/Kg	☼		05/25/11 17:44	1
Dibromochloromethane	5.8	U	5.8	0.64	ug/Kg	☼		05/25/11 17:44	1
1,2-Dibromo-3-Chloropropane	12	U	12	1.5	ug/Kg	☼		05/25/11 17:44	1
1,2-Dibromoethane	5.8	U	5.8	0.58	ug/Kg	☼		05/25/11 17:44	1
1,2-Dichlorobenzene	5.8	U	5.8	0.42	ug/Kg	☼		05/25/11 17:44	1
1,3-Dichlorobenzene	5.8	U	5.8	0.41	ug/Kg	☼		05/25/11 17:44	1
1,4-Dichlorobenzene	5.8	U	5.8	0.77	ug/Kg	☼		05/25/11 17:44	1
Dichlorodifluoromethane	12	U	12	0.58	ug/Kg	☼		05/25/11 17:44	1
1,1-Dichloroethane	5.8	U	5.8	0.42	ug/Kg	☼		05/25/11 17:44	1
1,2-Dichloroethane	**1.5**	**J**	5.8	0.40	ug/Kg	☼		05/25/11 17:44	1
1,1-Dichloroethene	5.8	U	5.8	0.61	ug/Kg	☼		05/25/11 17:44	1
1,2-Dichloropropane	5.8	U	5.8	0.80	ug/Kg	☼		05/25/11 17:44	1
Ethylbenzene	5.8	U	5.8	0.30	ug/Kg	☼		05/25/11 17:44	1
2-Hexanone	23	U	23	0.73	ug/Kg	☼		05/25/11 17:44	1
Isopropylbenzene	5.8	U	5.8	0.19	ug/Kg	☼		05/25/11 17:44	1
Methylene Chloride	**25**	**B**	5.8	0.78	ug/Kg	☼		05/25/11 17:44	1
4-Methyl-2-pentanone (MIBK)	23	U	23	0.63	ug/Kg	☼		05/25/11 17:44	1
Methyl tert-butyl ether	23	U	23	0.50	ug/Kg	☼		05/25/11 17:44	1
n-Hexane	5.8	U	5.8	1.4	ug/Kg	☼		05/25/11 17:44	1
Styrene	5.8	U	5.8	0.17	ug/Kg	☼		05/25/11 17:44	1

Client Sample ID: LANDFILL-3
Date Collected: 05/16/11 09:38
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-3
Matrix: Solid
Percent Solids: 85.9

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	5.8	U	5.8	0.40	ug/Kg	☼		05/25/11 17:44	1
Tetrachloroethene	5.8	U	5.8	0.61	ug/Kg	☼		05/25/11 17:44	1
Toluene	5.8	U	5.8	0.31	ug/Kg	☼		05/25/11 17:44	1
trans-1,2-Dichloroethene	2.9	U	2.9	0.48	ug/Kg	☼		05/25/11 17:44	1
trans-1,3-Dichloropropene	5.8	U	5.8	0.63	ug/Kg	☼		05/25/11 17:44	1
1,2,4-Trichlorobenzene	5.8	U	5.8	0.31	ug/Kg	☼		05/25/11 17:44	1
1,1,1-Trichloroethane	5.8	U	5.8	0.65	ug/Kg	☼		05/25/11 17:44	1
1,1,2-Trichloroethane	5.8	U	5.8	0.45	ug/Kg	☼		05/25/11 17:44	1
Trichloroethene	5.8	U	5.8	0.49	ug/Kg	☼		05/25/11 17:44	1
Trichlorofluoromethane	12	U	12	0.40	ug/Kg	☼		05/25/11 17:44	1
Vinyl chloride	2.3	U	2.3	0.45	ug/Kg	☼		05/25/11 17:44	1
Xylenes, Total	5.8	U	5.8	0.78	ug/Kg	☼		05/25/11 17:44	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*26 - 141*		*05/25/11 17:44*	*1*
Dibromofluoromethane (Surr)	*91*		*37 - 122*		*05/25/11 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*39 - 128*		*05/25/11 17:44*	*1*
Toluene-d8 (Surr)	*117*		*33 - 134*		*05/25/11 17:44*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Acenaphthylene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Anthracene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Benzo[a]anthracene	**5.9**	**J**	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Benzo[a]pyrene	**4.4**	**J**	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Benzo[b]fluoranthene	**5.8**	**J**	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Benzo[g,h,i]perylene	**5.2**	**J**	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Benzo[k]fluoranthene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Chrysene	**7.5**	**J**	7.7	1.3	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Dibenz(a,h)anthracene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Fluoranthene	**11**		7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Fluorene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Indeno[1,2,3-cd]pyrene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
1-Methylnaphthalene	**6.5**	**J**	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
2-Methylnaphthalene	**7.8**		7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Naphthalene	7.7	U	7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Phenanthrene	**14**		7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1
Pyrene	**9.5**		7.7	3.8	ug/Kg	☼	05/21/11 13:30	05/27/11 14:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*49*		*34 - 110*	*05/21/11 13:30*	*05/27/11 14:06*	*1*
2-Fluorophenol (Surr)	*59*		*26 - 110*	*05/21/11 13:30*	*05/27/11 14:06*	*1*
Nitrobenzene-d5 (Surr)	*45*		*24 - 112*	*05/21/11 13:30*	*05/27/11 14:06*	*1*
Phenol-d5 (Surr)	*57*		*28 - 110*	*05/21/11 13:30*	*05/27/11 14:06*	*1*
Terphenyl-d14 (Surr)	*73*		*41 - 119*	*05/21/11 13:30*	*05/27/11 14:06*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 118*	*05/21/11 13:30*	*05/27/11 14:06*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	38	U	38	24	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1

Client Sample ID: LANDFILL-3

Lab Sample ID: 240-259-3

Date Collected: 05/16/11 09:38

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 85.9

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	38	U	38	19	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1
Aroclor 1232	38	U	38	16	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1
Aroclor 1242	38	U	38	15	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1
Aroclor 1248	38	U	38	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1
Aroclor 1254	38	U	38	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1
Aroclor 1260	38	U	38	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:03	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*10 - 196*	*05/21/11 10:41*	*05/24/11 15:03*	*1*
DCB Decachlorobiphenyl	*80*		*10 - 199*	*05/21/11 10:41*	*05/24/11 15:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**46**	**B**	17	0.061	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Cadmium	0.43	U	0.43	0.031	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Chromium	**9.9**		0.86	0.17	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Silver	0.86	U	0.86	0.086	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Arsenic	**12**		0.86	0.26	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Lead	**11**		0.26	0.16	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1
Selenium	0.43	U	0.43	0.39	mg/Kg	☼	05/23/11 11:02	05/24/11 11:15	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.084	0.013	mg/Kg	☼	05/23/11 13:15	05/24/11 10:58	1

Client Sample ID: LANDFILL-4

Lab Sample ID: 240-259-4

Date Collected: 05/16/11 09:43

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 82.7

Method: 8260A - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	24	U	24	7.6	ug/Kg	☼		05/25/11 18:06	1
Benzene	6.0	U	6.0	0.28	ug/Kg	☼		05/25/11 18:06	1
Bromodichloromethane	6.0	U	6.0	0.34	ug/Kg	☼		05/25/11 18:06	1
Bromoform	6.0	U	6.0	0.40	ug/Kg	☼		05/25/11 18:06	1
Bromomethane	12	U	12	0.65	ug/Kg	☼		05/25/11 18:06	1
2-Butanone (MEK)	24	U	24	1.7	ug/Kg	☼		05/25/11 18:06	1
Carbon disulfide	6.0	U	6.0	0.53	ug/Kg	☼		05/25/11 18:06	1
Carbon tetrachloride	6.0	U	6.0	0.45	ug/Kg	☼		05/25/11 18:06	1
Chlorobenzene	6.0	U	6.0	0.40	ug/Kg	☼		05/25/11 18:06	1
Chloroethane	12	U *	12	1.0	ug/Kg	☼		05/25/11 18:06	1
Chloroform	6.0	U	6.0	0.35	ug/Kg	☼		05/25/11 18:06	1
Chloromethane	12	U	12	0.50	ug/Kg	☼		05/25/11 18:06	1
cis-1,2-Dichloroethene	3.0	U	3.0	0.44	ug/Kg	☼		05/25/11 18:06	1
cis-1,3-Dichloropropene	6.0	U	6.0	0.41	ug/Kg	☼		05/25/11 18:06	1
Dibromochloromethane	6.0	U	6.0	0.67	ug/Kg	☼		05/25/11 18:06	1
1,2-Dibromo-3-Chloropropane	12	U	12	1.6	ug/Kg	☼		05/25/11 18:06	1
1,2-Dibromoethane	6.0	U	6.0	0.60	ug/Kg	☼		05/25/11 18:06	1
1,2-Dichlorobenzene	6.0	U	6.0	0.44	ug/Kg	☼		05/25/11 18:06	1
1,3-Dichlorobenzene	6.0	U	6.0	0.42	ug/Kg	☼		05/25/11 18:06	1
1,4-Dichlorobenzene	6.0	U	6.0	0.80	ug/Kg	☼		05/25/11 18:06	1

Client Sample ID: LANDFILL-4
Date Collected: 05/16/11 09:43
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-4
Matrix: Solid
Percent Solids: 82.7

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	12	U	12	0.60	ug/Kg	☼		05/25/11 18:06	1
1,1-Dichloroethane	6.0	U	6.0	0.44	ug/Kg	☼		05/25/11 18:06	1
1,2-Dichloroethane	**0.77**	**J**	6.0	0.41	ug/Kg	☼		05/25/11 18:06	1
1,1-Dichloroethene	6.0	U	6.0	0.63	ug/Kg	☼		05/25/11 18:06	1
1,2-Dichloropropane	6.0	U	6.0	0.83	ug/Kg	☼		05/25/11 18:06	1
Ethylbenzene	6.0	U	6.0	0.31	ug/Kg	☼		05/25/11 18:06	1
2-Hexanone	24	U	24	0.76	ug/Kg	☼		05/25/11 18:06	1
Isopropylbenzene	6.0	U	6.0	0.19	ug/Kg	☼		05/25/11 18:06	1
Methylene Chloride	**18**	**B**	6.0	0.81	ug/Kg	☼		05/25/11 18:06	1
4-Methyl-2-pentanone (MIBK)	24	U	24	0.65	ug/Kg	☼		05/25/11 18:06	1
Methyl tert-butyl ether	24	U	24	0.52	ug/Kg	☼		05/25/11 18:06	1
n-Hexane	6.0	U	6.0	1.5	ug/Kg	☼		05/25/11 18:06	1
Styrene	6.0	U	6.0	0.18	ug/Kg	☼		05/25/11 18:06	1
1,1,2,2-Tetrachloroethane	6.0	U	6.0	0.41	ug/Kg	☼		05/25/11 18:06	1
Tetrachloroethene	6.0	U	6.0	0.63	ug/Kg	☼		05/25/11 18:06	1
Toluene	6.0	U	6.0	0.33	ug/Kg	☼		05/25/11 18:06	1
trans-1,2-Dichloroethene	3.0	U	3.0	0.50	ug/Kg	☼		05/25/11 18:06	1
trans-1,3-Dichloropropene	6.0	U	6.0	0.65	ug/Kg	☼		05/25/11 18:06	1
1,2,4-Trichlorobenzene	6.0	U	6.0	0.33	ug/Kg	☼		05/25/11 18:06	1
1,1,1-Trichloroethane	6.0	U	6.0	0.68	ug/Kg	☼		05/25/11 18:06	1
1,1,2-Trichloroethane	6.0	U	6.0	0.47	ug/Kg	☼		05/25/11 18:06	1
Trichloroethene	6.0	U	6.0	0.51	ug/Kg	☼		05/25/11 18:06	1
Trichlorofluoromethane	12	U	12	0.41	ug/Kg	☼		05/25/11 18:06	1
Vinyl chloride	2.4	U	2.4	0.47	ug/Kg	☼		05/25/11 18:06	1
Xylenes, Total	6.0	U	6.0	0.81	ug/Kg	☼		05/25/11 18:06	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*26 - 141*		*05/25/11 18:06*	*1*
Dibromofluoromethane (Surr)	*92*		*37 - 122*		*05/25/11 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*39 - 128*		*05/25/11 18:06*	*1*
Toluene-d8 (Surr)	*106*		*33 - 134*		*05/25/11 18:06*	*1*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	**5.9**	**J**	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Acenaphthylene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Anthracene	**9.9**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Benzo[a]anthracene	**36**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Benzo[a]pyrene	**30**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Benzo[b]fluoranthene	**43**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Benzo[g,h,i]perylene	**21**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Benzo[k]fluoranthene	**21**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Chrysene	**40**		8.1	1.3	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Dibenz(a,h)anthracene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Fluoranthene	**97**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Fluorene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Indeno[1,2,3-cd]pyrene	**18**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
1-Methylnaphthalene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
2-Methylnaphthalene	**4.1**	**J**	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Naphthalene	8.1	U	8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1
Phenanthrene	**64**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1

Client Sample ID: LANDFILL-4
Date Collected: 05/16/11 09:43
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-4
Matrix: Solid
Percent Solids: 82.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**66**		8.1	4.0	ug/Kg	☼	05/21/11 13:30	05/27/11 14:24	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*50*		*34 - 110*	*05/21/11 13:30*	*05/27/11 14:24*	*1*
2-Fluorophenol (Surr)	*64*		*26 - 110*	*05/21/11 13:30*	*05/27/11 14:24*	*1*
Nitrobenzene-d5 (Surr)	*49*		*24 - 112*	*05/21/11 13:30*	*05/27/11 14:24*	*1*
Phenol-d5 (Surr)	*59*		*28 - 110*	*05/21/11 13:30*	*05/27/11 14:24*	*1*
Terphenyl-d14 (Surr)	*70*		*41 - 119*	*05/21/11 13:30*	*05/27/11 14:24*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*10 - 118*	*05/21/11 13:30*	*05/27/11 14:24*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	40	U	40	25	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1221	40	U	40	19	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1232	40	U	40	17	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1242	40	U	40	16	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1248	40	U	40	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1254	40	U	40	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1
Aroclor 1260	40	U	40	20	ug/Kg	☼	05/21/11 10:41	05/24/11 15:47	1

Surrogate	*% Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*10 - 196*	*05/21/11 10:41*	*05/24/11 15:47*	*1*
DCB Decachlorobiphenyl	*85*		*10 - 199*	*05/21/11 10:41*	*05/24/11 15:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**57**	**B**	20	0.071	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Cadmium	0.50	U	0.50	0.036	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Chromium	**10**		1.0	0.20	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Silver	1.0	U	1.0	0.10	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Arsenic	**14**		1.0	0.30	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Lead	**11**		0.30	0.19	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1
Selenium	0.50	U	0.50	0.45	mg/Kg	☼	05/23/11 11:02	05/24/11 11:21	1

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**	**J**	0.082	0.012	mg/Kg	☼	05/23/11 13:15	05/24/11 11:00	1

Surrogate Summary

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(26-141)	(37-122)	(39-128)	(33-134)
240-259-1	LANDFILL-1	105	88	102	115
240-259-2	LANDFILL-2	100	92	106	112
240-259-3	LANDFILL-3	103	91	105	117
240-259-4	LANDFILL-4	92	92	109	106
240-259-4 MS	LANDFILL-4	104	105	103	108
240-259-4 MSD	LANDFILL-4	114	107	106	115
LCS 240-2567/5	Lab Control Sample	99	101	101	106
MB 240-2567/6	Method Blank	94	87	103	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		FBP	2FP	NBZ	PHL	TPH	TBP
Lab Sample ID	Client Sample ID	(34-110)	(26-110)	(24-112)	(28-110)	(41-119)	(10-118)
240-259-1	LANDFILL-1	46	54	42	50	69	44
240-259-2	LANDFILL-2	56	71	53	69	73	55
240-259-3	LANDFILL-3	49	59	45	57	73	58
240-259-4	LANDFILL-4	50	64	49	59	70	53
LCS 240-2319/2-A	Lab Control Sample	58	69	55	68	89	69
MB 240-2319/1-A	Method Blank	38	55	37	56	69	32

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)
TBP = 2,4,6-Tribromophenol (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(10-196)	(10-199)
240-259-1	LANDFILL-1	69	76
240-259-2	LANDFILL-2	68	78
240-259-3	LANDFILL-3	67	80
240-259-3 MS	LANDFILL-3	70	87
240-259-3 MSD	LANDFILL-3	68	84
240-259-4	LANDFILL-4	78	85
LCS 240-2314/2-A	Lab Control Sample	78	85
MB 240-2314/1-A	Method Blank	83	74

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Method: 8260A - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-2567/6
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	6.3	ug/Kg			05/25/11 12:42	1
Benzene	5.0	U	5.0	0.23	ug/Kg			05/25/11 12:42	1
Bromodichloromethane	5.0	U	5.0	0.28	ug/Kg			05/25/11 12:42	1
Bromoform	5.0	U	5.0	0.33	ug/Kg			05/25/11 12:42	1
Bromomethane	10	U	10	0.54	ug/Kg			05/25/11 12:42	1
2-Butanone (MEK)	20	U	20	1.4	ug/Kg			05/25/11 12:42	1
Carbon disulfide	5.0	U	5.0	0.44	ug/Kg			05/25/11 12:42	1
Carbon tetrachloride	5.0	U	5.0	0.37	ug/Kg			05/25/11 12:42	1
Chlorobenzene	5.0	U	5.0	0.33	ug/Kg			05/25/11 12:42	1
Chloroethane	10	U	10	0.86	ug/Kg			05/25/11 12:42	1
Chloroform	5.0	U	5.0	0.29	ug/Kg			05/25/11 12:42	1
Chloromethane	10	U	10	0.41	ug/Kg			05/25/11 12:42	1
cis-1,2-Dichloroethene	2.5	U	2.5	0.36	ug/Kg			05/25/11 12:42	1
cis-1,3-Dichloropropene	5.0	U	5.0	0.34	ug/Kg			05/25/11 12:42	1
Dibromochloromethane	5.0	U	5.0	0.55	ug/Kg			05/25/11 12:42	1
1,2-Dibromo-3-Chloropropane	10	U	10	1.3	ug/Kg			05/25/11 12:42	1
1,2-Dibromoethane	5.0	U	5.0	0.50	ug/Kg			05/25/11 12:42	1
1,2-Dichlorobenzene	5.0	U	5.0	0.36	ug/Kg			05/25/11 12:42	1
1,3-Dichlorobenzene	5.0	U	5.0	0.35	ug/Kg			05/25/11 12:42	1
1,4-Dichlorobenzene	5.0	U	5.0	0.66	ug/Kg			05/25/11 12:42	1
Dichlorodifluoromethane	10	U	10	0.50	ug/Kg			05/25/11 12:42	1
1,1-Dichloroethane	5.0	U	5.0	0.36	ug/Kg			05/25/11 12:42	1
1,2-Dichloroethane	5.0	U	5.0	0.34	ug/Kg			05/25/11 12:42	1
1,1-Dichloroethene	5.0	U	5.0	0.52	ug/Kg			05/25/11 12:42	1
1,2-Dichloropropane	5.0	U	5.0	0.69	ug/Kg			05/25/11 12:42	1
Ethylbenzene	5.0	U	5.0	0.26	ug/Kg			05/25/11 12:42	1
2-Hexanone	20	U	20	0.63	ug/Kg			05/25/11 12:42	1
Isopropylbenzene	5.0	U	5.0	0.16	ug/Kg			05/25/11 12:42	1
Methylene Chloride	2.89	J	5.0	0.67	ug/Kg			05/25/11 12:42	1
4-Methyl-2-pentanone (MIBK)	20	U	20	0.54	ug/Kg			05/25/11 12:42	1
Methyl tert-butyl ether	20	U	20	0.43	ug/Kg			05/25/11 12:42	1
m-Xylene & p-Xylene	5.0	U	5.0	1.2	ug/Kg			05/25/11 12:42	1
n-Hexane	5.0	U	5.0	1.2	ug/Kg			05/25/11 12:42	1
o-Xylene	2.5	U	2.5	0.35	ug/Kg			05/25/11 12:42	1
Styrene	5.0	U	5.0	0.15	ug/Kg			05/25/11 12:42	1
1,1,2,2-Tetrachloroethane	5.0	U	5.0	0.34	ug/Kg			05/25/11 12:42	1
Tetrachloroethene	5.0	U	5.0	0.52	ug/Kg			05/25/11 12:42	1
Toluene	5.0	U	5.0	0.27	ug/Kg			05/25/11 12:42	1
trans-1,2-Dichloroethene	2.5	U	2.5	0.41	ug/Kg			05/25/11 12:42	1
trans-1,3-Dichloropropene	5.0	U	5.0	0.54	ug/Kg			05/25/11 12:42	1
1,2,4-Trichlorobenzene	0.288	J	5.0	0.27	ug/Kg			05/25/11 12:42	1
1,1,1-Trichloroethane	5.0	U	5.0	0.56	ug/Kg			05/25/11 12:42	1
1,1,2-Trichloroethane	5.0	U	5.0	0.39	ug/Kg			05/25/11 12:42	1
Trichloroethene	5.0	U	5.0	0.42	ug/Kg			05/25/11 12:42	1
Trichlorofluoromethane	10	U	10	0.34	ug/Kg			05/25/11 12:42	1
Vinyl chloride	2.0	U	2.0	0.39	ug/Kg			05/25/11 12:42	1
Xylenes, Total	5.0	U	5.0	0.67	ug/Kg			05/25/11 12:42	1

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-2567/6
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB % Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		26 - 141		05/25/11 12:42	1
Dibromofluoromethane (Surr)	87		37 - 122		05/25/11 12:42	1
1,2-Dichloroethane-d4 (Surr)	103		39 - 128		05/25/11 12:42	1
Toluene-d8 (Surr)	105		33 - 134		05/25/11 12:42	1

Lab Sample ID: LCS 240-2567/5
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Acetone	100	86.9		ug/Kg		87	16 - 156
Benzene	50.0	49.3		ug/Kg		99	70 - 117
Bromodichloromethane	50.0	48.5		ug/Kg		97	28 - 123
Bromoform	50.0	35.3		ug/Kg		71	10 - 117
Bromomethane	50.0	49.3		ug/Kg		99	10 - 114
2-Butanone (MEK)	100	78.0		ug/Kg		78	10 - 199
Carbon disulfide	50.0	47.1		ug/Kg		94	10 - 132
Carbon tetrachloride	50.0	50.0		ug/Kg		100	29 - 118
Chlorobenzene	50.0	47.0		ug/Kg		94	71 - 116
Chloroethane	50.0	116	*	ug/Kg		232	10 - 120
Chloroform	50.0	51.9		ug/Kg		104	63 - 116
Chloromethane	50.0	47.5		ug/Kg		95	25 - 110
cis-1,2-Dichloroethene	50.0	51.4		ug/Kg		103	60 - 125
cis-1,3-Dichloropropene	50.0	44.3		ug/Kg		89	25 - 120
Dibromochloromethane	50.0	42.3		ug/Kg		85	22 - 113
1,2-Dibromo-3-Chloropropane	50.0	33.8		ug/Kg		68	10 - 129
1,2-Dibromoethane	50.0	47.1		ug/Kg		94	47 - 123
1,2-Dichlorobenzene	50.0	49.4		ug/Kg		99	68 - 118
1,3-Dichlorobenzene	50.0	47.8		ug/Kg		96	66 - 121
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	65 - 119
Dichlorodifluoromethane	50.0	43.1		ug/Kg		86	10 - 110
1,1-Dichloroethane	50.0	52.3		ug/Kg		105	63 - 117
1,2-Dichloroethane	50.0	48.0		ug/Kg		96	68 - 119
1,1-Dichloroethene	50.0	56.9		ug/Kg		114	44 - 143
1,2-Dichloropropane	50.0	47.2		ug/Kg		94	73 - 113
Ethylbenzene	50.0	48.8		ug/Kg		98	66 - 119
2-Hexanone	100	77.8		ug/Kg		78	43 - 130
Isopropylbenzene	50.0	52.3		ug/Kg		105	61 - 123
Methylene Chloride	50.0	52.1		ug/Kg		104	27 - 172
4-Methyl-2-pentanone (MIBK)	100	87.1		ug/Kg		87	49 - 121
Methyl tert-butyl ether	50.0	48.6		ug/Kg		97	34 - 157
m-Xylene & p-Xylene	100	97.3		ug/Kg		97	67 - 118
n-Hexane	50.0	56.3		ug/Kg		113	51 - 144
o-Xylene	50.0	50.5		ug/Kg		101	68 - 120
Styrene	50.0	46.3		ug/Kg		93	60 - 120
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	54 - 121
Tetrachloroethene	50.0	51.0		ug/Kg		102	58 - 131
Toluene	50.0	48.7		ug/Kg		97	66 - 123
trans-1,2-Dichloroethene	50.0	52.8		ug/Kg		106	58 - 121

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-2567/5
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
trans-1,3-Dichloropropene			50.0	39.7		ug/Kg		79	22 - 122		
1,2,4-Trichlorobenzene			50.0	51.9		ug/Kg		104	41 - 135		
1,1,1-Trichloroethane			50.0	52.7		ug/Kg		105	38 - 122		
1,1,2-Trichloroethane			50.0	47.7		ug/Kg		95	74 - 114		
Trichloroethene			50.0	50.0		ug/Kg		100	59 - 124		
Trichlorofluoromethane			50.0	59.3		ug/Kg		119	17 - 145		
Vinyl chloride			50.0	49.3		ug/Kg		99	33 - 110		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*26 - 141*
Dibromofluoromethane (Surr)	*101*		*37 - 122*
1,2-Dichloroethane-d4 (Surr)	*101*		*39 - 128*
Toluene-d8 (Surr)	*106*		*33 - 134*

Lab Sample ID: 240-259-4 MS
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: LANDFILL-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits		
Acetone	24	U	121	108		ug/Kg	☼	89	10 - 142		
Benzene	6.0	U	60.5	46.9		ug/Kg	☼	78	10 - 199		
Bromodichloromethane	6.0	U	60.5	38.3		ug/Kg	☼	63	18 - 133		
Bromoform	6.0	U	60.5	23.7		ug/Kg	☼	39	10 - 147		
Bromomethane	12	U	60.5	55.4		ug/Kg	☼	92	10 - 151		
2-Butanone (MEK)	24	U	121	86.7		ug/Kg	☼	72	10 - 172		
Carbon disulfide	6.0	U	60.5	40.6		ug/Kg	☼	67	10 - 155		
Carbon tetrachloride	6.0	U	60.5	46.7		ug/Kg	☼	77	12 - 135		
Chlorobenzene	6.0	U	60.5	33.0		ug/Kg	☼	55	47 - 118		
Chloroethane	12	U *	60.5	138	F	ug/Kg	☼	229	10 - 168		
Chloroform	6.0	U	60.5	53.8		ug/Kg	☼	89	51 - 120		
Chloromethane	12	U	60.5	57.4		ug/Kg	☼	95	16 - 115		
cis-1,2-Dichloroethene	3.0	U	60.5	53.7		ug/Kg	☼	89	34 - 137		
cis-1,3-Dichloropropene	6.0	U	60.5	30.1		ug/Kg	☼	50	19 - 121		
Dibromochloromethane	6.0	U	60.5	29.9		ug/Kg	☼	49	10 - 128		
1,2-Dibromo-3-Chloropropane	12	U	60.5	23.5		ug/Kg	☼	39	10 - 137		
1,2-Dibromoethane	6.0	U	60.5	38.0		ug/Kg	☼	63	32 - 127		
1,2-Dichlorobenzene	6.0	U	60.5	26.8		ug/Kg	☼	44	27 - 126		
1,3-Dichlorobenzene	6.0	U	60.5	25.5		ug/Kg	☼	42	29 - 124		
1,4-Dichlorobenzene	6.0	U	60.5	23.5		ug/Kg	☼	39	30 - 123		
Dichlorodifluoromethane	12	U	60.5	50.0		ug/Kg	☼	83	10 - 113		
1,1-Dichloroethane	6.0	U	60.5	57.0		ug/Kg	☼	94	18 - 160		
1,2-Dichloroethane	0.77	J	60.5	50.6		ug/Kg	☼	82	25 - 150		
1,1-Dichloroethene	6.0	U	60.5	60.1		ug/Kg	☼	99	10 - 179		
1,2-Dichloropropane	6.0	U	60.5	42.8		ug/Kg	☼	71	58 - 118		
Ethylbenzene	6.0	U	60.5	34.1		ug/Kg	☼	56	27 - 143		
2-Hexanone	24	U	121	74.1		ug/Kg	☼	61	21 - 141		
Isopropylbenzene	6.0	U	60.5	34.2		ug/Kg	☼	57	39 - 126		
Methylene Chloride	18	B	60.5	83.7		ug/Kg	☼	108	10 - 148		
4-Methyl-2-pentanone (MIBK)	24	U	121	101		ug/Kg	☼	83	19 - 151		

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-259-4 MS
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: LANDFILL-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Methyl tert-butyl ether	24	U	60.5	61.2		ug/Kg	☼	101	26 - 159
m-Xylene & p-Xylene	6.0		121	65.8		ug/Kg	☼	54	14 - 151
n-Hexane	6.0	U	60.5	49.8		ug/Kg	☼	82	18 - 148
o-Xylene	3.0		60.5	37.1		ug/Kg	☼	61	18 - 151
Styrene	6.0	U	60.5	28.2		ug/Kg	☼	47	31 - 137
1,1,2,2-Tetrachloroethane	6.0	U	60.5	46.9		ug/Kg	☼	78	16 - 158
Tetrachloroethene	6.0	U	60.5	39.1		ug/Kg	☼	65	19 - 153
Toluene	6.0	U	60.5	39.7		ug/Kg	☼	66	10 - 168
trans-1,2-Dichloroethene	3.0	U	60.5	55.4		ug/Kg	☼	92	40 - 126
trans-1,3-Dichloropropene	6.0	U	60.5	26.8		ug/Kg	☼	44	10 - 136
1,2,4-Trichlorobenzene	6.0	U	60.5	16.7		ug/Kg	☼	28	10 - 136
1,1,1-Trichloroethane	6.0	U	60.5	55.2		ug/Kg	☼	91	10 - 159
1,1,2-Trichloroethane	6.0	U	60.5	43.3		ug/Kg	☼	72	34 - 152
Trichloroethene	6.0	U	60.5	40.4		ug/Kg	☼	67	10 - 193
Trichlorofluoromethane	12	U	60.5	62.4		ug/Kg	☼	103	10 - 157
Vinyl chloride	2.4	U	60.5	58.4		ug/Kg	☼	97	15 - 123

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*26 - 141*
Dibromofluoromethane (Surr)	*105*		*37 - 122*
1,2-Dichloroethane-d4 (Surr)	*103*		*39 - 128*
Toluene-d8 (Surr)	*108*		*33 - 134*

Lab Sample ID: 240-259-4 MSD
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: LANDFILL-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Acetone	24	U	121	124		ug/Kg	☼	102	10 - 142	13	30
Benzene	6.0	U	60.5	45.4		ug/Kg	☼	75	10 - 199	3	30
Bromodichloromethane	6.0	U	60.5	37.4		ug/Kg	☼	62	18 - 133	3	30
Bromoform	6.0	U	60.5	24.8		ug/Kg	☼	41	10 - 147	4	30
Bromomethane	12	U	60.5	58.3		ug/Kg	☼	96	10 - 151	5	30
2-Butanone (MEK)	24	U	121	91.0		ug/Kg	☼	75	10 - 172	5	30
Carbon disulfide	6.0	U	60.5	42.6		ug/Kg	☼	70	10 - 155	5	30
Carbon tetrachloride	6.0	U	60.5	46.2		ug/Kg	☼	76	12 - 135	1	30
Chlorobenzene	6.0	U	60.5	31.8		ug/Kg	☼	53	47 - 118	4	30
Chloroethane	12	U *	60.5	140	F	ug/Kg	☼	232	10 - 168	1	30
Chloroform	6.0	U	60.5	54.2		ug/Kg	☼	90	51 - 120	1	30
Chloromethane	12	U	60.5	56.0		ug/Kg	☼	93	16 - 115	3	30
cis-1,2-Dichloroethene	3.0	U	60.5	53.8		ug/Kg	☼	89	34 - 137	0	30
cis-1,3-Dichloropropene	6.0	U	60.5	28.9		ug/Kg	☼	48	19 - 121	4	30
Dibromochloromethane	6.0	U	60.5	31.0		ug/Kg	☼	51	10 - 128	4	30
1,2-Dibromo-3-Chloropropane	12	U	60.5	27.1		ug/Kg	☼	45	10 - 137	14	30
1,2-Dibromoethane	6.0	U	60.5	39.3		ug/Kg	☼	65	32 - 127	3	30
1,2-Dichlorobenzene	6.0	U	60.5	28.1		ug/Kg	☼	46	27 - 126	4	30
1,3-Dichlorobenzene	6.0	U	60.5	24.9		ug/Kg	☼	41	29 - 124	2	30
1,4-Dichlorobenzene	6.0	U	60.5	23.8		ug/Kg	☼	39	30 - 123	2	30
Dichlorodifluoromethane	12	U	60.5	49.0		ug/Kg	☼	81	10 - 113	2	30

Method: 8260A - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-259-4 MSD
Matrix: Solid
Analysis Batch: 2567

Client Sample ID: LANDFILL-4
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	6.0	U	60.5	56.5		ug/Kg	☼	93	18 - 160	1	30
1,2-Dichloroethane	0.77	J	60.5	50.1		ug/Kg	☼	82	25 - 150	1	30
1,1-Dichloroethene	6.0	U	60.5	60.0		ug/Kg	☼	99	10 - 179	0	30
1,2-Dichloropropane	6.0	U	60.5	43.2		ug/Kg	☼	71	58 - 118	1	30
Ethylbenzene	6.0	U	60.5	32.8		ug/Kg	☼	54	27 - 143	4	30
2-Hexanone	24	U	121	86.6		ug/Kg	☼	72	21 - 141	16	30
Isopropylbenzene	6.0	U	60.5	32.4		ug/Kg	☼	54	39 - 126	5	30
Methylene Chloride	18	B	60.5	84.1		ug/Kg	☼	109	10 - 148	0	30
4-Methyl-2-pentanone (MIBK)	24	U	121	114		ug/Kg	☼	94	19 - 151	12	30
Methyl tert-butyl ether	24	U	60.5	64.0		ug/Kg	☼	106	26 - 159	4	30
m-Xylene & p-Xylene	6.0		121	63.7		ug/Kg	☼	53	14 - 151	3	30
n-Hexane	6.0	U	60.5	47.4		ug/Kg	☼	78	18 - 148	5	30
o-Xylene	3.0		60.5	35.4		ug/Kg	☼	59	18 - 151	5	30
Styrene	6.0	U	60.5	27.0		ug/Kg	☼	45	31 - 137	4	30
1,1,2,2-Tetrachloroethane	6.0	U	60.5	54.9		ug/Kg	☼	91	16 - 158	16	30
Tetrachloroethene	6.0	U	60.5	37.3		ug/Kg	☼	62	19 - 153	5	30
Toluene	6.0	U	60.5	39.3		ug/Kg	☼	65	10 - 168	1	30
trans-1,2-Dichloroethene	3.0	U	60.5	55.4		ug/Kg	☼	92	40 - 126	0	30
trans-1,3-Dichloropropene	6.0	U	60.5	27.7		ug/Kg	☼	46	10 - 136	3	30
1,2,4-Trichlorobenzene	6.0	U	60.5	16.1		ug/Kg	☼	27	10 - 136	4	30
1,1,1-Trichloroethane	6.0	U	60.5	55.0		ug/Kg	☼	91	10 - 159	0	30
1,1,2-Trichloroethane	6.0	U	60.5	44.9		ug/Kg	☼	74	34 - 152	4	30
Trichloroethene	6.0	U	60.5	38.3		ug/Kg	☼	63	10 - 193	5	30
Trichlorofluoromethane	12	U	60.5	64.5		ug/Kg	☼	107	10 - 157	3	30
Vinyl chloride	2.4	U	60.5	57.7		ug/Kg	☼	95	15 - 123	1	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*26 - 141*
Dibromofluoromethane (Surr)	*107*		*37 - 122*
1,2-Dichloroethane-d4 (Surr)	*106*		*39 - 128*
Toluene-d8 (Surr)	*115*		*33 - 134*

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-2319/1-A
Matrix: Solid
Analysis Batch: 3192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Acenaphthylene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Anthracene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Benzo[a]anthracene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Benzo[a]pyrene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Benzo[b]fluoranthene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Benzo[g,h,i]perylene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Benzo[k]fluoranthene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Chrysene	6.7	U	6.7	1.1	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Dibenz(a,h)anthracene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-2319/1-A
Matrix: Solid
Analysis Batch: 3192

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Fluorene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
1-Methylnaphthalene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
2-Methylnaphthalene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Naphthalene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Phenanthrene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1
Pyrene	6.7	U	6.7	3.3	ug/Kg		05/21/11 13:30	06/01/11 10:03	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*38*		*34 - 110*	*05/21/11 13:30*	*06/01/11 10:03*	*1*
2-Fluorophenol (Surr)	*55*		*26 - 110*	*05/21/11 13:30*	*06/01/11 10:03*	*1*
Nitrobenzene-d5 (Surr)	*37*		*24 - 112*	*05/21/11 13:30*	*06/01/11 10:03*	*1*
Phenol-d5 (Surr)	*56*		*28 - 110*	*05/21/11 13:30*	*06/01/11 10:03*	*1*
Terphenyl-d14 (Surr)	*69*		*41 - 119*	*05/21/11 13:30*	*06/01/11 10:03*	*1*
2,4,6-Tribromophenol (Surr)	*32*		*10 - 118*	*05/21/11 13:30*	*06/01/11 10:03*	*1*

Lab Sample ID: LCS 240-2319/2-A
Matrix: Solid
Analysis Batch: 2815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2319

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits		
Acenaphthene			667	389		ug/Kg		58	46 - 110		
Acenaphthylene			667	411		ug/Kg		62	47 - 110		
Anthracene			667	481		ug/Kg		72	56 - 111		
Benzo[a]anthracene			667	491		ug/Kg		74	58 - 111		
Benzo[a]pyrene			667	433		ug/Kg		65	44 - 115		
Benzo[b]fluoranthene			667	527		ug/Kg		79	43 - 124		
Benzo[g,h,i]perylene			667	523		ug/Kg		78	44 - 120		
Benzo[k]fluoranthene			667	473		ug/Kg		71	38 - 122		
Chrysene			667	500		ug/Kg		75	56 - 111		
Dibenz(a,h)anthracene			667	531		ug/Kg		80	45 - 122		
Fluoranthene			667	506		ug/Kg		76	55 - 118		
Fluorene			667	432		ug/Kg		65	51 - 110		
Indeno[1,2,3-cd]pyrene			667	516		ug/Kg		77	45 - 121		
1-Methylnaphthalene			667	357		ug/Kg		53	10 - 130		
2-Methylnaphthalene			667	419		ug/Kg		63	46 - 110		
Naphthalene			667	335		ug/Kg		50	42 - 110		
Phenanthrene			667	472		ug/Kg		71	54 - 110		
Pyrene			667	479		ug/Kg		72	58 - 113		

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*58*		*34 - 110*
2-Fluorophenol (Surr)	*69*		*26 - 110*
Nitrobenzene-d5 (Surr)	*55*		*24 - 112*
Phenol-d5 (Surr)	*68*		*28 - 110*
Terphenyl-d14 (Surr)	*89*		*41 - 119*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 118*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 240-2314/1-A
Matrix: Solid
Analysis Batch: 2470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2314

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	33	U	33	21	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1221	33	U	33	16	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1232	33	U	33	14	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1242	33	U	33	13	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1248	33	U	33	17	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1254	33	U	33	17	ug/Kg		05/21/11 10:41	05/24/11 17:29	1
Aroclor 1260	33	U	33	17	ug/Kg		05/21/11 10:41	05/24/11 17:29	1

Surrogate	*MB % Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*10 - 196*	*05/21/11 10:41*	*05/24/11 17:29*	*1*
DCB Decachlorobiphenyl	*74*		*10 - 199*	*05/21/11 10:41*	*05/24/11 17:29*	*1*

Lab Sample ID: LCS 240-2314/2-A
Matrix: Solid
Analysis Batch: 2470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2314

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	333	264		ug/Kg		79	34 - 127
Aroclor 1260	333	260		ug/Kg		78	32 - 141

Surrogate	*LCS % Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*78*		*10 - 196*
DCB Decachlorobiphenyl	*85*		*10 - 199*

Lab Sample ID: 240-259-3 MS
Matrix: Solid
Analysis Batch: 2470

Client Sample ID: LANDFILL-3
Prep Type: Total/NA
Prep Batch: 2314

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Aroclor 1016	38	U	386	280		ug/Kg	☼	73	10 - 199
Aroclor 1260	38	U	386	287		ug/Kg	☼	74	10 - 199

Surrogate	*MS % Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*70*		*10 - 196*
DCB Decachlorobiphenyl	*87*		*10 - 199*

Lab Sample ID: 240-259-3 MSD
Matrix: Solid
Analysis Batch: 2470

Client Sample ID: LANDFILL-3
Prep Type: Total/NA
Prep Batch: 2314

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Aroclor 1016	38	U	386	272		ug/Kg	☼	71	10 - 199	3	30
Aroclor 1260	38	U	386	276		ug/Kg	☼	71	10 - 199	4	30

Surrogate	*MSD % Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*68*		*10 - 196*
DCB Decachlorobiphenyl	*84*		*10 - 199*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-2355/1-A
Matrix: Solid
Analysis Batch: 2517

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2355

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	0.113	J	20	0.071	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Cadmium	0.50	U	0.50	0.036	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Chromium	1.0	U	1.0	0.20	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Silver	1.0	U	1.0	0.10	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Arsenic	1.0	U	1.0	0.30	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Lead	0.30	U	0.30	0.19	mg/Kg		05/23/11 11:02	05/24/11 10:19	1
Selenium	0.50	U	0.50	0.45	mg/Kg		05/23/11 11:02	05/24/11 10:19	1

Lab Sample ID: LCS 240-2355/2-A
Matrix: Solid
Analysis Batch: 2517

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Barium	200	194		mg/Kg		97	80 - 120
Cadmium	5.00	4.83		mg/Kg		97	80 - 120
Chromium	20.0	19.5		mg/Kg		97	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Arsenic	200	186		mg/Kg		93	80 - 120
Lead	50.0	48.0		mg/Kg		96	80 - 120
Selenium	200	186		mg/Kg		93	80 - 120

Lab Sample ID: 240-259-1 MS
Matrix: Solid
Analysis Batch: 2517

Client Sample ID: LANDFILL-1
Prep Type: Total/NA
Prep Batch: 2355

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Barium	47	B	206	221		mg/Kg	☼	84	75 - 125
Cadmium	0.52	U	5.14	3.82	F	mg/Kg	☼	74	75 - 125
Chromium	11		20.6	30.1		mg/Kg	☼	91	75 - 125
Silver	1.0	U	5.14	4.19		mg/Kg	☼	81	75 - 125
Arsenic	14		206	186		mg/Kg	☼	84	75 - 125
Lead	12		51.4	55.2		mg/Kg	☼	84	75 - 125
Selenium	0.52	U	206	166		mg/Kg	☼	81	75 - 125

Lab Sample ID: 240-259-1 MSD
Matrix: Solid
Analysis Batch: 2517

Client Sample ID: LANDFILL-1
Prep Type: Total/NA
Prep Batch: 2355

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Barium	47	B	206	222		mg/Kg	☼	85	75 - 125	1	20
Cadmium	0.52	U	5.14	3.84		mg/Kg	☼	75	75 - 125	1	20
Chromium	11		20.6	29.1		mg/Kg	☼	86	75 - 125	3	20
Silver	1.0	U	5.14	4.17		mg/Kg	☼	81	75 - 125	0	20
Arsenic	14		206	182		mg/Kg	☼	81	75 - 125	3	20
Lead	12		51.4	54.0		mg/Kg	☼	81	75 - 125	2	20
Selenium	0.52	U	206	165		mg/Kg	☼	80	75 - 125	1	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 240-2362/1-A
Matrix: Solid
Analysis Batch: 2499

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2362

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10	U	0.10	0.015	mg/Kg		05/23/11 13:15	05/24/11 10:51	1

Lab Sample ID: LCS 240-2362/2-A
Matrix: Solid
Analysis Batch: 2499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.833	0.822		mg/Kg		99	73 - 121

Lab Sample ID: 240-259-1 MS
Matrix: Solid
Analysis Batch: 2499

Client Sample ID: LANDFILL-1
Prep Type: Total/NA
Prep Batch: 2362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.016	J	0.180	0.192		mg/Kg	☼	98	11 - 192

Lab Sample ID: 240-259-1 MSD
Matrix: Solid
Analysis Batch: 2499

Client Sample ID: LANDFILL-1
Prep Type: Total/NA
Prep Batch: 2362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	% Rec	% Rec. Limits	RPD	RPD Limit
Mercury	0.016	J	0.180	0.187		mg/Kg	☼	95	11 - 192	3	20

Lab Sample ID: MRL 240-2423/9-A MRL
Matrix: Solid
Analysis Batch: 2499

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2423

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	% Rec	% Rec. Limits
Mercury	0.200	0.208		ug/L		104	

GC/MS VOA

Analysis Batch: 2567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-2567/5	Lab Control Sample	Total/NA	Solid	8260A	
MB 240-2567/6	Method Blank	Total/NA	Solid	8260A	
240-259-1	LANDFILL-1	Total/NA	Solid	8260A	
240-259-2	LANDFILL-2	Total/NA	Solid	8260A	
240-259-3	LANDFILL-3	Total/NA	Solid	8260A	
240-259-4	LANDFILL-4	Total/NA	Solid	8260A	
240-259-4 MS	LANDFILL-4	Total/NA	Solid	8260A	
240-259-4 MSD	LANDFILL-4	Total/NA	Solid	8260A	

GC/MS Semi VOA

Prep Batch: 2319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2319/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-2319/2-A	Lab Control Sample	Total/NA	Solid	3540C	
240-259-1	LANDFILL-1	Total/NA	Solid	3540C	
240-259-2	LANDFILL-2	Total/NA	Solid	3540C	
240-259-3	LANDFILL-3	Total/NA	Solid	3540C	
240-259-4	LANDFILL-4	Total/NA	Solid	3540C	

Analysis Batch: 2815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-2319/2-A	Lab Control Sample	Total/NA	Solid	8270C	2319
240-259-1	LANDFILL-1	Total/NA	Solid	8270C	2319
240-259-2	LANDFILL-2	Total/NA	Solid	8270C	2319
240-259-3	LANDFILL-3	Total/NA	Solid	8270C	2319
240-259-4	LANDFILL-4	Total/NA	Solid	8270C	2319

Analysis Batch: 3192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2319/1-A	Method Blank	Total/NA	Solid	8270C	2319

GC Semi VOA

Prep Batch: 2314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2314/1-A	Method Blank	Total/NA	Solid	3540C	
LCS 240-2314/2-A	Lab Control Sample	Total/NA	Solid	3540C	
240-259-1	LANDFILL-1	Total/NA	Solid	3540C	
240-259-2	LANDFILL-2	Total/NA	Solid	3540C	
240-259-3	LANDFILL-3	Total/NA	Solid	3540C	
240-259-3 MS	LANDFILL-3	Total/NA	Solid	3540C	
240-259-3 MSD	LANDFILL-3	Total/NA	Solid	3540C	
240-259-4	LANDFILL-4	Total/NA	Solid	3540C	

Analysis Batch: 2470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-259-1	LANDFILL-1	Total/NA	Solid	8082	2314
240-259-2	LANDFILL-2	Total/NA	Solid	8082	2314
240-259-3	LANDFILL-3	Total/NA	Solid	8082	2314
240-259-3 MS	LANDFILL-3	Total/NA	Solid	8082	2314
240-259-3 MSD	LANDFILL-3	Total/NA	Solid	8082	2314

GC Semi VOA (Continued)

Analysis Batch: 2470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-259-4	LANDFILL-4	Total/NA	Solid	8082	2314
MB 240-2314/1-A	Method Blank	Total/NA	Solid	8082	2314
LCS 240-2314/2-A	Lab Control Sample	Total/NA	Solid	8082	2314

Metals

Prep Batch: 2355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2355/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 240-2355/2-A	Lab Control Sample	Total/NA	Solid	3050B	
240-259-1	LANDFILL-1	Total/NA	Solid	3050B	
240-259-1 MS	LANDFILL-1	Total/NA	Solid	3050B	
240-259-1 MSD	LANDFILL-1	Total/NA	Solid	3050B	
240-259-2	LANDFILL-2	Total/NA	Solid	3050B	
240-259-3	LANDFILL-3	Total/NA	Solid	3050B	
240-259-4	LANDFILL-4	Total/NA	Solid	3050B	

Prep Batch: 2362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2362/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 240-2362/2-A	Lab Control Sample	Total/NA	Solid	7471A	
240-259-1	LANDFILL-1	Total/NA	Solid	7471A	
240-259-1 MS	LANDFILL-1	Total/NA	Solid	7471A	
240-259-1 MSD	LANDFILL-1	Total/NA	Solid	7471A	
240-259-2	LANDFILL-2	Total/NA	Solid	7471A	
240-259-3	LANDFILL-3	Total/NA	Solid	7471A	
240-259-4	LANDFILL-4	Total/NA	Solid	7471A	

Prep Batch: 2423

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 240-2423/9-A MRL	Lab Control Sample	Total/NA	Solid	7471A	

Analysis Batch: 2499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MRL 240-2423/9-A MRL	Lab Control Sample	Total/NA	Solid	7471A	2423
MB 240-2362/1-A	Method Blank	Total/NA	Solid	7471A	2362
LCS 240-2362/2-A	Lab Control Sample	Total/NA	Solid	7471A	2362
240-259-1	LANDFILL-1	Total/NA	Solid	7471A	2362
240-259-1 MS	LANDFILL-1	Total/NA	Solid	7471A	2362
240-259-1 MSD	LANDFILL-1	Total/NA	Solid	7471A	2362
240-259-2	LANDFILL-2	Total/NA	Solid	7471A	2362
240-259-3	LANDFILL-3	Total/NA	Solid	7471A	2362
240-259-4	LANDFILL-4	Total/NA	Solid	7471A	2362

Analysis Batch: 2517

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 240-2355/1-A	Method Blank	Total/NA	Solid	6010B	2355
LCS 240-2355/2-A	Lab Control Sample	Total/NA	Solid	6010B	2355
240-259-1	LANDFILL-1	Total/NA	Solid	6010B	2355
240-259-1 MS	LANDFILL-1	Total/NA	Solid	6010B	2355
240-259-1 MSD	LANDFILL-1	Total/NA	Solid	6010B	2355
240-259-2	LANDFILL-2	Total/NA	Solid	6010B	2355

Metals (Continued)

Analysis Batch: 2517 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-259-3	LANDFILL-3	Total/NA	Solid	6010B	2355
240-259-4	LANDFILL-4	Total/NA	Solid	6010B	2355

Lab Chronicle

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Client Sample ID: LANDFILL-1

Lab Sample ID: 240-259-1

Date Collected: 05/16/11 09:30

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260A		1	2567	05/25/11 17:01	SM	TAL NC
Total/NA	Prep	3540C			2319	05/21/11 13:30	SM	TAL NC
Total/NA	Analysis	8270C		1	2815	05/27/11 13:29	JG	TAL NC
Total/NA	Prep	3540C			2314	05/21/11 10:41	SM	TAL NC
Total/NA	Analysis	8082		1	2470	05/24/11 14:34	LH	TAL NC
Total/NA	Prep	7471A			2362	05/23/11 13:15	DE	TAL NC
Total/NA	Analysis	7471A		1	2499	05/24/11 10:53	NJM	TAL NC
Total/NA	Prep	3050B			2355	05/23/11 11:02	DE	TAL NC
Total/NA	Analysis	6010B		1	2517	05/24/11 10:32	KC	TAL NC

Client Sample ID: LANDFILL-2

Lab Sample ID: 240-259-2

Date Collected: 05/16/11 09:34

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260A		1	2567	05/25/11 17:23	SM	TAL NC
Total/NA	Prep	3540C			2319	05/21/11 13:30	SM	TAL NC
Total/NA	Analysis	8270C		1	2815	05/27/11 13:47	JG	TAL NC
Total/NA	Prep	3540C			2314	05/21/11 10:41	SM	TAL NC
Total/NA	Analysis	8082		1	2470	05/24/11 14:48	LH	TAL NC
Total/NA	Prep	7471A			2362	05/23/11 13:15	DE	TAL NC
Total/NA	Analysis	7471A		1	2499	05/24/11 10:57	NJM	TAL NC
Total/NA	Prep	3050B			2355	05/23/11 11:02	DE	TAL NC
Total/NA	Analysis	6010B		1	2517	05/24/11 11:08	KC	TAL NC

Client Sample ID: LANDFILL-3

Lab Sample ID: 240-259-3

Date Collected: 05/16/11 09:38

Matrix: Solid

Date Received: 05/17/11 09:40

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260A		1	2567	05/25/11 17:44	SM	TAL NC
Total/NA	Prep	3540C			2319	05/21/11 13:30	SM	TAL NC
Total/NA	Analysis	8270C		1	2815	05/27/11 14:06	JG	TAL NC
Total/NA	Prep	3540C			2314	05/21/11 10:41	SM	TAL NC
Total/NA	Analysis	8082		1	2470	05/24/11 15:03	LH	TAL NC
Total/NA	Prep	7471A			2362	05/23/11 13:15	DE	TAL NC
Total/NA	Analysis	7471A		1	2499	05/24/11 10:58	NJM	TAL NC
Total/NA	Prep	3050B			2355	05/23/11 11:02	DE	TAL NC
Total/NA	Analysis	6010B		1	2517	05/24/11 11:15	KC	TAL NC

Lab Chronicle

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Client Sample ID: LANDFILL-4
Date Collected: 05/16/11 09:43
Date Received: 05/17/11 09:40

Lab Sample ID: 240-259-4
Matrix: Solid
Percent Solids: 82.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared Or Analyzed	Analyst	Lab
Total/NA	Analysis	8260A		1	2567	05/25/11 18:06	SM	TAL NC
Total/NA	Prep	3540C			2319	05/21/11 13:30	SM	TAL NC
Total/NA	Analysis	8270C		1	2815	05/27/11 14:24	JG	TAL NC
Total/NA	Prep	3540C			2314	05/21/11 10:41	SM	TAL NC
Total/NA	Analysis	8082		1	2470	05/24/11 15:47	LH	TAL NC
Total/NA	Prep	7471A			2362	05/23/11 13:15	DE	TAL NC
Total/NA	Analysis	7471A		1	2499	05/24/11 11:00	NJM	TAL NC
Total/NA	Prep	3050B			2355	05/23/11 11:02	DE	TAL NC
Total/NA	Analysis	6010B		1	2517	05/24/11 11:21	KC	TAL NC

Laboratory References:
TAL NC = TestAmerica North Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Ohio Environmental Protection Agency
Project/Site: Mansfield Stamping Plant

TestAmerica Job ID: 240-259-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica North Canton	ACLASS	DoD ELAP		ADE-1437
TestAmerica North Canton	California	NELAC	9	01144CA
TestAmerica North Canton	Connecticut	State Program	1	PH-0590
TestAmerica North Canton	Florida	NELAC	4	E87225
TestAmerica North Canton	Georgia	Georgia EPD	4	N/A
TestAmerica North Canton	Illinois	NELAC	5	200004
TestAmerica North Canton	Kansas	NELAC	7	E-10336
TestAmerica North Canton	Kentucky	State Program	4	58
TestAmerica North Canton	Minnesota	NELAC	5	039-999-348
TestAmerica North Canton	Nevada	State Program	9	OH-000482008A
TestAmerica North Canton	New Jersey	NELAC	2	OH001
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	New York	NELAC	2	10975
TestAmerica North Canton	Ohio	OVAP	5	CL0024
TestAmerica North Canton	Pennsylvania	NELAC	3	68-00340
TestAmerica North Canton	USDA	USDA		P330-08-00123
TestAmerica North Canton	West Virginia	West Virginia DEP	3	210
TestAmerica North Canton	Wisconsin	State Program	5	999518190

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Chain of Custody Record

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Guy Montfort	Site Contact: Denise Pohl	Lab Contact:	COC No:
Address: 250 W Court #200W	Telephone:	Telephone:	Telephone:	_____ of _____ COCs
City/State/Zip: Cincinnati OH 45202	Email: Guy.Montfort@tetratech.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:		TAT if different from below _____		Walk-in client ☐
Project Name: Mansfield	Method of Shipment/Carrier:	☐ 3 weeks		Lab pickup ☐
Project Number: 103S171404	Shipping/Tracking No:	☐ 2 weeks		Lab sampling ☐
PO #		☒ 1 week		Job/SDG No:
		☐ 2 days		
		☐ 1 day		

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C / Grab=G	VOC	MET	PAH	PCB	Sample Specific Notes / Special Instructions:
Landfill-1	5-16	0930				X							X		N	C	X	X	X	X	
-2		0934				|						|		|	|	|	|	|	|	
-3		0938				|						|		|	|	|	|	|	|	
-4		0943				|						|		|	|	|	|	|	|	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
V Farmer	TT	5-16 / 1030			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
		/			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA NL	5/17/11 0940

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TAL-0018 (1008)

TestAmerica Cooler Receipt Form/Narrative **Lot Number:** 259
North Canton Facility

Client Tetra Tech Project 103517404 By: (Signature)
Cooler Received on 5/17/11 Opened on 5/17/11
FedEx ☒ UPS ☐ DHL ☐ FAS ☐ Stetson ☐ Client Drop Off ☐ TestAmerica Courier ☐ Other
TestAmerica Cooler # C95 Multiple Coolers ☐ Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler(s)? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity Quantity Unsalvageable
   Were custody seals on the outside of cooler(s) signed and dated? Yes ☐ No ☐ NA ☒
   Were custody seals on the bottle(s)? Yes ☐ No ☒
   If YES, are there any exceptions?
2. Shippers' packing slip attached to the cooler(s)? Yes ☒ No ☐
3. Did custody papers accompany the sample(s)? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Were the custody papers signed in the appropriate place? Yes ☒ No ☐
5. Packing material used: Bubble Wrap ☒ Foam ☐ None ☐ Other
6. Cooler temperature upon receipt 1.6 °C See back of form for multiple coolers/temps ☐
   METHOD: IR ☒ Other ☐
   COOLANT: Wet Ice ☒ Blue Ice ☐ Dry Ice ☐ Water ☐ None ☐
7. Did all bottles arrive in good condition (Unbroken)? Yes ☒ No ☐
8. Could all bottle labels be reconciled with the COC? Yes ☒ No ☐
9. Were sample(s) at the correct pH upon receipt? Yes ☐ No ☐ NA ☒
10. Were correct bottle(s) used for the test(s) indicated? Yes ☒ No ☐
11. Were air bubbles >6 mm in any VOA vials? Yes ☐ No ☐ NA ☒
12. Sufficient quantity received to perform indicated analyses? Yes ☒ No ☐
13. Was a trip blank present in the cooler(s)? Yes ☐ No ☒ Were VOAs on the COC? Yes ☒ No ☐

Contacted PM Date by via Verbal ☐ Voice Mail ☐ Other ☐
Concerning

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) were further preserved in Sample Receiving to meet recommended pH level(s). *Nitric Acid Lot#* 100110-HNO_3; *Sulfuric Acid Lot#* 110410-H_2SO_4; *Sodium Hydroxide Lot#* 100108 -*NaOH; Hydrochloric Acid Lot#* 092006-*HCl; Sodium Hydroxide and Zinc Acetate Lot#* 100108-$(CH_3COO)_2ZN/NaOH$. What time was preservative added to sample(s)?

Client ID	pH	Date	Initials

TestAmerica Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Login Sample Receipt Checklist

Client: Ohio Environmental Protection Agency

Job Number: 240-259-1

Login Number: 259

List Number: 1

Creator: McFadden, John

List Source: TestAmerica North Canton

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Microbac

Laboratory Report Number: L11060205

Jackie Barr
Ohio Environmental Protection Agency
50 W. Town Street
Columbus, OH 43215

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

This report was reviewed on 06/10/2011 16:35

Amanda Fickiesen

Amanda Fickiesen – Client Services Specialist
(740) 373-4071
Amanda.Fickiesen@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed blow. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless speciified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be repordcuced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on 06/10/2011 16:35

David E. Vandenberg

David Vandenberg – Managing Director

State of Origin: OH
Accrediting Authority: N/A ID:N/A
QAPP: Ohio VAP - Certified Laboratory: CL0012

Microbac

Lab Report #: L11060205
Lab Project #: 2755.049
Project Name:
Lab Contact: Amanda Fickiesen

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

The following discrepancies were noted:

Discrepancy	Resolution
Received set of Trip Blank not on Chain of Custody. 6/2/11 @1720	Please add the Trip Blank (826-SPE)

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016039	H	3		345750551100000187565399572620 05

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers and labels intact and match COC?	No
7	Were the correct containers and volumes received?	Yes
8	Were samples received within EPA hold times?	Yes
9	Were correct perservatives used? (water only)	Yes
10	Were pH ranges acceptable? (voa's excluded)	Yes
11	Were VOA samples free of headspace (less than 6mm)?	Yes

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
MW5-2S	L11060205-01	06/02/2011 08:25	06/03/2011 11:15
MW5-2D	L11060205-02	06/02/2011 09:52	06/03/2011 11:15
MW5-4	L11060205-03	06/02/2011 11:25	06/03/2011 11:15
MW5-1	L11060205-04	06/02/2011 13:26	06/03/2011 11:15
MW4-7	L11060205-05	06/02/2011 17:15	06/03/2011 11:15
MW2-1	L11060205-06	06/02/2011 15:06	06/03/2011 11:15
MW2-2	L11060205-07	06/02/2011 16:00	06/03/2011 11:15
MW10-2	L11060205-08	06/02/2011 13:50	06/03/2011 11:15
MW10-2-MS	L11060205-09	06/02/2011 13:50	06/03/2011 11:15
MW10-2-MSD	L11060205-10	06/02/2011 13:50	06/03/2011 11:15
DUPLICATE 6211	L11060205-11	06/02/2011 13:50	06/03/2011 11:15
TRIP BLANK	L11060205-12	06/02/2011 00:01	06/03/2011 11:15

Login Number: L11060205

Department: Volatiles

Analyst: Mary Schilling

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane, Vinyl Acetate. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: Recoveries out of range were observed for the following analytes: 2-Chloroethyl vinyl ether. Please see the applicable QC report for a detailed presentation of the failures.

SAMPLES

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 30117
Approved By: Michael Albertson

Login Number: L11060205

Department: Metals

Analyst: Kim Rhodes

METHOD

Preparation: SW-846 3005

Analysis: SW-846 6010

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG367052 - All acceptance criteria were met.

Matrix Spikes: WG367052 - Sample 08 was chosen by the client for MS/MSD analysis. Samples 09(MS) and 10(MSD) met all acceptance criteria.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 30074
Approved By: Sheri Pfalzgraf

Login Number: L11060205

Department: Metals - AA

Analyst: Pierce Morris

METHOD

Preparation: SW-846 7470

Analysis: SW-846 7470

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Interference Check Standards: All acceptance criteria were met.

Continuing Calibration Verification: All acceptance criteria were met.

Continuing Calibration Blank: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Serial Dilution/Post Digestion Spikes: WG367024 - All acceptance criteria were met.

Matrix Spikes: WG367024 - Sample 08 was chosen by the client for MS/MSD analysis. Samples 09(MS) and 10(MSD) met all acceptance criteria.

SAMPLES

Samples: All acceptance criteria were met.

Narrative ID: 30089
Approved By: Sheri Pfalzgraf

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-01**
Client ID: **MW5-2S**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 08:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:25**
File ID: **P2.060811.192558**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0112		0.0100	0.00500

Sample Number: **L11060205-01**
Client ID: **MW5-2S**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 08:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 18:18**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 18:18**
File ID: **8M370919**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	5.00	0.125
Bromobenzene	108-86-1		U	5.00	0.125
Bromochloromethane	74-97-5		U	5.00	0.200
Bromodichloromethane	75-27-4		U	5.00	0.250
Bromoform	75-25-2		U	5.00	0.500
Bromomethane	74-83-9		U	10.0	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	5.00	0.250
sec-Butylbenzene	135-98-8		U	5.00	0.250
tert-Butylbenzene	98-06-6		U	5.00	0.250
Carbon disulfide	75-15-0		U	5.00	0.500
Carbon tetrachloride	56-23-5		U	5.00	0.250
Chlorobenzene	108-90-7		U	5.00	0.125
Chlorodibromomethane	124-48-1		U	5.00	0.250
Chloroethane	75-00-3		U	10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	5.00	0.125
Chloromethane	74-87-3		U	10.0	0.500
2-Chlorotoluene	95-49-8		U	5.00	0.125
4-Chlorotoluene	106-43-4		U	5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	5.00	0.250
Dibromomethane	74-95-3		U	5.00	0.250
1,2-Dichlorobenzene	95-50-1		U	5.00	0.125
1,3-Dichlorobenzene	541-73-1		U	5.00	0.250
1,4-Dichlorobenzene	106-46-7		U	5.00	0.125
Dichlorodifluoromethane	75-71-8		U	10.0	0.250
1,1-Dichloroethane	75-34-3		U	5.00	0.125
1,2-Dichloroethane	107-06-2		U	5.00	0.250
1,1-Dichloroethene	75-35-4		U	5.00	0.500
cis-1,2-Dichloroethene	156-59-2	3.59	J	5.00	0.250
trans-1,2-Dichloroethene	156-60-5	0.552	J	5.00	0.250
1,2-Dichloropropane	78-87-5		U	5.00	0.200
1,3-Dichloropropane	142-28-9		U	5.00	0.200
2,2-Dichloropropane	594-20-7		U	5.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	5.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	5.00	0.500
1,1-Dichloropropene	563-58-6		U	5.00	0.250
Ethylbenzene	100-41-4		U	5.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	5.00	0.250

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-01**
Client ID: **MW5-2S**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 08:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 18:18**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 18:18**
File ID: **8M370919**

Analyte	CAS. Number	Result	Qual	RL	MDL
Isopropylbenzene	98-82-8		U	5.00	0.250
p-Isopropyltoluene	99-87-6		U	5.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
n-Hexane	110-54-3		U	5.00	1.00
Naphthalene	91-20-3		U	10.0	0.200
n-Propylbenzene	103-65-1		U	5.00	0.125
Styrene	100-42-5		U	5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.200
Tetrachloroethene	127-18-4	0.843	J	5.00	0.250
Toluene	108-88-3		U	5.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	5.00	0.200
1,1,1-Trichloroethane	71-55-6		U	5.00	0.250
1,1,2-Trichloroethane	79-00-5		U	5.00	0.250
Trichloroethene	79-01-6	7.66		5.00	0.250
Trichlorofluoromethane	75-69-4		U	10.0	0.250
1,2,3-Trichloropropane	96-18-4		U	5.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	5.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	5.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4	0.590	J	10.0	0.250
o-Xylene	95-47-6		U	5.00	0.250
m-,p-Xylene	179601-23-1		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	95.5	86	118	
1,2-Dichloroethane-d4	96.5	80	120	
Toluene-d8	94.0	88	110	
4-Bromofluorobenzene	96.7	86	115	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-02**
Client ID: **MW5-2D**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 09:52**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:32**
File ID: **P2.060811.193236**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0188		0.0100	0.00500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-03**
Client ID: **MW5-4**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:39**
File ID: **P2.060811.193914**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0465		0.0100	0.00500

Sample Number: **L11060205-04**
Client ID: **MW5-1**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 13:26**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:46**
File ID: **P2.060811.194637**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0207		0.0100	0.00500

Sample Number: **L11060205-05**
Client ID: **MW4-7**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 17:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:53**
File ID: **P2.060811.195316**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.00911	J	0.0100	0.00500

J The analyte was positively identified, but the quantitation was below the RL

Sample Number: **L11060205-05**
Client ID: **MW4-7**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 17:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 18:50**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 18:50**
File ID: **8M370920**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	5.00	0.125
Bromobenzene	108-86-1		U	5.00	0.125
Bromochloromethane	74-97-5		U	5.00	0.200
Bromodichloromethane	75-27-4		U	5.00	0.250
Bromoform	75-25-2		U	5.00	0.500
Bromomethane	74-83-9		U	10.0	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	5.00	0.250

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-05**
Client ID: **MW4-7**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 17:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 18:50**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 18:50**
File ID: **8M370920**

Analyte	CAS. Number	Result	Qual	RL	MDL
sec-Butylbenzene	135-98-8		U	5.00	0.250
tert-Butylbenzene	98-06-6		U	5.00	0.250
Carbon disulfide	75-15-0		U	5.00	0.500
Carbon tetrachloride	56-23-5		U	5.00	0.250
Chlorobenzene	108-90-7		U	5.00	0.125
Chlorodibromomethane	124-48-1		U	5.00	0.250
Chloroethane	75-00-3		U	10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	5.00	0.125
Chloromethane	74-87-3		U	10.0	0.500
2-Chlorotoluene	95-49-8		U	5.00	0.125
4-Chlorotoluene	106-43-4		U	5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	5.00	0.250
Dibromomethane	74-95-3		U	5.00	0.250
1,2-Dichlorobenzene	95-50-1		U	5.00	0.125
1,3-Dichlorobenzene	541-73-1		U	5.00	0.250
1,4-Dichlorobenzene	106-46-7		U	5.00	0.125
Dichlorodifluoromethane	75-71-8		U	10.0	0.250
1,1-Dichloroethane	75-34-3	21.7		5.00	0.125
1,2-Dichloroethane	107-06-2		U	5.00	0.250
1,1-Dichloroethene	75-35-4		U	5.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	5.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	5.00	0.250
1,2-Dichloropropane	78-87-5		U	5.00	0.200
1,3-Dichloropropane	142-28-9		U	5.00	0.200
2,2-Dichloropropane	594-20-7		U	5.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	5.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	5.00	0.500
1,1-Dichloropropene	563-58-6		U	5.00	0.250
Ethylbenzene	100-41-4		U	5.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	5.00	0.250
Isopropylbenzene	98-82-8		U	5.00	0.250
p-Isopropyltoluene	99-87-6		U	5.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
n-Hexane	110-54-3		U	5.00	1.00
Naphthalene	91-20-3		U	10.0	0.200
n-Propylbenzene	103-65-1		U	5.00	0.125
Styrene	100-42-5		U	5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.200
Tetrachloroethene	127-18-4		U	5.00	0.250
Toluene	108-88-3		U	5.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	5.00	0.200
1,1,1-Trichloroethane	71-55-6	57.1		5.00	0.250
1,1,2-Trichloroethane	79-00-5		U	5.00	0.250
Trichloroethene	79-01-6		U	5.00	0.250
Trichlorofluoromethane	75-69-4		U	10.0	0.250
1,2,3-Trichloropropane	96-18-4		U	5.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	5.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	5.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	10.0	0.250
o-Xylene	95-47-6		U	5.00	0.250
m-,p-Xylene	179601-23-1		U	5.00	0.500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-05**
Client ID: **MW4-7**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 17:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 18:50**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 18:50**
File ID: **8M370920**

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	97.0	86	118	
1,2-Dichloroethane-d4	96.0	80	120	
Toluene-d8	92.8	88	110	
4-Bromofluorobenzene	96.0	86	115	

U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-06**
Client ID: **MW2-1**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 15:06**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 19:59**
File ID: **P2.060811.195958**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0383		0.0100	0.00500

Sample Number: **L11060205-07**
Client ID: **MW2-2**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 16:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 20:19**
File ID: **P2.060811.201953**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.0294		0.0100	0.00500

Sample Number: **L11060205-08**
Client ID: **MW10-2**
Matrix: **Water**
Workgroup Number: **WG367024**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **06/08/2011 08:48**
Cal Date: **06/09/2011 08:42**
Run Date: **06/09/2011 09:36**
File ID: **HY.060911.093645**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100

U Not detected at or above the reporting limit (RL).

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-08**
Client ID: **MW10-2**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 20:26**
File ID: **P2.060811.202632**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2		U	0.0100	0.00500
Barium, Dissolved	7440-39-3	0.0629		0.0100	0.00500
Cadmium, Dissolved	7440-43-9		U	0.0100	0.00500
Chromium, Dissolved	7440-47-3		U	0.0200	0.0100
Lead, Dissolved	7439-92-1	0.0148		0.00500	0.00250
Selenium, Dissolved	7782-49-2	0.105		0.0100	0.00500
Silver, Dissolved	7440-22-4	0.00643	J	0.0100	0.00500

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-08**
Client ID: **MW10-2**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 15:40**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 15:40**
File ID: **8M370914**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	5.00	0.125
Bromobenzene	108-86-1		U	5.00	0.125
Bromochloromethane	74-97-5		U	5.00	0.200
Bromodichloromethane	75-27-4		U	5.00	0.250
Bromoform	75-25-2		U	5.00	0.500
Bromomethane	74-83-9		U	10.0	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	5.00	0.250
sec-Butylbenzene	135-98-8		U	5.00	0.250
tert-Butylbenzene	98-06-6		U	5.00	0.250
Carbon disulfide	75-15-0		U	5.00	0.500
Carbon tetrachloride	56-23-5		U	5.00	0.250
Chlorobenzene	108-90-7		U	5.00	0.125
Chlorodibromomethane	124-48-1		U	5.00	0.250
Chloroethane	75-00-3		U	10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	5.00	0.125
Chloromethane	74-87-3		U	10.0	0.500
2-Chlorotoluene	95-49-8		U	5.00	0.125
4-Chlorotoluene	106-43-4		U	5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	5.00	0.250
Dibromomethane	74-95-3		U	5.00	0.250
1,2-Dichlorobenzene	95-50-1		U	5.00	0.125
1,3-Dichlorobenzene	541-73-1		U	5.00	0.250
1,4-Dichlorobenzene	106-46-7		U	5.00	0.125
Dichlorodifluoromethane	75-71-8		U	10.0	0.250
1,1-Dichloroethane	75-34-3		U	5.00	0.125
1,2-Dichloroethane	107-06-2		U	5.00	0.250
1,1-Dichloroethene	75-35-4		U	5.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	5.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	5.00	0.250
1,2-Dichloropropane	78-87-5		U	5.00	0.200
1,3-Dichloropropane	142-28-9		U	5.00	0.200
2,2-Dichloropropane	594-20-7		U	5.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	5.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	5.00	0.500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-08**
Client ID: **MW10-2**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 15:40**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 15:40**
File ID: **8M370914**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1-Dichloropropene	563-58-6		U	5.00	0.250
Ethylbenzene	100-41-4		U	5.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	5.00	0.250
Isopropylbenzene	98-82-8		U	5.00	0.250
p-Isopropyltoluene	99-87-6		U	5.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
n-Hexane	110-54-3		U	5.00	1.00
Naphthalene	91-20-3		U	10.0	0.200
n-Propylbenzene	103-65-1		U	5.00	0.125
Styrene	100-42-5		U	5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.200
Tetrachloroethene	127-18-4		U	5.00	0.250
Toluene	108-88-3		U	5.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	5.00	0.200
1,1,1-Trichloroethane	71-55-6		U	5.00	0.250
1,1,2-Trichloroethane	79-00-5		U	5.00	0.250
Trichloroethene	79-01-6		U	5.00	0.250
Trichlorofluoromethane	75-69-4		U	10.0	0.250
1,2,3-Trichloropropane	96-18-4		U	5.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	5.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	5.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	10.0	0.250
o-Xylene	95-47-6		U	5.00	0.250
m-,p-Xylene	179601-23-1		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	96.1	86	118	
1,2-Dichloroethane-d4	95.9	80	120	
Toluene-d8	93.7	88	110	
4-Bromofluorobenzene	97.0	86	115	

U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-09**
Client ID: **MW10-2-MS**
Matrix: **Water**
Workgroup Number: **WG367024**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **06/08/2011 08:47**
Cal Date: **06/09/2011 08:42**
Run Date: **06/09/2011 09:38**
File ID: **HY.060911.093831**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Dissolved	7439-97-6	0.00501		0.000222	0.000111

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-09**
Client ID: **MW10-2-MS**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 20:33**
File ID: **P2.060811.203312**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.206		0.0100	0.00500
Barium, Dissolved	7440-39-3	0.585		0.0100	0.00500
Cadmium, Dissolved	7440-43-9	0.0244		0.0100	0.00500
Chromium, Dissolved	7440-47-3	0.266		0.0200	0.0100
Lead, Dissolved	7439-92-1	0.278		0.00500	0.00250
Selenium, Dissolved	7782-49-2	0.303		0.0100	0.00500
Silver, Dissolved	7440-22-4	0.210		0.0100	0.00500

Sample Number: **L11060205-09**
Client ID: **MW10-2-MS**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 13:34**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 13:34**
File ID: **8M370910**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1	21.7		10.0	2.50
Benzene	71-43-2	19.5		5.00	0.125
Bromobenzene	108-86-1	18.4		5.00	0.125
Bromochloromethane	74-97-5	19.8		5.00	0.200
Bromodichloromethane	75-27-4	18.9		5.00	0.250
Bromoform	75-25-2	18.5		5.00	0.500
Bromomethane	74-83-9	20.8		10.0	0.500
2-Butanone	78-93-3	21.1		10.0	2.50
n-Butylbenzene	104-51-8	18.4		5.00	0.250
sec-Butylbenzene	135-98-8	18.4		5.00	0.250
tert-Butylbenzene	98-06-6	18.1		5.00	0.250
Carbon disulfide	75-15-0	20.0		5.00	0.500
Carbon tetrachloride	56-23-5	18.4		5.00	0.250
Chlorobenzene	108-90-7	18.9		5.00	0.125
Chlorodibromomethane	124-48-1	19.0		5.00	0.250
Chloroethane	75-00-3	19.1		10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	18.8		5.00	0.125
Chloromethane	74-87-3	21.8		10.0	0.500
2-Chlorotoluene	95-49-8	18.7		5.00	0.125
4-Chlorotoluene	106-43-4	17.9		5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	17.9		5.00	1.00
1,2-Dibromoethane	106-93-4	20.0		5.00	0.250
Dibromomethane	74-95-3	19.4		5.00	0.250
1,2-Dichlorobenzene	95-50-1	19.1		5.00	0.125
1,3-Dichlorobenzene	541-73-1	18.5		5.00	0.250
1,4-Dichlorobenzene	106-46-7	18.3		5.00	0.125
Dichlorodifluoromethane	75-71-8	23.6		10.0	0.250
1,1-Dichloroethane	75-34-3	18.5		5.00	0.125
1,2-Dichloroethane	107-06-2	19.0		5.00	0.250
1,1-Dichloroethene	75-35-4	17.4		5.00	0.500
cis-1,2-Dichloroethene	156-59-2	19.3		5.00	0.250
trans-1,2-Dichloroethene	156-60-5	18.8		5.00	0.250
1,2-Dichloropropane	78-87-5	19.2		5.00	0.200
1,3-Dichloropropane	142-28-9	19.2		5.00	0.200
2,2-Dichloropropane	594-20-7	18.2		5.00	0.250
cis-1,3-Dichloropropene	10061-01-5	19.5		5.00	0.250
trans-1,3-Dichloropropene	10061-02-6	16.9		5.00	0.500
1,1-Dichloropropene	563-58-6	19.4		5.00	0.250
Ethylbenzene	100-41-4	18.7		5.00	0.250
2-Hexanone	591-78-6	21.2		10.0	2.50

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-09**
Client ID: **MW10-2-MS**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 13:34**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 13:34**
File ID: **8M370910**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorobutadiene	87-68-3	17.8		5.00	0.250
Isopropylbenzene	98-82-8	16.5		5.00	0.250
p-Isopropyltoluene	99-87-6	17.5		5.00	0.250
4-Methyl-2-pentanone	108-10-1	21.3		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
n-Hexane	110-54-3	20.8		5.00	1.00
Naphthalene	91-20-3	19.1		10.0	0.200
n-Propylbenzene	103-65-1	18.4		5.00	0.125
Styrene	100-42-5	18.8		5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.1		5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	19.8		5.00	0.200
Tetrachloroethene	127-18-4	17.8		5.00	0.250
Toluene	108-88-3	18.3		5.00	0.250
1,2,3-Trichlorobenzene	87-61-6	18.2		5.00	0.150
1,2,4-Trichlorobenzene	120-82-1	17.6		5.00	0.200
1,1,1-Trichloroethane	71-55-6	18.6		5.00	0.250
1,1,2-Trichloroethane	79-00-5	19.6		5.00	0.250
Trichloroethene	79-01-6	18.9		5.00	0.250
Trichlorofluoromethane	75-69-4	17.0		10.0	0.250
1,2,3-Trichloropropane	96-18-4	19.4		5.00	0.500
1,2,4-Trimethylbenzene	95-63-6	18.9		5.00	0.250
1,3,5-Trimethylbenzene	108-67-8	19.2		5.00	0.250
Vinyl acetate	108-05-4	22.9		10.0	2.50
Vinyl chloride	75-01-4	19.9		10.0	0.250
o-Xylene	95-47-6	19.2		5.00	0.250
m-,p-Xylene	179601-23-1	37.4		5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	95.9	86	118	
1,2-Dichloroethane-d4	93.4	80	120	
Toluene-d8	92.8	88	110	
4-Bromofluorobenzene	97.8	86	115	

U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-10**
Client ID: **MW10-2-MSD**
Matrix: **Water**
Workgroup Number: **WG367024**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **06/08/2011 08:47**
Cal Date: **06/09/2011 08:42**
Run Date: **06/09/2011 09:40**
File ID: **HY.060911.094014**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Dissolved	7439-97-6	0.00488		0.000222	0.000111

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-10**
Client ID: **MW10-2-MSD**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 20:39**
File ID: **P2.060811.203955**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.215		0.0100	0.00500
Barium, Dissolved	7440-39-3	0.589		0.0100	0.00500
Cadmium, Dissolved	7440-43-9	0.0252		0.0100	0.00500
Chromium, Dissolved	7440-47-3	0.268		0.0200	0.0100
Lead, Dissolved	7439-92-1	0.276		0.00500	0.00250
Selenium, Dissolved	7782-49-2	0.302		0.0100	0.00500
Silver, Dissolved	7440-22-4	0.214		0.0100	0.00500

Sample Number: **L11060205-10**
Client ID: **MW10-2-MSD**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 14:05**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 14:05**
File ID: **8M370911**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1	22.8		10.0	2.50
Benzene	71-43-2	20.0		5.00	0.125
Bromobenzene	108-86-1	19.0		5.00	0.125
Bromochloromethane	74-97-5	20.4		5.00	0.200
Bromodichloromethane	75-27-4	19.8		5.00	0.250
Bromoform	75-25-2	19.4		5.00	0.500
Bromomethane	74-83-9	21.1		10.0	0.500
2-Butanone	78-93-3	21.4		10.0	2.50
n-Butylbenzene	104-51-8	19.0		5.00	0.250
sec-Butylbenzene	135-98-8	18.9		5.00	0.250
tert-Butylbenzene	98-06-6	19.0		5.00	0.250
Carbon disulfide	75-15-0	20.4		5.00	0.500
Carbon tetrachloride	56-23-5	18.8		5.00	0.250
Chlorobenzene	108-90-7	19.3		5.00	0.125
Chlorodibromomethane	124-48-1	19.6		5.00	0.250
Chloroethane	75-00-3	19.8		10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3	19.5		5.00	0.125
Chloromethane	74-87-3	22.3		10.0	0.500
2-Chlorotoluene	95-49-8	19.3		5.00	0.125
4-Chlorotoluene	106-43-4	18.1		5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8	18.2		5.00	1.00
1,2-Dibromoethane	106-93-4	20.5		5.00	0.250
Dibromomethane	74-95-3	20.3		5.00	0.250
1,2-Dichlorobenzene	95-50-1	19.4		5.00	0.125
1,3-Dichlorobenzene	541-73-1	18.5		5.00	0.250
1,4-Dichlorobenzene	106-46-7	18.8		5.00	0.125
Dichlorodifluoromethane	75-71-8	24.4		10.0	0.250
1,1-Dichloroethane	75-34-3	19.5		5.00	0.125
1,2-Dichloroethane	107-06-2	19.7		5.00	0.250
1,1-Dichloroethene	75-35-4	18.5		5.00	0.500
cis-1,2-Dichloroethene	156-59-2	20.3		5.00	0.250
trans-1,2-Dichloroethene	156-60-5	19.7		5.00	0.250
1,2-Dichloropropane	78-87-5	19.6		5.00	0.200
1,3-Dichloropropane	142-28-9	19.7		5.00	0.200
2,2-Dichloropropane	594-20-7	18.9		5.00	0.250
cis-1,3-Dichloropropene	10061-01-5	19.8		5.00	0.250
trans-1,3-Dichloropropene	10061-02-6	17.8		5.00	0.500
1,1-Dichloropropene	563-58-6	20.0		5.00	0.250
Ethylbenzene	100-41-4	19.5		5.00	0.250
2-Hexanone	591-78-6	22.3		10.0	2.50

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-10**
Client ID: **MW10-2-MSD**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 14:05**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 14:05**
File ID: **8M370911**

Analyte	CAS. Number	Result	Qual	RL	MDL
Hexachlorobutadiene	87-68-3	18.2		5.00	0.250
Isopropylbenzene	98-82-8	17.0		5.00	0.250
p-Isopropyltoluene	99-87-6	18.1		5.00	0.250
4-Methyl-2-pentanone	108-10-1	21.9		10.0	2.50
Methylene chloride	75-09-2	18.7		5.00	0.250
n-Hexane	110-54-3	21.2		5.00	1.00
Naphthalene	91-20-3	19.5		10.0	0.200
n-Propylbenzene	103-65-1	18.9		5.00	0.125
Styrene	100-42-5	19.0		5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6	19.3		5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5	20.2		5.00	0.200
Tetrachloroethene	127-18-4	18.8		5.00	0.250
Toluene	108-88-3	18.7		5.00	0.250
1,2,3-Trichlorobenzene	87-61-6	18.7		5.00	0.150
1,2,4-Trichlorobenzene	120-82-1	18.2		5.00	0.200
1,1,1-Trichloroethane	71-55-6	19.5		5.00	0.250
1,1,2-Trichloroethane	79-00-5	20.4		5.00	0.250
Trichloroethene	79-01-6	19.6		5.00	0.250
Trichlorofluoromethane	75-69-4	18.0		10.0	0.250
1,2,3-Trichloropropane	96-18-4	20.0		5.00	0.500
1,2,4-Trimethylbenzene	95-63-6	19.3		5.00	0.250
1,3,5-Trimethylbenzene	108-67-8	19.4		5.00	0.250
Vinyl acetate	108-05-4	23.0		10.0	2.50
Vinyl chloride	75-01-4	20.0		10.0	0.250
o-Xylene	95-47-6	19.3		5.00	0.250
m-,p-Xylene	179601-23-1	38.3		5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	97.3	86	118	
1,2-Dichloroethane-d4	95.8	80	120	
Toluene-d8	93.4	88	110	
4-Bromofluorobenzene	97.5	86	115	

U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-11**
Client ID: **DUPLICATE 6211**
Matrix: **Water**
Workgroup Number: **WG367024**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **7470A**
Analytical Method: **7470A**
Analyst: **PDM**
Dilution: **1**
Units: **mg/L**

Instrument: **HYDRA**
Prep Date: **06/08/2011 08:48**
Cal Date: **06/09/2011 08:42**
Run Date: **06/09/2011 09:41**
File ID: **HY.060911.094157**

Analyte	CAS. Number	Result	Qual	RL	MDL
Mercury, Dissolved	7439-97-6		U	0.000200	0.000100

U Not detected at or above the reporting limit (RL).

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-11**
Client ID: **DUPLICATE 6211**
Matrix: **Water**
Workgroup Number: **WG367052**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3005A**
Analytical Method: **6010B**
Analyst: **KHR**
Dilution: **1**
Units: **mg/L**

Instrument: **PE-ICP2**
Prep Date: **06/08/2011 08:31**
Cal Date: **06/08/2011 14:59**
Run Date: **06/08/2011 20:46**
File ID: **P2.060811.204638**

Analyte	CAS. Number	Result	Qual	RL	MDL
Arsenic, Dissolved	7440-38-2	0.00580	J	0.0100	0.00500
Barium, Dissolved	7440-39-3	0.0692		0.0100	0.00500
Cadmium, Dissolved	7440-43-9		U	0.0100	0.00500
Chromium, Dissolved	7440-47-3		U	0.0200	0.0100
Lead, Dissolved	7439-92-1	0.0135		0.00500	0.00250
Selenium, Dissolved	7782-49-2	0.0909		0.0100	0.00500
Silver, Dissolved	7440-22-4	0.00600	J	0.0100	0.00500

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-11**
Client ID: **DUPLICATE 6211**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 19:22**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 19:22**
File ID: **8M370921**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1		U	10.0	2.50
Benzene	71-43-2		U	5.00	0.125
Bromobenzene	108-86-1		U	5.00	0.125
Bromochloromethane	74-97-5		U	5.00	0.200
Bromodichloromethane	75-27-4		U	5.00	0.250
Bromoform	75-25-2		U	5.00	0.500
Bromomethane	74-83-9		U	10.0	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	5.00	0.250
sec-Butylbenzene	135-98-8		U	5.00	0.250
tert-Butylbenzene	98-06-6		U	5.00	0.250
Carbon disulfide	75-15-0		U	5.00	0.500
Carbon tetrachloride	56-23-5		U	5.00	0.250
Chlorobenzene	108-90-7		U	5.00	0.125
Chlorodibromomethane	124-48-1		U	5.00	0.250
Chloroethane	75-00-3		U	10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	5.00	0.125
Chloromethane	74-87-3		U	10.0	0.500
2-Chlorotoluene	95-49-8		U	5.00	0.125
4-Chlorotoluene	106-43-4		U	5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	5.00	0.250
Dibromomethane	74-95-3		U	5.00	0.250
1,2-Dichlorobenzene	95-50-1		U	5.00	0.125
1,3-Dichlorobenzene	541-73-1		U	5.00	0.250
1,4-Dichlorobenzene	106-46-7		U	5.00	0.125
Dichlorodifluoromethane	75-71-8		U	10.0	0.250
1,1-Dichloroethane	75-34-3		U	5.00	0.125
1,2-Dichloroethane	107-06-2		U	5.00	0.250
1,1-Dichloroethene	75-35-4		U	5.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	5.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	5.00	0.250
1,2-Dichloropropane	78-87-5		U	5.00	0.200
1,3-Dichloropropane	142-28-9		U	5.00	0.200
2,2-Dichloropropane	594-20-7		U	5.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	5.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	5.00	0.500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-11**
Client ID: **DUPLICATE 6211**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 13:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 19:22**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 19:22**
File ID: **8M370921**

Analyte	CAS. Number	Result	Qual	RL	MDL
1,1-Dichloropropene	563-58-6		U	5.00	0.250
Ethylbenzene	100-41-4		U	5.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	5.00	0.250
Isopropylbenzene	98-82-8		U	5.00	0.250
p-Isopropyltoluene	99-87-6		U	5.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2		U	5.00	0.250
n-Hexane	110-54-3		U	5.00	1.00
Naphthalene	91-20-3		U	10.0	0.200
n-Propylbenzene	103-65-1		U	5.00	0.125
Styrene	100-42-5		U	5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.200
Tetrachloroethene	127-18-4		U	5.00	0.250
Toluene	108-88-3		U	5.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	5.00	0.200
1,1,1-Trichloroethane	71-55-6		U	5.00	0.250
1,1,2-Trichloroethane	79-00-5		U	5.00	0.250
Trichloroethene	79-01-6		U	5.00	0.250
Trichlorofluoromethane	75-69-4		U	10.0	0.250
1,2,3-Trichloropropane	96-18-4		U	5.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	5.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	5.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	10.0	0.250
o-Xylene	95-47-6		U	5.00	0.250
m-,p-Xylene	179601-23-1		U	5.00	0.500

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	97.2	86	118	
1,2-Dichloroethane-d4	97.9	80	120	
Toluene-d8	93.3	88	110	
4-Bromofluorobenzene	97.2	86	115	

U Not detected at or above the reporting limit (RL).

Sample Number: **L11060205-12**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 15:09**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 15:09**
File ID: **8M370913**

Analyte	CAS. Number	Result	Qual	RL	MDL
Acetone	67-64-1	12.4		10.0	2.50
Benzene	71-43-2		U	5.00	0.125
Bromobenzene	108-86-1		U	5.00	0.125
Bromochloromethane	74-97-5		U	5.00	0.200
Bromodichloromethane	75-27-4		U	5.00	0.250
Bromoform	75-25-2		U	5.00	0.500
Bromomethane	74-83-9		U	10.0	0.500
2-Butanone	78-93-3		U	10.0	2.50
n-Butylbenzene	104-51-8		U	5.00	0.250
sec-Butylbenzene	135-98-8		U	5.00	0.250
tert-Butylbenzene	98-06-6		U	5.00	0.250
Carbon disulfide	75-15-0		U	5.00	0.500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-12**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 15:09**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 15:09**
File ID: **8M370913**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon tetrachloride	56-23-5		U	5.00	0.250
Chlorobenzene	108-90-7		U	5.00	0.125
Chlorodibromomethane	124-48-1		U	5.00	0.250
Chloroethane	75-00-3		U	10.0	0.500
2-Chloroethyl vinyl ether	110-75-8		U	10.0	2.00
Chloroform	67-66-3		U	5.00	0.125
Chloromethane	74-87-3		U	10.0	0.500
2-Chlorotoluene	95-49-8		U	5.00	0.125
4-Chlorotoluene	106-43-4		U	5.00	0.250
1,2-Dibromo-3-chloropropane	96-12-8		U	5.00	1.00
1,2-Dibromoethane	106-93-4		U	5.00	0.250
Dibromomethane	74-95-3		U	5.00	0.250
1,2-Dichlorobenzene	95-50-1		U	5.00	0.125
1,3-Dichlorobenzene	541-73-1		U	5.00	0.250
1,4-Dichlorobenzene	106-46-7		U	5.00	0.125
Dichlorodifluoromethane	75-71-8		U	10.0	0.250
1,1-Dichloroethane	75-34-3		U	5.00	0.125
1,2-Dichloroethane	107-06-2		U	5.00	0.250
1,1-Dichloroethene	75-35-4		U	5.00	0.500
cis-1,2-Dichloroethene	156-59-2		U	5.00	0.250
trans-1,2-Dichloroethene	156-60-5		U	5.00	0.250
1,2-Dichloropropane	78-87-5		U	5.00	0.200
1,3-Dichloropropane	142-28-9		U	5.00	0.200
2,2-Dichloropropane	594-20-7		U	5.00	0.250
cis-1,3-Dichloropropene	10061-01-5		U	5.00	0.250
trans-1,3-Dichloropropene	10061-02-6		U	5.00	0.500
1,1-Dichloropropene	563-58-6		U	5.00	0.250
Ethylbenzene	100-41-4		U	5.00	0.250
2-Hexanone	591-78-6		U	10.0	2.50
Hexachlorobutadiene	87-68-3		U	5.00	0.250
Isopropylbenzene	98-82-8		U	5.00	0.250
p-Isopropyltoluene	99-87-6		U	5.00	0.250
4-Methyl-2-pentanone	108-10-1		U	10.0	2.50
Methylene chloride	75-09-2	2.36	J	5.00	0.250
n-Hexane	110-54-3		U	5.00	1.00
Naphthalene	91-20-3	0.281	J	10.0	0.200
n-Propylbenzene	103-65-1		U	5.00	0.125
Styrene	100-42-5		U	5.00	0.125
1,1,1,2-Tetrachloroethane	630-20-6		U	5.00	0.250
1,1,2,2-Tetrachloroethane	79-34-5		U	5.00	0.200
Tetrachloroethene	127-18-4		U	5.00	0.250
Toluene	108-88-3		U	5.00	0.250
1,2,3-Trichlorobenzene	87-61-6		U	5.00	0.150
1,2,4-Trichlorobenzene	120-82-1		U	5.00	0.200
1,1,1-Trichloroethane	71-55-6		U	5.00	0.250
1,1,2-Trichloroethane	79-00-5		U	5.00	0.250
Trichloroethene	79-01-6		U	5.00	0.250
Trichlorofluoromethane	75-69-4		U	10.0	0.250
1,2,3-Trichloropropane	96-18-4		U	5.00	0.500
1,2,4-Trimethylbenzene	95-63-6		U	5.00	0.250
1,3,5-Trimethylbenzene	108-67-8		U	5.00	0.250
Vinyl acetate	108-05-4		U	10.0	2.50
Vinyl chloride	75-01-4		U	10.0	0.250
o-Xylene	95-47-6		U	5.00	0.250
m-,p-Xylene	179601-23-1		U	5.00	0.500

Report Number: **L11060205**
Report Date : **June 10, 2011**

Sample Number: **L11060205-12**
Client ID: **TRIP BLANK**
Matrix: **Water**
Workgroup Number: **WG366978**
Collect Date: **06/02/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **5030B/5030C/5035**
Analytical Method: **8260B**
Analyst: **MES**
Dilution: **1**
Units: **ug/L**

Instrument: **HPMS8**
Prep Date: **06/08/2011 15:09**
Cal Date: **06/03/2011 23:54**
Run Date: **06/08/2011 15:09**
File ID: **8M370913**

Surrogate	% Recovery	Lower	Upper	Qual
Dibromofluoromethane	96.6	86	118	
1,2-Dichloroethane-d4	95.5	80	120	
Toluene-d8	94.5	88	110	
4-Bromofluorobenzene	96.2	86	115	

J The analyte was positively identified, but the quantitation was below the RL
U Not detected at or above the reporting limit (RL).

Microbac Laboratories Inc.
List of Valid Qualifiers
June 10, 2011

Qualkey: ND_TO_U

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
BB	Analyte present in the method blank.
C	Confirmed by GC/MS
CG	Confluent growth
D	The analyte was quantified at a secondary dilution factor
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FF	The analyte was positively identified, but the quantitation was below the RL
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated concentration.
J	The analyte was positively identified, but the quantitation was below the RL
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	ESTIMATE & COLUMNS DON'T AGREE TO WITHIN 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
JJ	Estimated concentration due to interference
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Spike (MS/MSD) results suggest matrix effects
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
PP	Duplicate precision not met
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported MDL.
U	Not detected at or above the reporting limit (RL).
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

Qualkey: ND_TO_U

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound an are matrix dependent.

Organic QA/QC

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11060205
Work Group: WG366978
Blank File ID: 8M370902
Blank Sample ID: WG366978-01
Prep Date: 06/08/11 09:21
Instrument ID: HPMS8
Analyzed Date: 06/08/11 09:21
Method: 8260B
Analyst: MES

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG366978-02	8M370903	06/08/11 09:53	01
MW10-2-MS	L11060205-09	8M370910	06/08/11 13:34	01
MW10-2-MSD	L11060205-10	8M370911	06/08/11 14:05	01
TRIP BLANK	L11060205-12	8M370913	06/08/11 15:09	01
MW10-2	L11060205-08	8M370914	06/08/11 15:40	01
MW5-2S	L11060205-01	8M370919	06/08/11 18:18	01
MW4-7	L11060205-05	8M370920	06/08/11 18:50	01
DUPLICATE 6211	L11060205-11	8M370921	06/08/11 19:22	01

Report Name: BLANK_SUMMARY
PDF File ID: 2039512
Report generated 06/09/2011 13:50

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11060205 Prep Date:06/08/11 09:21 Sample ID:WG366978-01
Instrument ID:HPMS8 Run Date:06/08/11 09:21 Prep Method:5030B/5030C/503
File ID:8M370902 Analyst:MES Method:8260B
Workgroup (AAB#):WG366978 Matrix:Water Units:ug/L
Contract #: Cal ID: HPMS8-03-JUN-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	2.50	10.0	2.50	1	U
Benzene	0.125	5.00	0.125	1	U
Bromobenzene	0.125	5.00	0.125	1	U
Bromochloromethane	0.200	5.00	0.200	1	U
Bromodichloromethane	0.250	5.00	0.250	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	0.500	10.0	0.500	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.250	5.00	0.250	1	U
sec-Butylbenzene	0.250	5.00	0.250	1	U
tert-Butylbenzene	0.250	5.00	0.250	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.250	5.00	0.250	1	U
Chlorobenzene	0.125	5.00	0.125	1	U
Chlorodibromomethane	0.250	5.00	0.250	1	U
Chloroethane	0.500	10.0	0.500	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.125	5.00	0.125	1	U
Chloromethane	0.500	10.0	0.500	1	U
2-Chlorotoluene	0.125	5.00	0.125	1	U
4-Chlorotoluene	0.250	5.00	0.250	1	U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1	U
1,2-Dibromoethane	0.250	5.00	0.250	1	U
Dibromomethane	0.250	5.00	0.250	1	U
1,2-Dichlorobenzene	0.125	5.00	0.125	1	U
1,3-Dichlorobenzene	0.250	5.00	0.250	1	U
1,4-Dichlorobenzene	0.125	5.00	0.125	1	U
Dichlorodifluoromethane	0.250	10.0	0.250	1	U
1,1-Dichloroethane	0.125	5.00	0.125	1	U
1,2-Dichloroethane	0.250	5.00	0.250	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
cis-1,2-Dichloroethene	0.250	5.00	0.250	1	U
trans-1,2-Dichloroethene	0.250	5.00	0.250	1	U
1,2-Dichloropropane	0.200	5.00	0.200	1	U
1,3-Dichloropropane	0.200	5.00	0.200	1	U
2,2-Dichloropropane	0.250	5.00	0.250	1	U
cis-1,3-Dichloropropene	0.250	5.00	0.250	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.250	5.00	0.250	1	U
Ethylbenzene	0.250	5.00	0.250	1	U
2-Hexanone	2.50	10.0	2.50	1	U
Hexachlorobutadiene	0.250	5.00	0.250	1	U

Report Name:BLANK
PDF ID: 2039513
09-JUN-2011 13:50

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11060205 Prep Date: 06/08/11 09:21 Sample ID: WG366978-01
Instrument ID: HPMS8 Run Date: 06/08/11 09:21 Prep Method: 5030B/5030C/503
File ID: 8M370902 Analyst: MES Method: 8260B
Workgroup (AAB#): WG366978 Matrix: Water Units: ug/L
Contract #: Cal ID: HPMS8-03-JUN-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Isopropylbenzene	0.250	5.00	0.250	1	U
p-Isopropyltoluene	0.250	5.00	0.250	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	0.250	5.00	0.250	1	U
n-Hexane	1.00	5.00	1.00	1	U
Naphthalene	0.200	10.0	0.200	1	U
n-Propylbenzene	0.125	5.00	0.125	1	U
Styrene	0.125	5.00	0.125	1	U
1,1,1,2-Tetrachloroethane	0.250	5.00	0.250	1	U
1,1,2,2-Tetrachloroethane	0.200	5.00	0.200	1	U
Tetrachloroethene	0.250	5.00	0.250	1	U
Toluene	0.250	5.00	0.250	1	U
1,2,3-Trichlorobenzene	0.150	5.00	0.150	1	U
1,2,4-Trichlorobenzene	0.200	5.00	0.200	1	U
1,1,1-Trichloroethane	0.250	5.00	0.250	1	U
1,1,2-Trichloroethane	0.250	5.00	0.250	1	U
Trichloroethene	0.250	5.00	0.250	1	U
Trichlorofluoromethane	0.250	10.0	0.250	1	U
1,2,3-Trichloropropane	0.500	5.00	0.500	1	U
1,2,4-Trimethylbenzene	0.250	5.00	0.250	1	U
1,3,5-Trimethylbenzene	0.250	5.00	0.250	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	0.250	10.0	0.250	1	U
o-Xylene	0.250	5.00	0.250	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
Dibromofluoromethane	96.6	86	-	118	PASS
1,2-Dichloroethane-d4	97.3	80	-	120	PASS
Toluene-d8	92.8	88	-	110	PASS
4-Bromofluorobenzene	97.0	86	-	115	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2039513
09-JUN-2011 13:50

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG366978-02
Instrument ID: HPMS8 Run Time: 09:53 Prep Method: 5030B/5030C/503
File ID: 8M370903 Analyst: MES Method: 8260B
Workgroup (AAB#): WG366978 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD45852 Cal ID: HPMS8-03-JUN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	19.4	97.1	40 - 180	
Benzene	20.0	20.3	102	80 - 121	
Bromobenzene	20.0	18.8	93.9	80 - 120	
Bromochloromethane	20.0	20.0	100	65 - 130	
Bromodichloromethane	20.0	19.6	97.8	80 - 131	
Bromoform	20.0	18.6	92.9	70 - 130	
Bromomethane	20.0	22.1	111	30 - 145	
2-Butanone	20.0	19.4	97.2	10 - 170	
n-Butylbenzene	20.0	20.2	101	80 - 131	
sec-Butylbenzene	20.0	20.3	101	80 - 127	
tert-Butylbenzene	20.0	19.4	97.0	80 - 126	
Carbon disulfide	20.0	22.3	111	58 - 128	
Carbon tetrachloride	20.0	19.8	99.2	65 - 140	
Chlorobenzene	20.0	19.4	97.2	80 - 120	
Chlorodibromomethane	20.0	18.7	93.6	60 - 135	
Chloroethane	20.0	21.4	107	60 - 135	
2-Chloroethyl vinyl ether	20.0	16.3	81.7	45 - 160	
Chloroform	20.0	19.6	98.2	80 - 125	
Chloromethane	20.0	24.1	120	40 - 125	
2-Chlorotoluene	20.0	19.3	96.5	80 - 127	
4-Chlorotoluene	20.0	19.2	96.2	80 - 126	
1,2-Dibromo-3-chloropropane	20.0	16.4	82.2	50 - 130	
1,2-Dibromoethane	20.0	19.4	97.1	80 - 129	
Dibromomethane	20.0	19.8	99.2	75 - 125	
1,2-Dichlorobenzene	20.0	19.3	96.6	80 - 125	
1,3-Dichlorobenzene	20.0	18.9	94.5	80 - 120	
1,4-Dichlorobenzene	20.0	19.0	95.2	80 - 120	
Dichlorodifluoromethane	20.0	28.8	144	40 - 160	
1,1-Dichloroethane	20.0	19.3	96.5	80 - 125	
1,2-Dichloroethane	20.0	19.4	97.1	80 - 129	
1,1-Dichloroethene	20.0	19.1	95.6	80 - 132	
cis-1,2-Dichloroethene	20.0	20.1	101	70 - 125	
trans-1,2-Dichloroethene	20.0	20.3	101	80 - 127	
1,2-Dichloropropane	20.0	19.6	98.2	80 - 120	
1,3-Dichloropropane	20.0	18.8	94.1	80 - 120	
2,2-Dichloropropane	20.0	19.5	97.3	80 - 133	
cis-1,3-Dichloropropene	20.0	20.0	100	70 - 130	
trans-1,3-Dichloropropene	20.0	17.2	86.2	80 - 130	
1,1-Dichloropropene	20.0	21.1	106	75 - 130	
Ethylbenzene	20.0	19.5	97.6	80 - 122	
2-Hexanone	20.0	19.6	97.8	55 - 130	

LCS - Modified 03/06/2008
PDF File ID: 2039155
Report generated: 06/09/2011 13:50

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG366978-02
Instrument ID: HPMS8 Run Time: 09:53 Prep Method: 5030B/5030C/503
File ID: 8M370903 Analyst: MES Method: 8260B
Workgroup (AAB#): WG366978 Matrix: Water Units: ug/L
QC Key: STD Lot#: STD45852 Cal ID: HPMS8-03-JUN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Hexachlorobutadiene	20.0	19.4	96.8	72 - 132	
Isopropylbenzene	20.0	17.8	89.0	80 - 122	
p-Isopropyltoluene	20.0	19.1	95.4	80 - 122	
4-Methyl-2-pentanone	20.0	20.5	102	64 - 140	
Methylene chloride	20.0	19.6	97.8	80 - 123	
n-Hexane	20.0	23.1	116	74 - 137	
Naphthalene	20.0	18.0	90.1	59 - 149	
n-Propylbenzene	20.0	19.7	98.5	80 - 129	
Styrene	20.0	19.5	97.4	80 - 123	
1,1,1,2-Tetrachloroethane	20.0	19.6	98.1	80 - 130	
1,1,2,2-Tetrachloroethane	20.0	18.8	93.9	79 - 125	
Tetrachloroethene	20.0	19.2	95.8	80 - 124	
Toluene	20.0	19.0	94.9	80 - 124	
1,2,3-Trichlorobenzene	20.0	18.1	90.5	55 - 140	
1,2,4-Trichlorobenzene	20.0	18.3	91.7	65 - 135	
1,1,1-Trichloroethane	20.0	19.9	99.6	80 - 134	
1,1,2-Trichloroethane	20.0	19.5	97.7	80 - 125	
Trichloroethene	20.0	20.4	102	80 - 122	
Trichlorofluoromethane	20.0	19.1	95.6	62 - 151	
1,2,3-Trichloropropane	20.0	18.9	94.3	75 - 125	
1,2,4-Trimethylbenzene	20.0	19.9	99.5	80 - 125	
1,3,5-Trimethylbenzene	20.0	20.4	102	80 - 127	
Vinyl acetate	20.0	19.6	98.2	10 - 190	
Vinyl chloride	20.0	22.4	112	50 - 170	
o-Xylene	20.0	20.0	100	80 - 122	
m-,p-Xylene	40.0	39.6	99.0	80 - 122	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	95.0	86 - 118	PASS
1,2-Dichloroethane-d4	91.9	80 - 120	PASS
Toluene-d8	92.1	88 - 110	PASS
4-Bromofluorobenzene	96.0	86 - 115	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2039155
Report generated: 06/09/2011 13:50

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11060205
Instrument Id: HPMS8
Workgroup (AAB#): WG366978

Method: 8260
CAL ID: HPMS8-03-JUN-11
Matrix: Water

Sample Number	Dilution	Tag	1	2	3	4
L11060205-01	1.00	01	96.5	95.5	96.7	94.0
L11060205-05	1.00	01	96.0	97.0	96.0	92.8
L11060205-08	1.00	01	95.9	96.1	97.0	93.7
L11060205-09	1.00	01	93.4	95.9	97.8	92.8
L11060205-10	1.00	01	95.8	97.3	97.5	93.4
L11060205-11	1.00	01	97.9	97.2	97.2	93.3
L11060205-12	1.00	01	95.5	96.6	96.2	94.5
WG366978-01	1.00	01	97.3	96.6	97.0	92.8
WG366978-02	1.00	01	91.9	95.0	96.0	92.1
WG366978-07	1.00	01	97.3	97.3	96.6	94.1

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	86	-	118
3 - 4-Bromofluorobenzene	86	-	115
4 - Toluene-d8	88	-	110

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2039157
Report generated: 06/09/2011 13:50

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG366976-02
Instrument ID: HPMS8 Run Time: 08:18 Method: 8260B
File ID: 8M370900 Analyst: MES QC Key: STD
Workgroup (AAB#): WG366978 Cal ID: HPMS8 - 03-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	51.1	ug/L	0.455	2.23	20	
1,1-Dichloroethene	CCC	50.0	50.0	ug/L	0.393	0.00440	20	
1,2-Dichloropropane	CCC	50.0	49.7	ug/L	0.285	0.698	20	
Ethylbenzene	CCC	50.0	49.3	ug/L	0.539	1.48	20	
Toluene	CCC	50.0	47.5	ug/L	1.41	5.00	20	
Vinyl Chloride	CCC	50.0	51.7	ug/L	0.233	3.49	20	
Bromoform	SPCC	50.0	49.8	ug/L	0.228	0.419	40	
Chlorobenzene	SPCC	50.0	49.2	ug/L	1.03	1.59	40	
Chloromethane	SPCC	50.0	50.6	ug/L	0.334	1.26	40	
1,1-Dichloroethane	SPCC	50.0	50.1	ug/L	0.467	0.226	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	45.8	ug/L	0.468	8.33	40	
Acetone		50.0	46.9	ug/L	0.0522	6.20	40	
Benzene		50.0	49.2	ug/L	1.00	1.58	40	
Bromobenzene		50.0	47.2	ug/L	0.836	5.68	40	
Bromochloromethane		50.0	50.4	ug/L	0.180	0.871	40	
Bromodichloromethane		50.0	50.9	ug/L	0.361	1.85	40	
Bromomethane		50.0	56.0	ug/L	0.225	12.0	40	
2-Butanone		50.0	48.1	ug/L	0.0812	3.76	40	
n-Butylbenzene		50.0	49.8	ug/L	1.90	0.435	40	
sec-Butylbenzene		50.0	49.7	ug/L	2.63	0.669	40	
tert-Butylbenzene		50.0	49.1	ug/L	0.516	1.82	40	
Carbon Disulfide		50.0	50.8	ug/L	0.760	1.57	40	
Carbon Tetrachloride		50.0	51.5	ug/L	0.363	2.93	40	
Dibromochloromethane		50.0	49.4	ug/L	0.366	1.11	40	
Chloroethane		50.0	52.3	ug/L	0.222	4.56	40	
2-Chloroethyl Vinyl Ether		50.0	36.5	ug/L	0.0859	27.1	40	
2-Chlorotoluene		50.0	48.3	ug/L	2.05	3.36	40	
4-Chlorotoluene		50.0	48.6	ug/L	1.91	2.77	40	
1,2-Dibromo-3-Chloropropane		50.0	43.5	ug/L	0.0789	13.0	40	
1,2-Dibromoethane		50.0	48.1	ug/L	0.276	3.84	40	
Dibromomethane		50.0	48.1	ug/L	0.134	3.73	40	
1,2-Dichlorobenzene		50.0	48.1	ug/L	1.43	3.80	40	
1,3-Dichlorobenzene		50.0	48.5	ug/L	1.59	2.90	40	
1,4-Dichlorobenzene		50.0	48.3	ug/L	1.61	3.45	40	
Dichlorodifluoromethane		50.0	49.6	ug/L	0.318	0.738	40	
1,2-Dichloroethane		50.0	48.0	ug/L	0.317	4.01	40	
cis-1,2-Dichloroethene		50.0	50.2	ug/L	0.289	0.417	40	
trans-1,2-Dichloroethene		50.0	51.3	ug/L	0.392	2.69	40	
1,3-Dichloropropane		50.0	46.1	ug/L	0.415	7.79	40	
2,2-Dichloropropane		50.0	51.8	ug/L	0.388	3.56	40	
cis-1,3-Dichloropropene		50.0	49.8	ug/L	0.431	0.316	40	
trans-1,3-Dichloropropene		50.0	46.9	ug/L	0.460	6.30	40	

CCV - Modified 03/05/2008
PDF File ID: 2039517
Report generated 06/09/2011 13:50

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG366976-02
Instrument ID: HPMS8 Run Time: 08:18 Method: 8260B
File ID: 8M370900 Analyst: MES QC Key: STD
Workgroup (AAB#): WG366978 Cal ID: HPMS8 - 03-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	51.8	ug/L	0.347	3.52	40	
2-Hexanone		50.0	46.7	ug/L	0.0793	6.69	40	
Hexachlorobutadiene		50.0	49.9	ug/L	0.302	0.161	40	
Isopropylbenzene		50.0	49.6	ug/L	1.64	0.725	40	
p-Isopropyltoluene		50.0	50.1	ug/L	2.56	0.131	40	
4-Methyl-2-Pentanone		50.0	46.5	ug/L	0.0652	7.06	40	
Methylene Chloride		50.0	46.2	ug/L	0.266	7.50	40	
n-Hexane		50.0	50.9	ug/L	0.345	1.81	40	
Naphthalene		50.0	42.9	ug/L	1.63	14.3	40	
n-Propylbenzene		50.0	49.5	ug/L	3.12	1.07	40	
Styrene		50.0	48.4	ug/L	1.13	3.30	40	
1,1,1,2-Tetrachloroethane		50.0	49.5	ug/L	0.375	0.945	40	
Tetrachloroethene		50.0	49.0	ug/L	0.343	2.06	40	
1,2,3-Trichlorobenzene		50.0	43.1	ug/L	0.704	13.8	40	
1,2,4-Trichlorobenzene		50.0	45.2	ug/L	0.881	9.59	40	
1,1,1-Trichloroethane		50.0	50.2	ug/L	0.413	0.435	40	
1,1,2-Trichloroethane		50.0	48.1	ug/L	0.263	3.80	40	
Trichloroethene		50.0	50.2	ug/L	0.319	0.315	40	
Trichlorofluoromethane		50.0	47.6	ug/L	0.392	4.84	40	
1,2,3-Trichloropropane		50.0	46.7	ug/L	0.148	6.58	40	
1,2,4-Trimethylbenzene		50.0	48.2	ug/L	2.35	3.58	40	
1,3,5-Trimethylbenzene		50.0	49.1	ug/L	2.33	1.77	40	
Vinyl Acetate		50.0	56.7	ug/L	0.227	13.4	40	
o-Xylene		50.0	49.3	ug/L	0.664	1.50	40	
m-,p-Xylene		100	97.2	ug/L	0.659	2.80	40	
1,2-Dichloroethene		100	102	ug/L	0.341	1.56	40	
Xylenes		150	146	ug/L	0.662	2.37	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2039517
Report generated 06/09/2011 13:50

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11060205
Instrument ID: HPMS8
Workgroup (AAB#): WG366978

CCV Number: WG366976-02
CAL ID: HPMS8-03-JUN-11
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG366976-02	NA	NA	326218	545978	679877
Upper Limit	NA	NA	652436	1091956	1359754
Lower Limit	NA	NA	163109	272989	339939
L11060205-01	1.00	01	313945	523175	647504
L11060205-05	1.00	01	312743	515067	611466
L11060205-08	1.00	01	315481	522383	635910
L11060205-09	1.00	01	316916	523077	634002
L11060205-10	1.00	01	314530	520252	636738
L11060205-11	1.00	01	311406	517164	621238
L11060205-12	1.00	01	314535	523911	639769
WG366978-01	1.00	01	321072	534261	640506
WG366978-02	1.00	01	326849	538710	644251
WG366978-07	1.00	01	311139	517142	629062

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2039518
Report generated 06/09/2011 13:50

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11060205
Instrument ID: HPMS8
Workgroup (AAB#): WG366978

CCV Number: WG366976-02
CAL ID: HPMS8-03-JUN-11
Matrix: WATER

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG366976-02	NA	NA	17.15	14.14	10.3
Upper Limit	NA	NA	17.65	14.64	10.8
Lower Limit	NA	NA	16.65	13.64	9.8
L11060205-01	1.00	01	17.16	14.15	10.3
L11060205-05	1.00	01	17.15	14.14	10.3
L11060205-08	1.00	01	17.15	14.15	10.3
L11060205-09	1.00	01	17.15	14.14	10.3
L11060205-10	1.00	01	17.15	14.15	10.3
L11060205-11	1.00	01	17.15	14.14	10.3
L11060205-12	1.00	01	17.15	14.15	10.3
WG366978-01	1.00	01	17.15	14.14	10.3
WG366978-02	1.00	01	17.15	14.14	10.3
WG366978-07	1.00	01	17.15	14.14	10.3

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2039519
Report generated 06/09/2011 13:50

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 020311
Analyst1: MES Analyst2: MDA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36350

Internal Standard: STD43472 Surrogate Standard: STD43472
CCV: STD43791,STD43627 LCS: STD43592,STD43281 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG355612,WG355674

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M367705	WG355612-01 50NG BFB STD 8260	NA	1	1	STD43280	02/03/11 07:59
2	8M367706	WG355612-02 5ug/L APPIX STD	NA	1	1	STD43627	02/03/11 08:24
3	8M367707	WG355612-03 20 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 08:55
4	8M367708	WG355612-04 50 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 09:27
5	8M367709	WG355612-05 100 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 09:58
6	8M367710	WG355612-06 200 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 10:30
7	8M367711	WG355612-07 300 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 11:01
8	8M367712	WG355612-08 400 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 11:32
9	8M367713	WG355612-09 500 ug/L APPIX STD	NA	1	1	STD43627	02/03/11 12:04
10	8M367714	RINSE	NA	1	1		02/03/11 12:35
11	8M367715	WG355612-10 100ug/L ALT SOURCE	NA	1	1	STD43281	02/03/11 13:06
12	8M367716	WG355672-01 50NG BFB STD 8260	NA	1	1	STD43280	02/03/11 13:34
13	8M367717	WG355672-02 50ug/L WATER STD 8260	NA	1	1	STD43791	02/03/11 14:00
14	8M367718	RINSE	NA	1	1		02/03/11 14:31
15	8M367719	WG355674-01 VBLK0203 BLANK 8260	NA	1	1		02/03/11 15:03
16	8M367720	WG355674-02 20ug/L LCS 8260	NA	1	1	STD43592	02/03/11 15:34
17	8M367721	WG355674-03 20ug/L LCSDUP 8260	NA	1	1	STD43592	02/03/11 16:06
18	8M367722	RINSE	NA	1	1		02/03/11 16:37
19	8M367723	WG355674-04 20ug/L PA 8260	NA	1	1	STD43592	02/03/11 17:08
20	8M367724	WG355674-05 20ug/L PA 8260	NA	1	1	STD43592	02/03/11 17:39
21	8M367725	WG355674-06 20ug/L PA 8260	NA	1	1	STD43592	02/03/11 18:11
22	8M367726	WG355674-07 20ug/L PA 8260	NA	1	1	STD43592	02/03/11 18:42
23	8M367727	WG355674-08 100ug/L APPIX PA	NA	1	1	STD43361	02/03/11 19:13
24	8M367728	WG355674-09 100ug/L APPIX PA	NA	1	1	STD43361	02/03/11 19:45
25	8M367729	WG355674-10 100ug/L APPIX PA	NA	1	1	STD43361	02/03/11 20:16
26	8M367730	WG355674-11 100ug/L APPIX PA	NA	1	1	STD43361	02/03/11 20:47
27	8M367731	RINSE	NA	1	1		02/03/11 21:19
28	8M367732	L11020081-06 A 826-SPE	<2	1	1		02/03/11 21:50
29	8M367733	L11020081-05 A 826-SPE	<2	1	1		02/03/11 22:21
30	8M367734	L11020087-01 A 10X 826-SPE5	<2	1	10		02/03/11 22:53
31	8M367735	RINSE	NA	1	1		02/03/11 23:24
32	8M367736	RINSE	NA	1	1		02/03/11 23:55
33	8M367737	WG355674-12 624 BLANK	NA	2	1		02/04/11 00:27

Approved: February 07, 2011

Tiffany Bailey

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 020311
Analyst1: MES Analyst2: MDA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 12
Maintenance Log ID: 36350

Internal Standard: STD43472 Surrogate Standard: STD43472
CCV: STD43791,STD43627 LCS: STD43592,STD43281 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG355612,WG355674

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
34	8M367738	L11020085-01 A 624-SPE6	<2	2	1		02/04/11 00:58
35	8M367739	L11020085-02 A 624-SPE8	<2	2	1		02/04/11 01:29
36	8M367740	L11020085-03 A 624-SPE7	<2	2	1		02/04/11 02:00
37	8M367741	L11020085-04 A 624-SPE7	<2	2	1		02/04/11 02:31
38	8M367742	L11020085-05 A 624-SPE7	<2	2	1		02/04/11 03:03
39	8M367743	L11020085-06 A 624-SPE10	<2	2	1		02/04/11 03:34
40	8M367744	L11020085-07 A 624-SPE10	<2	2	1		02/04/11 04:05
41	8M367745	RINSE	NA	1	1		02/04/11 04:37
42	8M367746	RINSE	NA	1	1		02/04/11 05:08
43	8M367747	RINSE	NA	1	1		02/04/11 05:39

Comments

Seq.	Rerun	Dil.	Reason	Analytes
30				
File ID:8M367734				
Too foamy to analyze at a higher concentration.				
38	X	50	Over Calibration Range	cis-1,2-DCE and TCE
File ID:8M367742				
39	X	1	Carry-over contamination	
File ID:8M367743				
DNR				

Approved: February 07, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 060311
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
Maintenance Log ID: 37744

Internal Standard: STD45486 Surrogate Standard: STD45486
CCV: STD45799 LCS: STD45771 MS/MSD: NA

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG366654

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M370802	RINSE	NA	1	1		06/03/11 12:13
2	8M370803	RINSE	NA	1	1		06/03/11 12:52
3	8M370805	RINSE	NA	1	1		06/03/11 15:43
4	8M370806	RINSE-LOWER VOLT	NA	1	1		06/03/11 16:16
5	8M370807	RINSE-HIGHER VOLTAGE	NA	1	1		06/03/11 16:49
6	8M370808	RINSE-HIGHER VOLTAGE	NA	1	1		06/03/11 17:45
7	8M370809	WG366654-01 50NG BFB STD 8260	NA	1	1	STD45401	06/03/11 18:13
8	8M370810	WG366654-02 0.3ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 18:38
9	8M370811	WG366654-03 0.4 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 19:09
10	8M370812	WG366654-04 1 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 19:48
11	8M370813	WG366654-03 0.4 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 20:18
12	8M370814	WG366654-05 2 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 20:49
13	8M370815	WG366654-06 5 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 21:20
14	8M370816	WG366654-07 20 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 21:51
15	8M370817	WG366654-08 50 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 22:22
16	8M370818	WG366654-09 100 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 22:53
17	8M370819	WG366654-10 200 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 23:24
18	8M370820	WG366654-11 300 ug/L WATER STD 8260	NA	1	1	STD45799	06/03/11 23:54
19	8M370821	RINSE	NA	1	1		06/04/11 00:25
20	8M370822	WG366654-12 50ug/L ALT SOURCE	NA	1	1	STD45771	06/04/11 00:56
21	8M370823	SOIL BLANK	NA	7	1		06/04/11 01:28
22	8M370824	SOIL BLANK	NA	7	1		06/04/11 02:00

Comments

Seq.	Rerun	Dil.	Reason	Analytes
9				
File ID: 8M370811				
	RR-DNR			

Approved: June 06, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS8 Dataset: 060811
Analyst1: MES Analyst2: NA
Method: 8260B SOP: MSV01 Rev: 14
Method: 624 SOP: MSV10 Rev: 8
Method: 5030B/5030C/5035A SOP: PAT01 Rev: 13
Maintenance Log ID: 37807

Internal Standard: STD45486 Surrogate Standard: STD45486
CCV: STD45799 LCS: STD45852 MS/MSD: STD45852

Column 1 ID: RTX502.2 Column 2 ID: NA
Workgroups: WG366978

Comments:

Seq.	File ID	Sample Information	pH	Mat	Dil	Reference	Date/Time
1	8M370899	WG366976-01 50NG BFB STD 8260	NA	1	1	STD45401	06/08/11 07:53
2	8M370900	WG366976-02 50ug/L WATER STD 8260	NA	1	1	STD45799	06/08/11 08:18
3	8M370901	WG366000-01 100ug/L APPIX STD 8260	NA	1	1	STD45400	06/08/11 08:50
4	8M370902	WG366978-01 VBLK0608 BLANK 8260	NA	1	1		06/08/11 09:21
5	8M370903	WG366978-02 20ug/L LCS 8260	NA	1	1	STD45852	06/08/11 09:53
6	8M370904	L11060148-14 B 826-SPE	<2	1	1		06/08/11 10:24
7	8M370905	L11060112-06 A 826-SPE	<2	1	1		06/08/11 10:56
8	8M370906	L11060148-10 B 826-SPE	<2	1	1		06/08/11 11:27
9	8M370907	L11060148-11 B 826-SPE	NA	1	1		06/08/11 11:59
10	8M370908	L11060148-12 MS B 826-SPE	NA	1	1	STD45852	06/08/11 12:31
11	8M370909	L11060148-13 MSD B 826-SPE	NA	1	1	STD45852	06/08/11 13:02
12	8M370910	L11060205-09 MS A 826-SPE	NA	1	1	STD45852	06/08/11 13:34
13	8M370911	L11060205-10 MSD A 826-SPE	NA	1	1	STD45852	06/08/11 14:05
14	8M370912	L11060148-04 B D1 25X 826-SPE	<2	1	25		06/08/11 14:37
15	8M370913	L11060205-12 A 826-SPE	<2	1	1		06/08/11 15:09
16	8M370914	L11060205-08 A 826-SPE	NA	1	1		06/08/11 15:40
17	8M370915	L11060174-01 B 826-SPE	<2	1	1		06/08/11 16:12
18	8M370916	L11060201-02 A 826-SPE	<2	1	1		06/08/11 16:44
19	8M370917	L11051024-03 C D2 5000X 826-SPE	<2	1	5000		06/08/11 17:15
20	8M370918	L11051024-04 C D2 10000X 826-SPE	<2	1	10000		06/08/11 17:47
21	8M370919	L11060205-01 A 826-SPE	<2	1	1		06/08/11 18:18
22	8M370920	L11060205-05 A 826-SPE	<2	1	1		06/08/11 18:50
23	8M370921	L11060205-11 A 826-SPE	<2	1	1		06/08/11 19:22
24	8M370922	RINSE	NA	1	1		06/08/11 19:53
25	8M370923	WG366978-07 624 BLANK	NA	2	1		06/08/11 20:25
26	8M370924	L11060216-04 A 624-SPE3	<2	2	1		06/08/11 20:56
27	8M370925	L11060218-03 A 624-SPE	7	2	1		06/08/11 21:28
28	8M370926	RINSE	NA	1	1		06/08/11 21:59
29	8M370927	RINSE	NA	1	1		06/08/11 22:30
30	8M370928	RINSE	NA	1	1		06/08/11 23:02
31	8M370929	SOIL BLANK IS+water added by hand	NA	1	1		06/08/11 23:34
32	8M370930	SOIL BLANK IS+water added by hand	NA	1	1		06/09/11 00:05
33	8M370931	SOIL BLANK IS+water added by hand	NA	1	1		06/09/11 00:36
34	8M370932	SOIL BLANK IS+water added by hand	NA	1	1		06/09/11 01:06

Approved: June 09, 2011

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Microbac Laboratories Inc.

Instrument Run Log

Instrument:	HPMS8	Dataset:	060811		
Analyst1:	MES	Analyst2:	NA		
Method:	8260B	SOP:	MSV01	Rev:	14
Method:	624	SOP:	MSV10	Rev:	8
Method:	5030B/5030C/5035A	SOP:	PAT01	Rev:	13
Maintenance Log ID:	37807				

Internal Standard: STD45486 Surrogate Standard: STD45486

CCV: STD45799 LCS: STD45852 MS/MSD: STD45852

Column 1 ID: RTX502.2 Column 2 ID: NA

Workgroups: WG366978

Comments:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
17	X	10	Over Calibration Range	benzene
File ID: 8M370915				

Approved: June 09, 2011

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Inorganic QA/QC

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11060205
Work Group: WG367052
Blank File ID: P2.060811.173900
Blank Sample ID: WG366997-02
Prep Date: 06/08/11 08:31
Instrument ID: PE-ICP2
Analyzed Date: 06/08/11 17:39
Method: 6010B
Analyst: KHR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG366997-03	P2.060811.174538	06/08/11 17:45	01
MW5-2S	L11060205-01	P2.060811.192558	06/08/11 19:25	01
MW5-2D	L11060205-02	P2.060811.193236	06/08/11 19:32	01
MW5-4	L11060205-03	P2.060811.193914	06/08/11 19:39	01
MW5-1	L11060205-04	P2.060811.194637	06/08/11 19:46	01
MW4-7	L11060205-05	P2.060811.195316	06/08/11 19:53	01
MW2-1	L11060205-06	P2.060811.195958	06/08/11 19:59	01
MW2-2	L11060205-07	P2.060811.201953	06/08/11 20:19	01
MW10-2	L11060205-08	P2.060811.202632	06/08/11 20:26	01
MW10-2-MS	L11060205-09	P2.060811.203312	06/08/11 20:33	01
MW10-2-MSD	L11060205-10	P2.060811.203955	06/08/11 20:39	01
DUPLICATE 6211	L11060205-11	P2.060811.204638	06/08/11 20:46	01
LCS	WG366997-03	P2.060911.150518	06/09/11 15:05	02
MW10-2	L11060205-08	P2.060911.151200	06/09/11 15:12	02
MW10-2-MS	L11060205-09	P2.060911.152013	06/09/11 15:20	02
MW10-2-MSD	L11060205-10	P2.060911.152657	06/09/11 15:26	02

Report Name: BLANK_SUMMARY
PDF File ID: 2038401
Report generated 06/10/2011 11:51

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11060205
Work Group: WG367052
Blank File ID: P2.060911.145840
Blank Sample ID: WG366997-02
Prep Date: 06/08/11 08:31
Instrument ID: PE-ICP2
Analyzed Date: 06/09/11 14:58
Method: 6010B
Analyst: KHR

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG366997-03	P2.060811.174538	06/08/11 17:45	01
MW5-2S	L11060205-01	P2.060811.192558	06/08/11 19:25	01
MW5-2D	L11060205-02	P2.060811.193236	06/08/11 19:32	01
MW5-4	L11060205-03	P2.060811.193914	06/08/11 19:39	01
MW5-1	L11060205-04	P2.060811.194637	06/08/11 19:46	01
MW4-7	L11060205-05	P2.060811.195316	06/08/11 19:53	01
MW2-1	L11060205-06	P2.060811.195958	06/08/11 19:59	01
MW2-2	L11060205-07	P2.060811.201953	06/08/11 20:19	01
MW10-2	L11060205-08	P2.060811.202632	06/08/11 20:26	01
MW10-2-MS	L11060205-09	P2.060811.203312	06/08/11 20:33	01
MW10-2-MSD	L11060205-10	P2.060811.203955	06/08/11 20:39	01
DUPLICATE 6211	L11060205-11	P2.060811.204638	06/08/11 20:46	01
LCS	WG366997-03	P2.060911.150518	06/09/11 15:05	02
MW10-2	L11060205-08	P2.060911.151200	06/09/11 15:12	02
MW10-2-MS	L11060205-09	P2.060911.152013	06/09/11 15:20	02
MW10-2-MSD	L11060205-10	P2.060911.152657	06/09/11 15:26	02

Report Name: BLANK_SUMMARY
PDF File ID: 2038401
Report generated 06/10/2011 11:51

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11060205 Prep Date: 06/08/11 08:31 Sample ID: WG366997-02
Instrument ID: PE-ICP2 Run Date: 06/08/11 17:39 Prep Method: 3005A
File ID: P2.060811.173900 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG367052 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP-08-JUN-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Dissolved	0.00500	0.0100	0.00500	1	U
Barium, Dissolved	0.00500	0.0100	0.00500	1	U
Cadmium, Dissolved	0.00500	0.0100	0.00500	1	U
Chromium, Dissolved	0.0100	0.0200	0.0100	1	U
Lead, Dissolved	0.00250	0.00500	0.00250	1	U
Selenium, Dissolved	0.00500	0.0100	0.00500	1	U
Silver, Dissolved	0.00500	0.0100	0.00500	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2038402
10-JUN-2011 11:51

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11060205 Prep Date: 06/08/11 08:31 Sample ID: WG366997-02
Instrument ID: PE-ICP2 Run Date: 06/09/11 14:58 Prep Method: 3005A
File ID: P2.060911.145840 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG367052 Matrix: Water Units: mg/L
Contract #: Cal ID: PE-ICP-09-JUN-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Arsenic, Dissolved	0.00500	0.0100	0.00500	1	U
Cadmium, Dissolved	0.00500	0.0100	0.00500	1	U
Chromium, Dissolved	0.0100	0.0200	0.0100	1	U
Lead, Dissolved	0.00250	0.00500	0.00250	1	U
Selenium, Dissolved	0.00500	0.0100	0.00500	1	U
Silver, Dissolved	0.00500	0.0100	0.00500	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2038402
10-JUN-2011 11:51

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11060205 **Run Date:** 06/08/2011 **Sample ID:** WG366997-03
Instrument ID: PE-ICP2 **Run Time:** 17:45 **Prep Method:** 3005A
File ID: P2.060811.174538 **Analyst:** KHR **Method:** 6010B
Workgroup (AAB#): WG367052 **Matrix:** Water **Units:** mg/L
QC Key: STD **Lot#:** STD45410 **Cal ID:** PE-ICP-08-JUN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Dissolved	0.200	0.206	103	85 - 115	
Barium, Dissolved	0.500	0.534	107	85 - 115	
Cadmium, Dissolved	0.0250	0.0257	103	85 - 115	
Chromium, Dissolved	0.250	0.265	106	85 - 115	
Lead, Dissolved	0.250	0.265	106	85 - 115	
Selenium, Dissolved	0.200	0.215	108	85 - 115	
Silver, Dissolved	0.200	0.217	109	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 2038403
Report generated: 06/10/2011 11:51

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG366997-03
Instrument ID: PE-ICP2 Run Time: 15:05 Prep Method: 3005A
File ID: P2.060911.150518 Analyst: KHR Method: 6010B
Workgroup (AAB#): WG367052 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD45410 Cal ID: PE-ICP-09-JUN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Arsenic, Dissolved	0.200	0.225	113	85 - 115	
Barium, Dissolved	0.500	0.540	108	85 - 115	
Cadmium, Dissolved	0.0250	0.0263	105	85 - 115	
Chromium, Dissolved	0.250	0.266	106	85 - 115	
Lead, Dissolved	0.250	0.283	113	85 - 115	
Selenium, Dissolved	0.200	0.238	119	85 - 115	*
Silver, Dissolved	0.200	0.210	105	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 2038403
Report generated: 06/10/2011 11:51

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-07
Instrument ID: PE-ICP2 Run Time: 15:13 Method: 6010B
File ID: P2.060811.151313 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG367052 Cal ID: PE-ICP2 - 08-JUN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
ARSENIC	.005	.01	.005	U
BARIUM	.005	.01	.005	U
CADMIUM	.005	.01	.005	U
CHROMIUM	.01	.02	.01	U
LEAD	.0025	.005	.0025	U
SELENIUM	.005	.01	.005	U
SILVER	.005	.01	.005	U

ICB - Modified 07/14/2009
PDF File ID: 2038409
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-10
Instrument ID: PE-ICP2 Run Time: 15:31 Method: 6010B
File ID: P2.060811.153112 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.399	mg/L	99.8	90 - 110		
Barium		1.00	1.01	mg/L	101	90 - 110		
Cadmium		0.0500	0.0489	mg/L	97.9	90 - 110		
Chromium		0.500	0.504	mg/L	101	90 - 110		
Lead		0.500	0.509	mg/L	102	90 - 110		
Selenium		0.400	0.402	mg/L	101	90 - 110		
Silver		0.400	0.404	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038411
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-14

Instrument ID: PE-ICP2 Run Time: 17:25 Method: 6010B

File ID: P2.060811.172542 Analyst: KHR QC Key: STD

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.395	mg/L	98.8	90 - 110		
Barium		1.00	1.01	mg/L	101	90 - 110		
Cadmium		0.0500	0.0482	mg/L	96.4	90 - 110		
Chromium		0.500	0.503	mg/L	101	90 - 110		
Lead		0.500	0.506	mg/L	101	90 - 110		
Selenium		0.400	0.399	mg/L	99.6	90 - 110		
Silver		0.400	0.402	mg/L	101	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2038411

Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-16

Instrument ID: PE-ICP2 Run Time: 18:45 Method: 6010B

File ID: P2.060811.184551 Analyst: KHR QC Key: STD

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.412	mg/L	103	90 - 110		
Barium		1.00	1.05	mg/L	105	90 - 110		
Cadmium		0.0500	0.0503	mg/L	101	90 - 110		
Chromium		0.500	0.521	mg/L	104	90 - 110		
Lead		0.500	0.527	mg/L	105	90 - 110		
Selenium		0.400	0.410	mg/L	102	90 - 110		
Silver		0.400	0.417	mg/L	104	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008

PDF File ID: 2038411

Report generated 06/09/2011 09:36

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-18
Instrument ID: PE-ICP2 Run Time: 20:06 Method: 6010B
File ID: P2.060811.200637 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.394	mg/L	98.5	90 - 110		
Barium		1.00	1.06	mg/L	106	90 - 110		
Cadmium		0.0500	0.0490	mg/L	98.0	90 - 110		
Chromium		0.500	0.526	mg/L	105	90 - 110		
Lead		0.500	0.526	mg/L	105	90 - 110		
Selenium		0.400	0.394	mg/L	98.4	90 - 110		
Silver		0.400	0.411	mg/L	103	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038411
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-20
Instrument ID: PE-ICP2 Run Time: 20:53 Method: 6010B
File ID: P2.060811.205318 Analyst: KHR QC Key: STD
Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Arsenic		0.400	0.420	mg/L	105	90 - 110		
Barium		1.00	1.07	mg/L	107	90 - 110		
Cadmium		0.0500	0.0515	mg/L	103	90 - 110		
Chromium		0.500	0.532	mg/L	106	90 - 110		
Lead		0.500	0.543	mg/L	109	90 - 110		
Selenium		0.400	0.411	mg/L	103	90 - 110		
Silver		0.400	0.420	mg/L	105	90 - 110		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038411
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-11

Instrument ID: PE-ICP2 Run Time: 15:37 Method: 6010B

File ID: P2.060811.153752 Analyst: KHR Units: mg/L

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Chromium	0.0100	0.0200	0.0100	U
Lead	0.00250	0.00500	0.00250	U
Selenium	0.00500	0.0100	0.00500	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038412
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-15

Instrument ID: PE-ICP2 Run Time: 17:32 Method: 6010B

File ID: P2.060811.173223 Analyst: KHR Units: mg/L

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Chromium	0.0100	0.0200	0.0100	U
Lead	0.00250	0.00500	0.00250	U
Selenium	0.00500	0.0100	0.00500	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038412
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-17

Instrument ID: PE-ICP2 Run Time: 18:52 Method: 6010B

File ID: P2.060811.185231 Analyst: KHR Units: mg/L

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Chromium	0.0100	0.0200	0.0100	U
Lead	0.00250	0.00500	0.00250	U
Selenium	0.00500	0.0100	0.00500	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038412
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-19

Instrument ID: PE-ICP2 Run Time: 20:13 Method: 6010B

File ID: P2.060811.201316 Analyst: KHR Units: mg/L

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Chromium	0.0100	0.0200	0.0100	U
Lead	0.00250	0.00500	0.00250	U
Selenium	0.00500	0.0100	0.00500	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038412
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-21

Instrument ID: PE-ICP2 Run Time: 20:59 Method: 6010B

File ID: P2.060811.205955 Analyst: KHR Units: mg/L

Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Arsenic	0.00500	0.0100	0.00500	U
Barium	0.00500	0.0100	0.00500	U
Cadmium	0.00500	0.0100	0.00500	U
Chromium	0.0100	0.0200	0.0100	U
Lead	0.00250	0.00500	0.00250	U
Selenium	0.00500	0.0100	0.00500	U
Silver	0.00500	0.0100	0.00500	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038412
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11060205 Run Date: 06/08/2011 Sample ID: WG367078-06
Instrument ID: PE-ICP2 Run Time: 15:06 Method: 6010B
File ID: P2.060811.150631 Analyst: KHR Units: mg/L
Workgroup (AAB#): WG367052 Cal ID: PE-ICP - 08-JUN-11
QC Key: STD

Analyte		Expected	Found	%REC	LIMITS	Q
Arsenic		.4	0.404	101	90 - 110	
Barium		1	1.02	102	90 - 110	
Cadmium		.05	0.0498	99.7	90 - 110	
Chromium		.5	0.506	101	90 - 110	
Lead		.5	0.516	103	90 - 110	
Selenium		.4	0.403	101	90 - 110	
Silver		.4	0.409	102	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 2038408
Report generated 06/09/2011 09:36

Microbac Laboratories Inc.
INTERFERENCE CHECK SAMPLES

Login number: L11060205 **Workgroup (AAB#):** WG367052
Instrument ID: PE-ICP2 **Method:** 6010B
Sol. A : WG367078-08 **File ID:** P2.060811.151950 **Units:** mg/L
Sol. AB : WG367078-09 **File ID:** P2.060811.152531 **Matrix:** Water

	Sol. A			Sol. AB			
ANALYTE	True	Found	%Recovery	True	Found	%Recovery	Q
Arsenic	NS	-0.000210	NS	0.250	0.241	96.4	
Barium	NS	0.000490	NS	0.250	0.259	104	
Cadmium	NS	0.000110	NS	0.500	0.419	83.8	
Chromium	NS	-0.0000500	NS	0.250	0.253	101	
Lead	NS	-0.00301	NS	0.500	0.495	99.0	
Selenium	NS	-0.0000100	NS	0.250	0.228	91.2	
Silver	NS	-0.000990	NS	0.500	0.524	105	

NS = Not spiked
*** = Recovery of spiked element is outside acceptance limit of 80% - 120% of true value.**
 # = Result for unspiked element is outside the acceptance limits of (+/-) the project reporting limit (RL).
+ = Result for unspiked element is outside the acceptance limits of (+/-) 2 times the project method detection limit (MDL). This criteria is only applicable to specific QAPPs.

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	AG	AL	AS	B	BA
ALUMINUM	396.15	0	0	0.206	0	0
ANTIMONY	206.84	0	0	-0.740	0	0
ARSENIC	188.98	0	0.0893	0	0	0
BARIUM	233.53	0	0.00932	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	1.12	0	0	0
CADMIUM	228.80	0	0	6.68	0	0
CALCIUM	227.55	0	0.195	10.0	0	0
CHROMIUM	267.72	0	0.0250	0	0	0
COBALT	228.62	0	0	0	0	0.337
COPPER	327.39	0	0	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	0	-0.0210	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-0.185	0	-0.231	-0.0949	-0.230
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0.111	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0.200	0	0.0400
ZINC	206.20	0	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	BE	CA	CD	CO	CR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	6.33
ARSENIC	188.98	0	0.0200	-0.0875	0	-5.90
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	-0.0733
BORON	249.68	0	0	24.1	5.90	1.50
CADMIUM	228.80	0	0	0	-10.7	0
CALCIUM	227.55	0	0	0	300	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	-0.244
COPPER	327.39	0	0	0	0.380	-0.0400
IRON	239.56	0	0	0	1.91	0
LEAD	220.35	0	-0.0480	0	0.116	-0.0700
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0	0	0	0
MANGANESE	257.61	-1.04	0	-0.755	-0.0418	-0.110
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	0	0	0	-0.566	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.250	0	-1.52	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0.0900	0	3.48	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	-0.0100	0	0	0.297
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	0	0	0	0	-3.64

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	CU	FE	K	LI	MG
ALUMINUM	396.15	0	-0.0800	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	-0.139	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0.195	0	0	0
BORON	249.68	0	-4.66	0	0	0
CADMIUM	228.80	0	0.00130	0	0	0
CALCIUM	227.55	-2.00	-5.00	0	0	0.104
CHROMIUM	267.72	0	-0.000800	0	0	0
COBALT	228.62	0	0.0262	0	0	0
COPPER	327.39	0	-0.115	0	0.154	0
IRON	239.56	0	0	0	0	0.0276
LEAD	220.35	0.740	0.0440	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	0.540	0	0	0
MANGANESE	257.61	-0.0457	-0.0453	-0.0181	-0.794	0.0147
MOLYBDENUM	202.03	0	-0.0494	0	0	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	-0.369	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0.0717	0.0498	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0.120	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.134	0	0	0
ZINC	206.20	-0.200	0.0230	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	MN	MO	NA	NI	PB
ALUMINUM	396.15	0	13.5	0	0	0
ANTIMONY	206.84	0	-7.69	0	0	0
ARSENIC	188.98	0	6.00	0	0	0
BARIUM	233.53	0	-0.548	0	0	0
BERYLLIUM	234.86	-0.131	-1.50	0	-0.00974	0
BORON	249.68	0	-2.20	0	0	0
CADMIUM	228.80	0	-0.00900	0	-0.398	0
CALCIUM	227.55	0	-8.00	0	-900	0
CHROMIUM	267.72	0.434	-0.00100	0	0	0
COBALT	228.62	0	-0.125	0	0.129	0
COPPER	327.39	0	-0.0774	0	0.150	0.257
IRON	239.56	0.480	0	0	0	0.407
LEAD	220.35	0.100	-5.00	0	0.100	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-5.00	0	0	0.0252
MANGANESE	257.61	0	-0.0482	-0.00916	-0.0340	-0.0413
MOLYBDENUM	202.03	-0.209	0	0	0.120	0
NICKEL	231.60	0	0	0	0	0
POTASSIUM	766.49	0	0	1.00	0	0
SELENIUM	196.03	0.451	0.300	0	0.0940	0
SILICON	251.61	0	15.0	0	0	0
SILVER	328.07	0.130	0.100	0	0	0
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	-1.50	1.20	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0.578	0	0	0
ZINC	206.20	0	0.180	0	-0.200	-0.100

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	SB	SE	SI	SN	SR
ALUMINUM	396.15	0	0	0	0	0
ANTIMONY	206.84	0	0	0	0	0
ARSENIC	188.98	0	0	0	0	0
BARIUM	233.53	0	0	0	0	0
BERYLLIUM	234.86	0	0	0	0	0
BORON	249.68	0	0	0	0	0
CADMIUM	228.80	0	0	0	0	0
CALCIUM	227.55	0	0	2.79	0	0
CHROMIUM	267.72	0	0	0	0	0
COBALT	228.62	0	0	0	0	0
COPPER	327.39	0	0.148	0	0	0
IRON	239.56	0	0	0	0	0
LEAD	220.35	-0.0100	0	0	0	0
LITHIUM	670.78	0	0	0	0	0
MAGNESIUM	279.08	0	-0.0924	0	0	0
MANGANESE	257.61	-0.0505	-0.0281	-0.185	-0.0445	-0.625
MOLYBDENUM	202.03	0	0	0	0	0
NICKEL	231.60	-0.0500	-0.0100	0	0	0
POTASSIUM	766.49	0	0	0	0	0
SELENIUM	196.03	0	0	0	0	0
SILICON	251.61	0	0	0	0	0
SILVER	328.07	0	0	0	0	0.200
SODIUM	589.59	0	0	0	0	0
STRONTIUM	407.77	0	0	0	0	0
THALLIUM	190.80	0	0	0	0	0
TIN	189.93	0	0	0	0	0
TITANIUM	334.94	0	0	0	0	0
VANADIUM	290.88	0	0	0	0	0
ZINC	206.20	-0.300	0	0	0	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
INTERELEMENT CORRECTION FACTORS (ANNUALLY)

Login Number: L11060205 **Date:** 02/14/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Wave Length	TI	TL	V	ZN
ALUMINUM	396.15	0	0	0	0
ANTIMONY	206.84	0	0	0.000100	0
ARSENIC	188.98	0	0	0.0930	0
BARIUM	233.53	0	0	-2.29	0
BERYLLIUM	234.86	0	0	0	0
BORON	249.68	0	0	0	0
CADMIUM	228.80	0	0	0.0800	0
CALCIUM	227.55	0	0	60.0	0
CHROMIUM	267.72	0	0	-0.567	-0.0400
COBALT	228.62	2.21	0	0	0
COPPER	327.39	-1.05	0	-0.700	-0.0613
IRON	239.56	0	0	0	0
LEAD	220.35	0	0	0.0560	0
LITHIUM	670.78	0	0	0	0
MAGNESIUM	279.08	0	0	0	0
MANGANESE	257.61	-0.00931	-0.0414	-0.0601	-0.0552
MOLYBDENUM	202.03	0	0	-0.288	0
NICKEL	231.60	0	0.617	0	0
POTASSIUM	766.49	0	0	0	0
SELENIUM	196.03	-0.220	0	-0.126	0
SILICON	251.61	0	0	0	0
SILVER	328.07	0	0	-1.67	0
SODIUM	589.59	0	0	0	0
STRONTIUM	407.77	0	0	0	0
THALLIUM	190.80	-12.0	0.617	-1.41	0
TIN	189.93	0	0	0	0
TITANIUM	334.94	0	0	0	0
VANADIUM	290.88	0	0	0	0
ZINC	206.20	0	0	-0.100	0

CORR_FACTORS - Modified 03/05/2008
PDF File ID: 2038406
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.
LINEAR RANGE (QUARTERLY)

Login Number: L11060205 **Date:** 03/30/2011
Insturment ID: PE-ICP2 **Method:** 6010B

Analyte	Integration Time (Sec.)	Concentration (mg/L)
Aluminum	10.00	450.0
Antimony	10.00	45.0
Arsenic	10.00	9.0
Barium	10.00	9.0
Beryllium	10.00	4.5
Boron	10.00	45.0
Cadmium	10.00	9.0
Calcium	10.00	450.0
Chromium	10.00	45.0
Cobalt	10.00	45.0
Copper	10.00	45.0
Iron	10.00	450.0
Lead	10.00	90.0
Lithium	10.00	0.9
Magnesium	10.00	450.0
Manganese	10.00	27.0
Molybdenum	10.00	45.0
Nickel	10.00	45.0
Potassium	10.00	72.0
Selenium	10.00	45.0
Silicon	10.00	36.0
Silver	10.00	9.0
Sodium	10.00	180.0
Strontium	10.00	4.5
Thallium	10.00	45.0
Tin	10.00	45.0
Titanium	10.00	45.0
Vanadium	10.00	45.0
Zinc	10.00	45.0

Comments:
All analytes passed acceptance criteria at the specified concentration.

LINEAR_RANGE - Modified 03/06/2008
PDF File ID: 2038405
Report generated: 06/09/2011 09:35

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060811HR.CSV

Analyst1: KHR Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 11

Maintenance Log ID: 37796

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409

ICSA: STD45777 ICSAB: STD45516 Int. Std: STD45773

CCV: STD45768 LLCCV:

Workgroups: 366774, 367041, 367052, 367048

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.060811.143313	WG367078-01	Calibration Point		1		06/08/11 14:33
2	P2.060811.143950	WG367078-02	Calibration Point		1		06/08/11 14:39
3	P2.060811.144626	WG367078-03	Calibration Point		1		06/08/11 14:46
4	P2.060811.145303	WG367078-04	Calibration Point		1		06/08/11 14:53
5	P2.060811.145947	WG367078-05	Calibration Point		1		06/08/11 14:59
6	P2.060811.150631	WG367078-06	Initial Calibration Verification		1		06/08/11 15:06
7	P2.060811.151313	WG367078-07	Initial Calib Blank		1		06/08/11 15:13
8	P2.060811.151950	WG367078-08	Interference Check		1		06/08/11 15:19
9	P2.060811.152531	WG367078-09	Interference Check		1		06/08/11 15:25
10	P2.060811.153112	WG367078-10	CCV		1		06/08/11 15:31
11	P2.060811.153752	WG367078-11	CCB		1		06/08/11 15:37
12	P2.060811.154743	L11060027-01	BEF-BC1-T1-W1A-F	50/50	1		06/08/11 15:47
13	P2.060811.155424	L11060027-03	BEF-BC2-T1-W1A-F	50/50	1		06/08/11 15:54
14	P2.060811.160106	L11060027-05	BEF-BC3-T1-W1A-F	50/50	1		06/08/11 16:01
15	P2.060811.160748	L11060027-07	BEF-SMF-T1-W01-F	50/50	1		06/08/11 16:07
16	P2.060811.161430	L11060027-09	BIF-CDT-T1-W01-F	50/50	1		06/08/11 16:14
17	P2.060811.162112	WG367078-12	CCV		1		06/08/11 16:21
18	P2.060811.162753	WG367078-13	CCB		1		06/08/11 16:27
19	P2.060811.163205	WG367000-02	Method/Prep Blank	5/50	1		06/08/11 16:32
20	P2.060811.163842	WG367000-03	Laboratory Control S	5/50	1		06/08/11 16:38
21	P2.060811.164526	WG367000-01	Reference Sample		1	L11060184-01	06/08/11 16:45
22	P2.060811.165208	WG367000-04	Matrix Spike	5/50	1	L11060184-01	06/08/11 16:52
23	P2.060811.165851	WG367000-05	Matrix Spike Duplica	5/50	1	L11060184-01	06/08/11 16:58
24	P2.060811.170534	WG367041-01	Post Digestion Spike		1	L11060184-01	06/08/11 17:05
25	P2.060811.171218	WG367041-02	Serial Dilution		5	L11060184-01	06/08/11 17:12
26	P2.060811.171901	WG366912-01	Fluid Blank		1		06/08/11 17:19
27	P2.060811.172542	WG367078-14	CCV		1		06/08/11 17:25
28	P2.060811.173223	WG367078-15	CCB		1		06/08/11 17:32
29	P2.060811.173900	WG366997-02	Method/Prep Blank	50/50	1		06/08/11 17:39
30	P2.060811.174538	WG366997-03	Laboratory Control S	50/50	1		06/08/11 17:45
31	P2.060811.175220	L11060180-01	13358-W0002	50/50	1		06/08/11 17:52
32	P2.060811.175858	L11060189-01	55034-W0001	50/50	1		06/08/11 17:58
33	P2.060811.180536	L11060199-01	3031-P	50/50	1		06/08/11 18:05
34	P2.060811.181218	L11060199-02	3031-F	50/50	1		06/08/11 18:12

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Sheri L. Babgard

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060811HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37796

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45516 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366774, 367041, 367052, 367048

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.060811.181900	L11060204-02	BEF-BC1-T1-D2A-F		1		06/08/11 18:19
36	P2.060811.182543	L11060204-04	BEF-BC1-T1-W2A-F	50/50	1		06/08/11 18:25
37	P2.060811.183226	WG367052-01	Post Digestion Spike		1	L11060204-04	06/08/11 18:32
38	P2.060811.183909	WG367052-02	Serial Dilution		5	L11060204-04	06/08/11 18:39
39	P2.060811.184551	WG367078-16	CCV		1		06/08/11 18:45
40	P2.060811.185231	WG367078-17	CCB		1		06/08/11 18:52
41	P2.060811.185907	L11060204-06	BEF-BC2-T1-W2A-F		1		06/08/11 18:59
42	P2.060811.190551	L11060204-08	BEF-BC3-T1-W2A-F		1		06/08/11 19:05
43	P2.060811.191234	L11060204-10	BEF-SMF-T1-W02-F		1		06/08/11 19:12
44	P2.060811.191916	L11060204-12	BIF-CDT-T1-W02-F		1		06/08/11 19:19
45	P2.060811.192558	L11060205-01	MW5-2S	50/50	1		06/08/11 19:25
46	P2.060811.193236	L11060205-02	MW5-2D	50/50	1		06/08/11 19:32
47	P2.060811.193914	L11060205-03	MW5-4	50/50	1		06/08/11 19:39
48	P2.060811.194637	L11060205-04	MW5-1	50/50	1		06/08/11 19:46
49	P2.060811.195316	L11060205-05	MW4-7	50/50	1		06/08/11 19:53
50	P2.060811.195958	L11060205-06	MW2-1	50/50	1		06/08/11 19:59
51	P2.060811.200637	WG367078-18	CCV		1		06/08/11 20:06
52	P2.060811.201316	WG367078-19	CCB		1		06/08/11 20:13
53	P2.060811.201953	L11060205-07	MW2-2	50/50	1		06/08/11 20:19
54	P2.060811.202632	WG366997-01	Reference Sample		1	L11060205-08	06/08/11 20:26
55	P2.060811.203312	WG366997-04	Matrix Spike	50/50	1	L11060205-08	06/08/11 20:33
56	P2.060811.203955	WG366997-05	Matrix Spike Duplica	50/50	1	L11060205-08	06/08/11 20:39
57	P2.060811.204638	L11060205-11	DUPLICATE 6211	50/50	1		06/08/11 20:46
58	P2.060811.205318	WG367078-20	CCV		1		06/08/11 20:53
59	P2.060811.205955	WG367078-21	CCB		1		06/08/11 20:59
60	P2.060811.210630	WG366423-02	Method/Prep Blank		1		06/08/11 21:06
61	P2.060811.211309	WG366423-03	Laboratory Control S		1		06/08/11 21:13
62	P2.060811.211948	WG366423-01	Reference Sample		1	L11060019-01	06/08/11 21:19
63	P2.060811.212627	WG366423-04	Matrix Spike		1	L11060019-01	06/08/11 21:26
64	P2.060811.213306	WG366423-05	Matrix Spike Duplica		1	L11060019-01	06/08/11 21:33
65	P2.060811.213945	L11060019-04	ANL2024		1		06/08/11 21:39
66	P2.060811.214624	WG366696-01	Post Digestion Spike		1	L11060031-01	06/08/11 21:46
67	P2.060811.215306	WG366696-02	Serial Dilution		5	L11060031-01	06/08/11 21:53
68	P2.060811.215945	WG367078-22	CCV		1		06/08/11 21:59

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060811HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37796

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45516 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366774, 367041, 367052, 367048

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.060811.220625	WG367078-23	CCB		1		06/08/11 22:06
70	P2.060811.221301	L11060031-01	FTGWEF288		1		06/08/11 22:13
71	P2.060811.221940	L11060037-01	14101-A		1		06/08/11 22:19
72	P2.060811.222619	L11060037-02	14101-A		1		06/08/11 22:26
73	P2.060811.223258	L11060037-03	14101-B		1		06/08/11 22:32
74	P2.060811.223937	L11060037-04	14101-B		1		06/08/11 22:39
75	P2.060811.224616	L11060037-05	14101-C		1		06/08/11 22:46
76	P2.060811.225255	L11060037-06	14101-C		1		06/08/11 22:52
77	P2.060811.225934	L11060037-07	14101-D		1		06/08/11 22:59
78	P2.060811.230613	L11060037-08	14101-D		1		06/08/11 23:06
79	P2.060811.231252	WG367078-24	CCV		1		06/08/11 23:12
80	P2.060811.231934	WG367078-25	CCB		1		06/08/11 23:19
81	P2.060811.232610	L11060039-01	W 22		1		06/08/11 23:26
82	P2.060811.233255	L11060039-03	W14		1		06/08/11 23:32
83	P2.060811.233938	L11060039-05	W13		1		06/08/11 23:39
84	P2.060811.234621	L11060039-06	W 30 B		1		06/08/11 23:46
85	P2.060811.235304	L11060039-07	W 52		1		06/08/11 23:53
86	P2.060811.235947	L11060039-08	W 24		1		06/08/11 23:59
87	P2.060911.000631	WG367078-26	CCV		1		06/09/11 00:06
88	P2.060911.001313	WG367078-27	CCB		1		06/09/11 00:13
89	P2.060911.001949	WG366836-02	Method/Prep Blank	50/50	1		06/09/11 00:19
90	P2.060911.002628	WG366836-03	Laboratory Control S	50/50	1		06/09/11 00:26
91	P2.060911.003311	L11060114-01	MW7N042611-(1)	50/50	1		06/09/11 00:33
92	P2.060911.003951	WG366836-01	Reference Sample		10	L11060115-01	06/09/11 00:39
93	P2.060911.004540	L11060115-03	SPE-G-MW-3-DUP		10		06/09/11 00:45
94	P2.060911.005128	L11060115-04	SPE-G-MW-3-DIS-DUP		10		06/09/11 00:51
95	P2.060911.005717	L11060142-01	10674-W0001	50/50	1		06/09/11 00:57
96	P2.060911.010357	WG367048-01	Post Digestion Spike		1	L11060142-01	06/09/11 01:03
97	P2.060911.011040	WG367048-02	Serial Dilution		5	L11060142-01	06/09/11 01:10
98	P2.060911.011720	WG367078-28	CCV		1		06/09/11 01:17
99	P2.060911.012402	WG367078-29	CCB		1		06/09/11 01:24
100	P2.060911.013038	L11060142-02	7389-W0001	50/50	1		06/09/11 01:30
101	P2.060911.013717	L11060142-03	7389-W0002	50/50	1		06/09/11 01:37
102	P2.060911.014357	L11060142-04	7389-W0003	50/50	1		06/09/11 01:43

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Sheri L. Babcock

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060811HR.CSV

Analyst1: KHR Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 11

Maintenance Log ID: 37796

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409

ICSA: STD45777 ICSAB: STD45516 Int. Std: STD45773

CCV: STD45768 LLCCV:

Workgroups: 366774, 367041, 367052, 367048

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.060911.015037	L11060142-05	7431-W0001	50/50	1		06/09/11 01:50
104	P2.060911.015717	L11060142-06	7535-W0001	50/50	1		06/09/11 01:57
105	P2.060911.020357	L11060142-07	8258-W0001	50/50	1		06/09/11 02:03
106	P2.060911.021037	L11060142-08	8289-W0001	50/50	1		06/09/11 02:10
107	P2.060911.021717	L11060185-01	ROBERT MUHLEMAN		10		06/09/11 02:17
108	P2.060911.022357	L11060185-02	OHIO RIVER		10		06/09/11 02:23
109	P2.060911.023037	WG367078-30	CCV		1		06/09/11 02:30
110	P2.060911.023719	WG367078-31	CCB		1		06/09/11 02:37
111	P2.060911.024355	WG366836-04	Matrix Spike	50/50	10	L11060115-01	06/09/11 02:43
112	P2.060911.024943	WG366836-05	Matrix Spike Duplica	50/50	10	L11060115-01	06/09/11 02:49
113	P2.060911.025532	L11060115-09	SPE-G-MW-3D		10		06/09/11 02:55
114	P2.060911.030212	L11060115-10	SPE-G-MW-3D-DIS		10		06/09/11 03:02
115	P2.060911.030852	L11060115-11	SPE-G-MW-4		10		06/09/11 03:08
116	P2.060911.031436	L11060115-12	SPE-G-MW-4-DIS		10		06/09/11 03:14
117	P2.060911.032021	L11060115-13	SPE-G-MW-5		10		06/09/11 03:20
118	P2.060911.032701	L11060115-14	SPE-G-MW-5-DIS		10		06/09/11 03:27
119	P2.060911.033341	WG367078-32	CCV		1		06/09/11 03:33
120	P2.060911.034022	WG367078-33	CCB		1		06/09/11 03:40
121	P2.060911.034658	L11060137-01	060211D		10		06/09/11 03:46
122	P2.060911.035342	L11060137-01	060211D		50		06/09/11 03:53
123	P2.060911.040026	L11060137-01	060211D		1		06/09/11 04:00
124	P2.060911.040709	L11060137-01	060211D		5		06/09/11 04:07
125	P2.060911.041354	WG367078-34	CCV		1		06/09/11 04:13
126	P2.060911.042034	WG367078-35	CCB		1		06/09/11 04:20

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Instrument Run Log

Instrument: PE-ICP2 Dataset: 060911HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37810

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45933 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366773, 366696, 367052, 367048, 367170, 367171

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	P2.060911.085313	WG367183-01	Calibration Point		1		06/09/11 08:53
2	P2.060911.085949	WG367183-02	Calibration Point		1		06/09/11 08:59
3	P2.060911.090626	WG367183-03	Calibration Point		1		06/09/11 09:06
4	P2.060911.091303	WG367183-04	Calibration Point		1		06/09/11 09:13
5	P2.060911.092006	WG367183-05	Calibration Point		1		06/09/11 09:20
6	P2.060911.092650	WG367183-06	Initial Calibration Verification		1		06/09/11 09:26
7	P2.060911.093332	WG367183-07	Initial Calib Blank		1		06/09/11 09:33
8	P2.060911.094009	WG367183-08	Interference Check		1		06/09/11 09:40
9	P2.060911.094549	WG367183-09	Interference Check		1		06/09/11 09:45
10	P2.060911.095129	WG367183-10	CCV		1		06/09/11 09:51
11	P2.060911.095809	WG367183-11	CCB		1		06/09/11 09:58
12	P2.060911.100445	WG366569-02	Method/Prep Blank	50/50	1		06/09/11 10:04
13	P2.060911.101122	WG366569-03	Laboratory Control S	50/50	1		06/09/11 10:11
14	P2.060911.101804	WG366569-01	Reference Sample		1	L11051035-01	06/09/11 10:18
15	P2.060911.102446	WG366569-04	Matrix Spike	50/50	1	L11051035-01	06/09/11 10:24
16	P2.060911.103128	WG366569-05	Matrix Spike Duplica	50/50	1	L11051035-01	06/09/11 10:31
17	P2.060911.103814	L11060043-02	EB02-060111	50/50	1		06/09/11 10:38
18	P2.060911.104451	WG366773-05	Post Digestion Spike		1	L11060043-02	06/09/11 10:44
19	P2.060911.105133	WG366773-06	Serial Dilution		5	L11060043-02	06/09/11 10:51
20	P2.060911.105810	WG367183-12	CCV		1		06/09/11 10:58
21	P2.060911.110451	WG367183-13	CCB		1		06/09/11 11:04
22	P2.060911.111127	WG367183-14	Interference Check		1		06/09/11 11:11
23	P2.060911.111707	WG367183-15	Interference Check		1		06/09/11 11:17
24	P2.060911.112248	WG367183-16	CCV		1		06/09/11 11:22
25	P2.060911.112928	WG367183-17	CCB		1		06/09/11 11:29
26	P2.060911.113948	L11050972-09	018		1		06/09/11 11:39
27	P2.060911.114631	WG366423-02	Method/Prep Blank	50/50	1		06/09/11 11:46
28	P2.060911.115309	WG366423-03	Laboratory Control S	50/50	1		06/09/11 11:53
29	P2.060911.115952	WG366423-01	Reference Sample		1	L11060019-01	06/09/11 11:59
30	P2.060911.120635	WG366423-04	Matrix Spike	50/50	1	L11060019-01	06/09/11 12:06
31	P2.060911.121318	WG366423-05	Matrix Spike Duplica	50/50	1	L11060019-01	06/09/11 12:13
32	P2.060911.122000	L11060019-04	ANL2024	50/50	1		06/09/11 12:20
33	P2.060911.122642	L11060031-01	FTGWEF288	50/50	1		06/09/11 12:26
34	P2.060911.123323	WG366696-01	Post Digestion Spike		1	L11060031-01	06/09/11 12:33

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Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060911HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37810

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45933 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366773, 366696, 367052, 367048, 367170, 367171

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	P2.060911.124005	WG366696-02	Serial Dilution		5	L11060031-01	06/09/11 12:40
36	P2.060911.124643	WG367183-18	CCV		1		06/09/11 12:46
37	P2.060911.125323	WG367183-19	CCB		1		06/09/11 12:53
38	P2.060911.130000	L11060037-01	14101-A	50/50	1		06/09/11 13:00
39	P2.060911.130637	L11060037-02	14101-A	50/50	1		06/09/11 13:06
40	P2.060911.131314	L11060037-03	14101-B	50/50	1		06/09/11 13:13
41	P2.060911.131953	L11060037-04	14101-B	50/50	1		06/09/11 13:19
42	P2.060911.132631	L11060037-05	14101-C	50/50	1		06/09/11 13:26
43	P2.060911.133309	L11060037-06	14101-C	50/50	1		06/09/11 13:33
44	P2.060911.133947	L11060037-07	14101-D	50/50	1		06/09/11 13:39
45	P2.060911.134626	L11060037-08	14101-D	50/50	1		06/09/11 13:46
46	P2.060911.135305	WG367183-20	CCV		1		06/09/11 13:53
47	P2.060911.135945	WG367183-21	CCB		1		06/09/11 13:59
48	P2.060911.140622	L11060039-01	W 22	50/50	1		06/09/11 14:06
49	P2.060911.141308	L11060039-03	W14	50/50	1		06/09/11 14:13
50	P2.060911.141950	L11060039-05	W13	50/50	1		06/09/11 14:19
51	P2.060911.142632	L11060039-06	W 30 B	50/50	1		06/09/11 14:26
52	P2.060911.143310	L11060039-07	W 52	50/50	1		06/09/11 14:33
53	P2.060911.143948	L11060039-08	W 24	50/50	1		06/09/11 14:39
54	P2.060911.144630	WG367183-22	CCV		1		06/09/11 14:46
55	P2.060911.145310	WG367183-23	CCB		1		06/09/11 14:53
56	P2.060911.145840	WG366997-02	Method/Prep Blank	50/50	1		06/09/11 14:58
57	P2.060911.150518	WG366997-03	Laboratory Control S	50/50	1		06/09/11 15:05
58	P2.060911.151200	WG366997-01	Reference Sample		1	L11060205-08	06/09/11 15:12
59	P2.060911.152013	WG366997-04	Matrix Spike	50/50	1	L11060205-08	06/09/11 15:20
60	P2.060911.152657	WG366997-05	Matrix Spike Duplica	50/50	1	L11060205-08	06/09/11 15:26
61	P2.060911.153341	L11060204-02	BEF-BC1-T1-D2A-F	50/50	1		06/09/11 15:33
62	P2.060911.154023	L11060204-04	BEF-BC1-T1-W2A-F	50/50	1		06/09/11 15:40
63	P2.060911.154705	L11060204-06	BEF-BC2-T1-W2A-F	50/50	1		06/09/11 15:47
64	P2.060911.155347	WG367052-03	Post Digestion Spike		1	L11060204-06	06/09/11 15:53
65	P2.060911.160030	WG367052-04	Serial Dilution		5	L11060204-06	06/09/11 16:00
66	P2.060911.160712	WG367183-24	CCV		1		06/09/11 16:07
67	P2.060911.161351	WG367183-25	CCB		1		06/09/11 16:13
68	P2.060911.162027	L11060204-08	BEF-BC3-T1-W2A-F	50/50	1		06/09/11 16:20

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Maren Berry

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Instrument Run Log

Instrument: PE-ICP2 Dataset: 060911HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37810

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45933 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366773, 366696, 367052, 367048, 367170, 367171

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
69	P2.060911.162710	L11060204-10	BEF-SMF-T1-W02-F	50/50	1		06/09/11 16:27
70	P2.060911.163352	L11060204-12	BIF-CDT-T1-W02-F	50/50	1		06/09/11 16:33
71	P2.060911.164034	L11060204-02	BEF-BC1-T1-D2A-F	50/50	100		06/09/11 16:40
72	P2.060911.164712	L11060204-04	BEF-BC1-T1-W2A-F	50/50	100		06/09/11 16:47
73	P2.060911.165351	L11060204-06	BEF-BC2-T1-W2A-F	50/50	100		06/09/11 16:53
74	P2.060911.170030	WG367052-03	Post Digestion Spike		100	L11060204-06	06/09/11 17:00
75	P2.060911.170713	WG367052-04	Serial Dilution		500	L11060204-06	06/09/11 17:07
76	P2.060911.171352	WG367183-26	CCV		1		06/09/11 17:13
77	P2.060911.172033	WG367183-27	CCB		1		06/09/11 17:20
78	P2.060911.172708	L11060204-08	BEF-BC3-T1-W2A-F	50/50	100		06/09/11 17:27
79	P2.060911.173347	L11060204-10	BEF-SMF-T1-W02-F	50/50	100		06/09/11 17:33
80	P2.060911.174026	L11060204-12	BIF-CDT-T1-W02-F	50/50	100		06/09/11 17:40
81	P2.060911.174705	WG367183-28	CCV		1		06/09/11 17:47
82	P2.060911.175346	WG367183-29	CCB		1		06/09/11 17:53
83	P2.060911.180021	WG366836-02	Method/Prep Blank	50/50	1		06/09/11 18:00
84	P2.060911.180701	WG366836-03	Laboratory Control S	50/50	1		06/09/11 18:07
85	P2.060911.181344	WG366836-01	Reference Sample		10	L11060115-01	06/09/11 18:13
86	P2.060911.181934	WG366836-01	Reference Sample		50	L11060115-01	06/09/11 18:19
87	P2.060911.182517	L11060115-03	SPE-G-MW-3-DUP	50/50	10		06/09/11 18:25
88	P2.060911.183107	L11060115-03	SPE-G-MW-3-DUP	50/50	50		06/09/11 18:31
89	P2.060911.183650	L11060115-04	SPE-G-MW-3-DIS-DUP	50/50	10		06/09/11 18:36
90	P2.060911.184241	L11060115-04	SPE-G-MW-3-DIS-DUP	50/50	50		06/09/11 18:42
91	P2.060911.184922	WG366836-04	Matrix Spike	50/50	10	L11060115-01	06/09/11 18:49
92	P2.060911.185513	WG366836-04	Matrix Spike	50/50	50	L11060115-01	06/09/11 18:55
93	P2.060911.190057	WG367183-30	CCV		1		06/09/11 19:00
94	P2.060911.190737	WG367183-31	CCB		1		06/09/11 19:07
95	P2.060911.191414	WG366836-05	Matrix Spike Duplica	50/50	10	L11060115-01	06/09/11 19:14
96	P2.060911.192004	WG366836-05	Matrix Spike Duplica	50/50	50	L11060115-01	06/09/11 19:20
97	P2.060911.192548	L11060115-09	SPE-G-MW-3D	50/50	1		06/09/11 19:25
98	P2.060911.193231	L11060115-10	SPE-G-MW-3D-DIS	50/50	1		06/09/11 19:32
99	P2.060911.193914	L11060115-11	SPE-G-MW-4	50/50	10		06/09/11 19:39
100	P2.060911.194457	L11060115-11	SPE-G-MW-4		50		06/09/11 19:44
101	P2.060911.195137	L11060115-12	SPE-G-MW-4-DIS	50/50	10		06/09/11 19:51
102	P2.060911.195720	L11060115-12	SPE-G-MW-4-DIS		50		06/09/11 19:57

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Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060911HR.CSV

Analyst1: KHR Analyst2: N/A

Method: 6010 SOP: ME600E Rev: 11

Maintenance Log ID: 37810

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409

ICSA: STD45777 ICSAB: STD45933 Int. Std: STD45773

CCV: STD45768 LLCCV:

Workgroups: 366773, 366696, 367052, 367048, 367170, 367171

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
103	P2.060911.200359	L11060115-13	SPE-G-MW-5	50/50	10		06/09/11 20:03
104	P2.060911.201039	L11060115-14	SPE-G-MW-5-DIS	50/50	10		06/09/11 20:10
105	P2.060911.201719	WG367183-32	CCV		1		06/09/11 20:17
106	P2.060911.202359	WG367183-33	CCB		1		06/09/11 20:23
107	P2.060911.203035	WG366694-02	Method/Prep Blank	50/50	1		06/09/11 20:30
108	P2.060911.203714	WG366694-03	Laboratory Control S	50/50	1		06/09/11 20:37
109	P2.060911.204358	WG366694-01	Reference Sample		1	L11060103-01	06/09/11 20:43
110	P2.060911.205046	WG366694-04	Matrix Spike	50/50	1	L11060103-01	06/09/11 20:50
111	P2.060911.205731	WG366694-05	Matrix Spike Duplica	50/50	1	L11060103-01	06/09/11 20:57
112	P2.060911.210416	L11060103-02	W 32 WTR	50/50	1		06/09/11 21:04
113	P2.060911.211101	L11060103-04	W 32	50/50	1		06/09/11 21:11
114	P2.060911.211745	L11060122-01	AV-GW-ON-PZ07-060111	50/50	1		06/09/11 21:17
115	P2.060911.212430	WG367170-01	Post Digestion Spike		1	L11060122-01	06/09/11 21:24
116	P2.060911.213118	WG367170-02	Serial Dilution		5	L11060122-01	06/09/11 21:31
117	P2.060911.213802	WG367183-34	CCV		1		06/09/11 21:38
118	P2.060911.214443	WG367183-35	CCB		1		06/09/11 21:44
119	P2.060911.215120	L11060122-02	AV-GW-ON-PZ06-060111	50/50	1		06/09/11 21:51
120	P2.060911.215802	L11060122-03	AV-GW-ON-PZ03-060211	50/50	1		06/09/11 21:58
121	P2.060911.220447	L11060122-04	AV-GW-ON-022-060211	50/50	1		06/09/11 22:04
122	P2.060911.221131	L11060122-05	AV-GW-ON-023-060211	50/50	1		06/09/11 22:11
123	P2.060911.221819	L11060122-06	AV-GW-ON-025-060211	50/50	1		06/09/11 22:18
124	P2.060911.222502	L11060124-01	NORTH TANK	50/50	1		06/09/11 22:25
125	P2.060911.223144	L11060124-02	SOUTH TANK	50/50	1		06/09/11 22:31
126	P2.060911.223829	L11060125-01	SS-1	50/50	1		06/09/11 22:38
127	P2.060911.224513	L11060125-02	MW-1R	50/50	1		06/09/11 22:45
128	P2.060911.225157	WG367183-36	CCV		1		06/09/11 22:51
129	P2.060911.225838	WG367183-37	CCB		1		06/09/11 22:58
130	P2.060911.230514	L11060125-03	MW-3	50/50	1		06/09/11 23:05
131	P2.060911.231157	L11060125-04	MW-4	50/50	1		06/09/11 23:11
132	P2.060911.231841	L11060125-05	MW-5	50/50	1		06/09/11 23:18
133	P2.060911.232526	L11060125-06	MW-6	50/50	1		06/09/11 23:25
134	P2.060911.233210	L11060135-01	POST ROCK	50/50	500		06/09/11 23:32
135	P2.060911.233855	L11060136-01	PERKINS OIL \& GAS	50/50	200		06/09/11 23:38
136	P2.060911.234539	WG367183-38	CCV		1		06/09/11 23:45

Page: 4 Approved: June 10, 2011

Maren Berry

Microbac Laboratories Inc.

Instrument Run Log

Instrument: PE-ICP2 Dataset: 060911HR.CSV
Analyst1: KHR Analyst2: N/A
Method: 6010 SOP: ME600E Rev: 11
Maintenance Log ID: 37810

Calibration Std: STD45772 ICV Std: STD45778 Post Spike: STD45409
ICSA: STD45777 ICSAB: STD45933 Int. Std: STD45773
CCV: STD45768 LLCCV:

Workgroups: 366773, 366696, 367052, 367048, 367170, 367171

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
137	P2.060911.235219	WG367183-39	CCB		1		06/09/11 23:52
138	P2.060911.235855	WG366998-02	Method/Prep Blank	50/50	1		06/09/11 23:58
139	P2.061011.000536	WG366998-03	Laboratory Control S	50/50	1		06/10/11 00:05
140	P2.061011.001220	L11060219-01	10520-W0001	50/50	1		06/10/11 00:12
141	P2.061011.001900	L11060219-02	10520-W0002	50/50	1		06/10/11 00:19
142	P2.061011.002540	L11060219-03	10520-W0003	50/50	1		06/10/11 00:25
143	P2.061011.003220	L11060219-04	6902-W0001	50/50	1		06/10/11 00:32
144	P2.061011.003900	L11060219-05	7368-W0001	50/50	1		06/10/11 00:39
145	P2.061011.004540	L11060219-06	7374-W0001	50/50	1		06/10/11 00:45
146	P2.061011.005220	WG367171-01	Post Digestion Spike		1	L11060219-06	06/10/11 00:52
147	P2.061011.005904	WG367171-02	Serial Dilution		5	L11060219-06	06/10/11 00:59
148	P2.061011.010544	WG367183-40	CCV		1		06/10/11 01:05
149	P2.061011.011223	WG367183-41	CCB		1		06/10/11 01:12
150	P2.061011.011900	L11060219-07	7531-W0001	50/50	1		06/10/11 01:19
151	P2.061011.012540	L11060219-08	8384-W0001	50/50	1		06/10/11 01:25
152	P2.061011.013220	L11060219-09	8384-W0002	50/50	1		06/10/11 01:32
153	P2.061011.013900	L11060219-10	8432-W0001	50/50	1		06/10/11 01:39
154	P2.061011.014540	L11060219-11	8444-W0001	50/50	1		06/10/11 01:45
155	P2.061011.015221	L11060219-12	8539-W0001	50/50	1		06/10/11 01:52
156	P2.061011.015901	L11060219-13	8569-W0001	50/50	1		06/10/11 01:59
157	P2.061011.020541	L11060219-14	8951-W0001	50/50	1		06/10/11 02:05
158	P2.061011.021222	L11060219-15	8951-W0002	50/50	1		06/10/11 02:12
159	P2.061011.021902	WG367183-42	CCV		1		06/10/11 02:19
160	P2.061011.022542	WG367183-43	CCB		1		06/10/11 02:25
161	P2.061011.023219	L11060140-01	W2A-GW-060311		1	WG366998-01	06/10/11 02:32
162	P2.061011.023905	WG366998-04	Matrix Spike	50/50	1	L11060140-01	06/10/11 02:39
163	P2.061011.024552	WG366998-05	Matrix Spike Duplica	50/50	1	L11060140-01	06/10/11 02:45
164	P2.061011.025239	L11060140-02	VW16B-GW-060311	50/50	1		06/10/11 02:52
165	P2.061011.025821	L11060140-03	W14-GW-060311	50/50	1		06/10/11 02:58
166	P2.061011.030504	WG367183-44	Interference Check		1		06/10/11 03:05
167	P2.061011.031044	WG367183-45	Interference Check		1		06/10/11 03:10
168	P2.061011.031624	WG367183-46	CCV		1		06/10/11 03:16
169	P2.061011.032305	WG367183-47	CCB		1		06/10/11 03:23

Page: 5 Approved: June 10, 2011

Maren Berry

Microbac

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG366997
Analyst: REK
Spike Analyst: REK
Method: 3005A
Run Date: 06/08/2011 08:31
Hotblock Start Temp: 95.1 @ 06:00
Hotblock End Temp: 95 @ 10:00

SOP: ME401 Revison 13
Spike Solution: STD45410
Spike Witness: VC
Digestion Tubes Lot #: COA15342
HCL Lot #: COA15427
HNO3 Lot #: COA15474

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG366997-02	BLANK	1	50 mL	50 mL		
2	WG366997-03	LCS	1	50 mL	50 mL	5 mL	
3	L11060180-01	SAMP	1	50 mL	50 mL		06/17/11
4	L11060189-01	SAMP	1	50 mL	50 mL		06/17/11
5	L11060199-01	SAMP	1	50 mL	50 mL		06/14/11
6	L11060199-02	SAMP	1	50 mL	50 mL		06/14/11
7	L11060204-02	SAMP	1	50 mL	50 mL		06/14/11
8	L11060204-04	SAMP	1	50 mL	50 mL		06/14/11
9	L11060204-06	SAMP	1	50 mL	50 mL		06/14/11
10	L11060204-08	SAMP	1	50 mL	50 mL		06/14/11
11	L11060204-10	SAMP	1	50 mL	50 mL		06/14/11
12	L11060204-12	SAMP	1	50 mL	50 mL		06/14/11
13	L11060205-01	SAMP	1	50 mL	50 mL		06/10/11
14	L11060205-02	SAMP	1	50 mL	50 mL		06/10/11
15	L11060205-03	SAMP	1	50 mL	50 mL		06/10/11
16	L11060205-04	SAMP	1	50 mL	50 mL		06/10/11
17	L11060205-05	SAMP	1	50 mL	50 mL		06/10/11
18	L11060205-06	SAMP	1	50 mL	50 mL		06/10/11
19	L11060205-07	SAMP	1	50 mL	50 mL		06/10/11
20	WG366997-01	REF	1	50 mL	50 mL		
21	L11060205-08	RS01	1	50 mL	50 mL		06/10/11
22	WG366997-04	MS	1	50 mL	50 mL	5 mL	
23	L11060205-09	MS01	1	50 mL	50 mL	5 mL	06/10/11
24	WG366997-05	MSD	1	50 mL	50 mL	5 mL	
25	L11060205-10	SD01	1	50 mL	50 mL	5 mL	06/10/11
26	L11060205-11	SAMP	1	50 mL	50 mL		06/10/11

Analyst: _____

Reviewer: Brenda Gregory

HB_DIG - Modified 09/30/2009
PDF ID: 2036961
Report generated: 06/08/2011 10:30

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11060205
Work Group: WG367024
Blank File ID: HY.060911.085131
Blank Sample ID: WG367001-05
Prep Date: 06/08/11 08:48
Instrument ID: HYDRA
Analyzed Date: 06/09/11 08:51
Method: 7470A
Analyst: PDM

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG367001-06	HY.060911.085317	06/09/11 08:53	01
FLT_BLK	WG367001-07	HY.060911.085649	06/09/11 08:56	01
MW10-2	L11060205-08	HY.060911.093645	06/09/11 09:36	01
MW10-2-MS	L11060205-09	HY.060911.093831	06/09/11 09:38	01
MW10-2-MSD	L11060205-10	HY.060911.094014	06/09/11 09:40	01
DUPLICATE 6211	L11060205-11	HY.060911.094157	06/09/11 09:41	01

Report Name: BLANK_SUMMARY
PDF File ID: 2038801
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11060205 Prep Date: 06/08/11 08:48 Sample ID: WG367001-05
Instrument ID: HYDRA Run Date: 06/09/11 08:51 Prep Method: 7470A
File ID: HY.060911.085131 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG367024 Matrix: Water Units: mg/L
Contract #: Cal ID: HYDRA-09-JUN-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Mercury, Dissolved	0.000100	0.000200	0.000100	1	U

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2038802
09-JUN-2011 10:20

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367001-06
Instrument ID: HYDRA Run Time: 08:53 Prep Method: 7470A
File ID: HY.060911.085317 Analyst: PDM Method: 7470A
Workgroup (AAB#): WG367024 Matrix: Water Units: mg/L
QC Key: STD Lot#: STD45885 Cal ID: HYDRA-09-JUN-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Mercury, Dissolved	0.00400	0.00419	105	85 - 115	

LCS - Modified 03/06/2008
PDF File ID: 2038803
Report generated: 06/09/2011 10:20

Microbac Laboratories Inc.
INITIAL CALIBRATION BLANK (ICB)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-08
Instrument ID: HYDRA Run Time: 08:46 Method: 7470A
File ID: HY.060911.084606 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
Matrix: WATER

Analytes	MDL	RDL	Concentration	Qualifier
MERCURY	.1	.2	.1	U

ICB - Modified 07/14/2009
PDF File ID: 2038807
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-09
Instrument ID: HYDRA Run Time: 08:47 Method: 7470A
File ID: HY.060911.084753 Analyst: PDM QC Key: STD
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00200	mg/L	100	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038808
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-11
Instrument ID: HYDRA Run Time: 09:10 Method: 7470A
File ID: HY.060911.091049 Analyst: PDM QC Key: STD
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00196	mg/L	98.0	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038808
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-13
Instrument ID: HYDRA Run Time: 09:32 Method: 7470A
File ID: HY.060911.093256 Analyst: PDM QC Key: STD
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00201	mg/L	101	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038808
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-15
Instrument ID: HYDRA Run Time: 09:43 Method: 7470A
File ID: HY.060911.094352 Analyst: PDM QC Key: STD
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
Matrix: WATER

Analyte		Expected	Found	UNITS	%REC	LIMITS		Q
Mercury, Total		0.00200	0.00203	mg/L	102	80 - 120		

* Exceeds LIMITS Criteria

CCV - Modified 03/05/2008
PDF File ID: 2038808
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11060205	Run Date:	06/09/2011	Sample ID:	WG367137-10
Instrument ID:	HYDRA	Run Time:	08:49	Method:	7470A
File ID:	HY.060911.084939	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG367024	Cal ID:	HYDRA - 09-JUN-11		
Matrix:	WATER	QAPP:	OVAP		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038809
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11060205	Run Date:	06/09/2011	Sample ID:	WG367137-12
Instrument ID:	HYDRA	Run Time:	09:12	Method:	7470A
File ID:	HY.060911.091247	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG367024	Cal ID:	HYDRA - 09-JUN-11		
Matrix:	WATER	QAPP:	OVAP		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038809
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-14

Instrument ID: HYDRA Run Time: 09:34 Method: 7470A

File ID: HY.060911.093440 Analyst: PDM Units: ug/L

Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11

Matrix: WATER QAPP: OVAP

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038809
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

CONTINUING CALIBRATION BLANK (CCB)

Login Number:	L11060205	Run Date:	06/09/2011	Sample ID:	WG367137-16
Instrument ID:	HYDRA	Run Time:	09:46	Method:	7470A
File ID:	HY.060911.094600	Analyst:	PDM	Units:	ug/L
Workgroup (AAB#):	WG367024	Cal ID:	HYDRA - 09-JUN-11		
Matrix:	WATER	QAPP:	OVAP		

Analytes	MDL	RDL	Concentration	Qualifier
Mercury	0.100	0.200	0.100	U

U = Result is less than MDL.
F = Result is between MDL and RL.
* = Result is above RL.

CCB - Modified 03/05/2008
PDF File ID: 2038809
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

INITIAL CALIBRATION VERIFICATION (ICV)
(Alternate Source)

Login Number: L11060205 Run Date: 06/09/2011 Sample ID: WG367137-07
Instrument ID: HYDRA Run Time: 08:44 Method: 7470A
File ID: HY.060911.084422 Analyst: PDM Units: ug/L
Workgroup (AAB#): WG367024 Cal ID: HYDRA - 09-JUN-11
QC Key: STD

Analyte		Expected	Found	%REC	LIMITS	Q
Mercury		2	1.87	93.5	90 - 110	

* Exceeds LIMITS Limit

ICV - Modified 03/06/2008
PDF File ID: 2038806
Report generated 06/09/2011 10:20

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 060911A.PRN
Analyst1: PDM Analyst2: PWD
Method: 7470 SOP: ME404 Rev: 12
Maintenance Log ID: 37803

Calibration Std: STD45893 ICV Std: STD45887 Post Spike: STD45893
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

Workgroups: WG367024

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
1	HY.060911.083254	WG367137-01	Calibration Point		1		06/09/11 08:32
2	HY.060911.083437	WG367137-02	Calibration Point		1		06/09/11 08:34
3	HY.060911.083620	WG367137-03	Calibration Point		1		06/09/11 08:36
4	HY.060911.083846	WG367137-04	Calibration Point		1		06/09/11 08:38
5	HY.060911.084049	WG367137-05	Calibration Point		1		06/09/11 08:40
6	HY.060911.084234	WG367137-06	Calibration Point		1		06/09/11 08:42
7	HY.060911.084422	WG367137-07	Initial Calibration Verification		1		06/09/11 08:44
8	HY.060911.084606	WG367137-08	Initial Calib Blank		1		06/09/11 08:46
9	HY.060911.084753	WG367137-09	CCV		1		06/09/11 08:47
10	HY.060911.084939	WG367137-10	CCB		1		06/09/11 08:49
11	HY.060911.085131	WG367001-05	Method/Prep Blank	40/40	1		06/09/11 08:51
12	HY.060911.085317	WG367001-06	Laboratory Control S	40/40	1		06/09/11 08:53
13	HY.060911.085503	WG366912-01	Fluid Blank		1		06/09/11 08:55
14	HY.060911.085649	WG367001-07	Filter Blank		1		06/09/11 08:56
15	HY.060911.085906	L11060148-09	W5A-GW-060211	40/40	1		06/09/11 08:59
16	HY.060911.090049	L11060148-10	W3-GW-060211	40/40	1		06/09/11 09:00
17	HY.060911.090254	WG367001-01	Reference Sample	40/40	1	L11060148-11	06/09/11 09:02
18	HY.060911.090509	WG367024-01	Post Digestion Spike		1	L11060148-11	06/09/11 09:05
19	HY.060911.090702	L11060148-12	RW1-GW-060211-MS	36/40	1	WG367001-08	06/09/11 09:07
20	HY.060911.090857	L11060148-13	RW1-GW-060211-MSD	36/40	1	WG367001-09	06/09/11 09:08
21	HY.060911.091049	WG367137-11	CCV		1		06/09/11 09:10
22	HY.060911.091247	WG367137-12	CCB		1		06/09/11 09:12
23	HY.060911.091451	L11060148-14	W3A-GW-060211	40/40	1		06/09/11 09:14
24	HY.060911.091634	WG367001-02	Reference Sample	40/40	1	L11060153-01	06/09/11 09:16
25	HY.060911.091816	WG367001-03	Reference Sample	40/40	1	L11060153-02	06/09/11 09:18
26	HY.060911.092009	L11060153-03	193027-MS	36/40	1	WG367001-10	06/09/11 09:20
27	HY.060911.092212	L11060153-04	193027-MS	36/40	1	WG367001-12	06/09/11 09:22
28	HY.060911.092357	L11060153-05	193027-MSD	36/40	1	WG367001-11	06/09/11 09:23
29	HY.060911.092540	L11060153-06	193027-MSD	36/40	1	WG367001-13	06/09/11 09:25
30	HY.060911.092737	L11060184-01	TANK 407 EXTERIOR	4/40	1		06/09/11 09:27
31	HY.060911.092919	WG367024-02	Post Digestion Spike		1	L11060184-01	06/09/11 09:29
32	HY.060911.093113	L11060202-02	193025	40/40	1		06/09/11 09:31
33	HY.060911.093256	WG367137-13	CCV		1		06/09/11 09:32
34	HY.060911.093440	WG367137-14	CCB		1		06/09/11 09:34

  Approved: June 09, 2011

Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HYDRA Dataset: 060911A.PRN
Analyst1: PDM Analyst2: PWD
Method: 7470 SOP: ME404 Rev: 12
Maintenance Log ID: 37803

Calibration Std: STD45893 ICV Std: STD45887 Post Spike: STD45893
ICSA: N/A ICSAB: N/A Int. Std:
CCV: LLCCV:

Workgroups: WG367024

Comments:

Seq.	File ID	Sample	ID	Prep	Dil	Reference	Date/Time
35	HY.060911.093645	WG367001-04	Reference Sample	40/40	1	L11060205-08	06/09/11 09:36
36	HY.060911.093831	L11060205-09	MW10-2-MS	36/40	1	WG367001-14	06/09/11 09:38
37	HY.060911.094014	L11060205-10	MW10-2-MSD	36/40	1	WG367001-15	06/09/11 09:40
38	HY.060911.094157	L11060205-11	DUPLICATE 6211	40/40	1		06/09/11 09:41
39	HY.060911.094352	WG367137-15	CCV		1		06/09/11 09:43
40	HY.060911.094600	WG367137-16	CCB		1		06/09/11 09:46

  Approved: June 09, 2011

Microbac

Microbac Laboratories Inc.
Metals Digest Log

Workgroup: WG367001
Analyst: REK
Spike Analyst: REK
Method: 7470A
Run Date: 06/08/2011 08:48
Hotblock Start Temp: 94.8 @ 07:55
Hotblock End Temp: 93.9 @ 09:55

SOP: ME404 Revison 12
Spike Solution: STD45885
Spike Witness: VC
H2SO4 Lot #: COA15354
Digestion Tubes Lot #: COA15342
HNO3 Lot #: COA15474
K2S2O8 1:1 Lot #: RGT16087
KMnO4 1:1 Lot #: RGT16167
Mercury Water ICV Lot #: STD45887
HG H2O STDS 10PPM Lot #: STD45893

	SAMPLE #	Type	Matrix	Initial Amount	Final Volume	Spike Amount	Due Date
1	WG367001-05	BLANK	1	40 mL	40 mL		
2	WG366912-01	FBLK	17	4 mL	40 mL		
3	WG367001-07	FLT_BLK	1	40 mL	40 mL		
4	WG367001-06	LCS	1	40 mL	40 mL	4 mL	
5	L11060148-09	SAMP	1	40 mL	40 mL		06/17/11
6	L11060148-10	SAMP	1	40 mL	40 mL		06/17/11
7	WG367001-01	REF	1	40 mL	40 mL		
8	L11060148-11	RS01	1	40 mL	40 mL		06/17/11
9	WG367001-08	MS	1	36 mL	40 mL	4 mL	
10	L11060148-12	MS01	1	36 mL	40 mL	4 mL	06/17/11
11	WG367001-09	MSD	1	36 mL	40 mL	4 mL	
12	L11060148-13	SD01	1	36 mL	40 mL	4 mL	06/17/11
13	L11060148-14	SAMP	1	40 mL	40 mL		06/17/11
14	WG367001-02	REF	1	40 mL	40 mL		
15	L11060153-01	RS01	1	40 mL	40 mL		06/20/11
16	WG367001-03	REF	1	40 mL	40 mL		
17	L11060153-02	RS02	1	40 mL	40 mL		06/20/11
18	WG367001-10	MS	1	36 mL	40 mL	4 mL	
19	L11060153-03	MS01	1	36 mL	40 mL	4 mL	06/20/11
20	WG367001-12	MS	1	36 mL	40 mL	4 mL	
21	L11060153-04	MS02	1	36 mL	40 mL	4 mL	06/20/11
22	WG367001-11	MSD	1	36 mL	40 mL	4 mL	
23	L11060153-05	SD01	1	36 mL	40 mL	4 mL	06/20/11
24	WG367001-13	MSD	1	36 mL	40 mL	4 mL	
25	L11060153-06	SD02	1	36 mL	40 mL	4 mL	06/20/11
26	L11060184-01	SAMP	17	4 mL	40 mL		06/09/11
27	L11060202-02	SAMP	1	40 mL	40 mL		06/21/11
28	WG367001-04	REF	1	40 mL	40 mL		
29	L11060205-08	RS01	1	40 mL	40 mL		06/10/11
30	WG367001-14	MS	1	36 mL	40 mL	4 mL	
31	L11060205-09	MS01	1	36 mL	40 mL	4 mL	06/10/11
32	WG367001-15	MSD	1	36 mL	40 mL	4 mL	
33	L11060205-10	SD01	1	36 mL	40 mL	4 mL	06/10/11
34	L11060205-11	SAMP	1	40 mL	40 mL		06/10/11

L11060148-12	Lab. Filtered

HB_DIG - Modified 09/30/2009
PDF ID: 2036996
Report generated: 06/08/2011 10:53

Microbac Laboratories Inc.
Metals Digest Log

Workgroup:	WG367001	SOP:	ME404 Revison 12
Analyst:	REK	Spike Solution:	STD45885
Spike Analyst:	REK	Spike Witness:	VC
Method:	7470A	H2SO4 Lot #:	COA15354
Run Date:	06/08/2011 08:48	Digestion Tubes Lot #:	COA15342
Hotblock Start Temp:	94.8 @ 07:55	HNO3 Lot #:	COA15474
Hotblock End Temp:	93.9 @ 09:55	K2S2O8 1:1 Lot #:	RGT16087
		KMnO4 1:1 Lot #:	RGT16167
		Mercury Water ICV Lot #:	STD45887
		HG H2O STDS 10PPM Lot #:	STD45893

L11060148-13	Lab. Filtered
WG367001-07	Lab. Filtered
L11060148-11	Lab. Filtered
L11060202-02	Lab. Filtered
WG367001-01	Lab. Filtered
WG367001-08	Lab. Filtered
WG367001-09	Lab. Filtered

Analyst:

Reviewer:

HB_DIG - Modified 09/30/2009
PDF ID: 2036996
Report generated: 06/08/2011 10:53

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: Tetra Tech	Client Project Manager: Guy Montfort	Site Contact: Vicky Farmer	Lab Contact:	COC No:
Address: 250 W Court St #200W	Telephone:	Telephone: 513 348 2080	Telephone:	____ of ____ COCs
City/State/Zip: Cincinnati Ohio 45202	Email: Guy.Montfort@tetratech.com	Analysis Turnaround Time (In BUS days)		For lab use only
Phone: 513 333 3666		TAT if different from below ____		Walk-in client ☐
Project Name: Mansfield Stamping Plant	Method of Shipment/Carrier: Fed-Ex	☐ 3 weeks		Lab pickup ☐
Project Number: 103S171404	Shipping/Tracking No:	☐ 2 weeks		Lab sampling ☐
PO#		☐ 1 week		Job/SDG No:
		☐ 2 days		
		☐ 1 day		

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite = C / Grab = G	Analyses: VOC	Arsenic (Filtered)	PAH	RCRA Metals (Filtered)	Sample Specific Notes / Special Instructions:
MW5-2S	6-2-11	0825		X					X	X							X	X			
MW5-2D	↓	0952							X									X			
MW5-4		1125							X									X			
MW5-1		~~1350~~ 1326							X									X			
MW4-7		1715							X	X							X	X			
MW2-1		1506							X									X			
MW2-2		1600							X									X			
MW10-2		~~1350~~ 1350															X		X	X	MS & MSD
Duplicate 6211		1350																	NO PAH		

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
V Farmer	Tetra Tech	6/2/11 @1730			
Relinquished by:	Company:	Date/Time:	Receive		Time:
Relinquished by:	Company:	Date/Time:	Receive		Time:

Microbac OVD
Received: 06/03/2011 11:15
By: SUZANNE ROUGH
221000015412

Suzanne Rough

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TAL-0018 (1008)

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-01	842031	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Samplenum	Container ID	Products
L11060205-01	842032	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11060205-02	842033	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-03	842034	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11060205-04	842035	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11060205-05	842036	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-05	842037	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11060205-06	842038	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11060205-07	842039	AS-AXD

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	STORE	DIG	A2	08-JUN-2011 12:50	JKT	REK
4	ANALYZ*	DIG	METALS	08-JUN-2011 13:17	KHR	REK

***Sample extract/digestate/leachate**

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-08	842040	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:53	FJB	JKT

Samplenum	Container ID	Products
L11060205-08	842041	AG-D AS-AXD BA-D CD-D CR-D HG-D PB-AXD SE-AX-D

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	ANALYZ*	DIG	METALS	08-JUN-2011 11:43	PWD	REK
4	STORE	DIG	A2	08-JUN-2011 12:51	JKT	REK

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11060205-09	842042	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-09	842043	AG-D AS-AXD BA-D CD-D CR-D HG-D PB-AXD SE-AX-D

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	ANALYZ*	DIG	METALS	08-JUN-2011 11:43	PWD	REK
4	STORE	DIG	A2	08-JUN-2011 12:51	JKT	REK

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11060205-10	842044	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Samplenum	Container ID	Products
L11060205-10	842045	AG-D AS-AXD BA-D CD-D CR-D HG-D PB-AXD SE-AX-D

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	ANALYZ*	DIG	METALS	08-JUN-2011 11:43	PWD	REK
4	STORE	DIG	A2	08-JUN-2011 12:51	JKT	REK

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11060205
Account: 2755
Project: 2755.049
Samples: 12
Due Date: 10-JUN-2011

Samplenum	Container ID	Products
L11060205-11	842046	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 3

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Samplenum	Container ID	Products
L11060205-11	842047	PB-AXD SE-AX-D AG-D AS-AXD BA-D CD-D CR-D HG-[

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	W1	07-JUN-2011 14:56	JKT	
2	PREP	W1	DIG	08-JUN-2011 05:47	REK	AZH
3	ANALYZ*	DIG	METALS	08-JUN-2011 11:43	PWD	REK
4	STORE	DIG	A2	08-JUN-2011 12:51	JKT	REK

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11060205-12	842048	826-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER	V1	07-JUN-2011 14:56	JKT	
2	ANALYZ	V1	ORG4	07-JUN-2011 15:54	FJB	JKT

Bottle: 2

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish
1	LOGIN	COOLER		07-JUN-2011 14:56	JKT	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac

Laboratory Report Number: L11120224 *(Revised)*

Brandon Helm
Tetra Tech
250 W. Court St.
Cincinnati, OH 45202

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

This report was reviewed on January 05 2012

Tony Long – Team Chemist/Data Specialist
(740) 373-4071
Tony.Long@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on January 05 2012

David Vandenberg – Managing Director

State of Origin: OH
Accrediting Authority: N/A ID:N/A
QAPP: Ohio VAP - Certified Laboratory: CL0012

Microbac

Lab Report #: L11120224
Lab Project #: 2497.012
Project Name: Mansfield VAP
Lab Contact: Tony Long

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016344	G	5.0		1015923830760004575000795760436532
0015673	G	4.0		1001845330910004575000898709115390
0016437	G	5.0		1001845331040004575000898709115389

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct perservatives used? (water only)	NA
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Microbac

Lab Report #: L11120224
Lab Project #: 2497.012
Project Name: Mansfield VAP
Lab Contact: Tony Long

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
BORING 13 0-2	L11120224-01	12/06/2011 09:25	12/07/2011 13:03
BORING 13 2-4	L11120224-02	12/06/2011 09:25	12/07/2011 13:03
BORING 14 0-2	L11120224-03	12/06/2011 09:35	12/07/2011 13:03
BORING 14 2-4	L11120224-04	12/06/2011 09:35	12/07/2011 13:03
BORING 15 0-2	L11120224-05	12/06/2011 09:50	12/07/2011 13:03
BORING 15 2-4	L11120224-06	12/06/2011 09:50	12/07/2011 13:03
BORING 16 0-2	L11120224-07	12/06/2011 10:10	12/07/2011 13:03
BORING 16 2-4	L11120224-08	12/06/2011 10:10	12/07/2011 13:03
BORING 17 0-2	L11120224-09	12/06/2011 10:30	12/07/2011 13:03
BORING 17 2-4	L11120224-10	12/06/2011 10:30	12/07/2011 13:03
BORING 18 0-2	L11120224-11	12/06/2011 11:00	12/07/2011 13:03
BORING 18 2-4	L11120224-12	12/06/2011 11:00	12/07/2011 13:03
BORING 19 0-2	L11120224-13	12/06/2011 11:10	12/07/2011 13:03
BORING 19 2-4	L11120224-14	12/06/2011 11:10	12/07/2011 13:03
BORING 20 0-2	L11120224-15	12/06/2011 11:25	12/07/2011 13:03
BORING 20 2-4	L11120224-16	12/06/2011 11:25	12/07/2011 13:03
DUPLICATE 2	L11120224-17	12/06/2011 00:01	12/07/2011 13:03

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-01**
Client ID: **BORING 13 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **20**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 12:22**
Run Date: **12/13/2011 20:58**
File ID: **14G36115.R**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		111000	J	227000	45300
Carbon Range-C20-C34		426000		227000	45300

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl		43	136	DL
Octacosane		25	162	DL

DL Surrogate or spike compound was diluted out
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-01**
Client ID: **BORING 13 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 20:36**
File ID: **7M53697**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	86.0		6.24	3.12
Acenaphthylene	208-96-8	15.6		6.24	3.12
Acenaphthene	83-32-9	244		6.24	3.12
Fluorene	86-73-7	236		6.24	3.12
Phenanthrene	85-01-8	2600	I	6.24	3.12
Anthracene	120-12-7	578		6.24	3.12
Fluoranthene	206-44-0	3180	I	6.24	3.12
Pyrene	129-00-0	2720	I	6.24	3.12
Benzo(a)anthracene	56-55-3	1770	I	6.24	3.12
Chrysene	218-01-9	1690	I	6.24	3.12
Benzo(b)fluoranthene	205-99-2	1550	I	6.24	3.12
Benzo(k)fluoranthene	207-08-9	1310	I	6.24	3.12
Benzo(a)pyrene	50-32-8	1460	I	6.24	3.12
Indeno(1,2,3-cd)pyrene	193-39-5	859		6.24	3.12
Dibenzo(a,h)anthracene	53-70-3	305		6.24	3.12
Benzo(g,h,i)perylene	191-24-2	801		6.24	3.12
1-Methylnaphthalene	90-12-0	87.9		6.24	3.12
2-Methylnaphthalene	91-57-6	114		6.24	3.12

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	54.3	23	120	
2-Fluorobiphenyl	53.1	30	115	
p-Terphenyl-d14	78.7	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120224-01**
Client ID: **BORING 13 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:25**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **20**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 10:27**
File ID: **7M53704**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	93.7		62.4	31.2
Acenaphthylene	208-96-8		U	62.4	31.2
Acenaphthene	83-32-9	275		62.4	31.2
Fluorene	86-73-7	251		62.4	31.2
Phenanthrene	85-01-8	3460		62.4	31.2

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-01**
Client ID: **BORING 13 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:25**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **20**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 10:27**
File ID: **7M53704**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Anthracene	120-12-7	832		62.4	31.2
Fluoranthene	206-44-0	4910		62.4	31.2
Pyrene	129-00-0	3880		62.4	31.2
Benzo(a)anthracene	56-55-3	2160		62.4	31.2
Chrysene	218-01-9	2090		62.4	31.2
Benzo(b)fluoranthene	205-99-2	1980		62.4	31.2
Benzo(k)fluoranthene	207-08-9	1740		62.4	31.2
Benzo(a)pyrene	50-32-8	1850		62.4	31.2
Indeno(1,2,3-cd)pyrene	193-39-5	1130		62.4	31.2
Dibenzo(a,h)anthracene	53-70-3	370		62.4	31.2
Benzo(g,h,i)perylene	191-24-2	1160		62.4	31.2
1-Methylnaphthalene	90-12-0	98.7		62.4	31.2
2-Methylnaphthalene	91-57-6	115		62.4	31.2

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out

Sample Number: **L11120224-01**
Client ID: **BORING 13 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0102**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.5		1.00	1.00

Sample Number: **L11120224-02**
Client ID: **BORING 13 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 03:46**
File ID: **14G36077.R**
Percent Solid: **90.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		6950	J	12300	2450
Carbon Range-C20-C34		13700		12300	2450

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	95.6	43	136	
Octacosane	124	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-02**
Client ID: **BORING 13 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 19:15**
File ID: **7M53694**
Percent Solid: **90.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.50		2.88	1.44
Acenaphthylene	208-96-8		U	2.88	1.44
Acenaphthene	83-32-9	2.98		2.88	1.44
Fluorene	86-73-7	2.15	J	2.88	1.44
Phenanthrene	85-01-8	35.9		2.88	1.44
Anthracene	120-12-7	7.72		2.88	1.44
Fluoranthene	206-44-0	41.1		2.88	1.44
Pyrene	129-00-0	34.1		2.88	1.44
Benzo(a)anthracene	56-55-3	21.2		2.88	1.44
Chrysene	218-01-9	22.9		2.88	1.44
Benzo(b)fluoranthene	205-99-2	19.7		2.88	1.44
Benzo(k)fluoranthene	207-08-9	14.4		2.88	1.44
Benzo(a)pyrene	50-32-8	17.0		2.88	1.44
Indeno(1,2,3-cd)pyrene	193-39-5	9.17		2.88	1.44
Dibenzo(a,h)anthracene	53-70-3	4.71		2.88	1.44
Benzo(g,h,i)perylene	191-24-2	11.8		2.88	1.44
1-Methylnaphthalene	90-12-0	9.78		2.88	1.44
2-Methylnaphthalene	91-57-6	11.3		2.88	1.44

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	61.4	23	120	
2-Fluorobiphenyl	57.0	30	115	
p-Terphenyl-d14	67.2	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-02**
Client ID: **BORING 13 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 09:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0103**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.0		1.00	1.00

Sample Number: **L11120224-03**
Client ID: **BORING 14 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 04:33**
File ID: **14G36078.R**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		34100	J	12600	2520
Carbon Range-C20-C34		107000		12600	2520

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-03**
Client ID: **BORING 14 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 04:33**
File ID: **14G36078.R**
Percent Solid: **92.5**

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	101	43	136	
Octacosane	130	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-03**
Client ID: **BORING 14 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 20:09**
File ID: **7M53696**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	21.9		2.91	1.45
Acenaphthylene	208-96-8	2.15	J	2.91	1.45
Acenaphthene	83-32-9	12.9		2.91	1.45
Fluorene	86-73-7	16.0		2.91	1.45
Phenanthrene	85-01-8	173		2.91	1.45
Anthracene	120-12-7	38.4		2.91	1.45
Fluoranthene	206-44-0	274		2.91	1.45
Pyrene	129-00-0	223		2.91	1.45
Benzo(a)anthracene	56-55-3	147		2.91	1.45
Chrysene	218-01-9	143		2.91	1.45
Benzo(b)fluoranthene	205-99-2	128		2.91	1.45
Benzo(k)fluoranthene	207-08-9	119		2.91	1.45
Benzo(a)pyrene	50-32-8	124		2.91	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	67.9		2.91	1.45
Dibenzo(a,h)anthracene	53-70-3	22.8		2.91	1.45
Benzo(g,h,i)perylene	191-24-2	67.6		2.91	1.45
1-Methylnaphthalene	90-12-0	26.0		2.91	1.45
2-Methylnaphthalene	91-57-6	34.4		2.91	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	60.9	23	120	
2-Fluorobiphenyl	47.8	30	115	
p-Terphenyl-d14	57.5	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-03**
Client ID: **BORING 14 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0104**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.5		1.00	1.00

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-04**
Client ID: **BORING 14 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 17:02**
Run Date: **12/13/2011 18:37**
File ID: **14G36112.R**
Percent Solid: **92.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		12300		11800	2360
Carbon Range-C20-C34		19300		11800	2360

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	79.3	43	136	
Octacosane	106	25	162	

Sample Number: **L11120224-04**
Client ID: **BORING 14 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 19:42**
File ID: **7M53695**
Percent Solid: **92.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	1.75	J	2.93	1.47
Acenaphthylene	208-96-8		U	2.93	1.47
Acenaphthene	83-32-9		U	2.93	1.47
Fluorene	86-73-7		U	2.93	1.47
Phenanthrene	85-01-8	17.5		2.93	1.47
Anthracene	120-12-7	2.14	J	2.93	1.47
Fluoranthene	206-44-0	9.66		2.93	1.47
Pyrene	129-00-0	9.55		2.93	1.47
Benzo(a)anthracene	56-55-3	3.00		2.93	1.47
Chrysene	218-01-9	7.03		2.93	1.47
Benzo(b)fluoranthene	205-99-2		U	2.93	1.47
Benzo(k)fluoranthene	207-08-9		U	2.93	1.47
Benzo(a)pyrene	50-32-8	2.18	J	2.93	1.47
Indeno(1,2,3-cd)pyrene	193-39-5		U	2.93	1.47
Dibenzo(a,h)anthracene	53-70-3		U	2.93	1.47
Benzo(g,h,i)perylene	191-24-2	3.73		2.93	1.47
1-Methylnaphthalene	90-12-0	2.76	J	2.93	1.47
2-Methylnaphthalene	91-57-6	2.87	J	2.93	1.47

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	70.6	23	120	
2-Fluorobiphenyl	58.9	30	115	
p-Terphenyl-d14	66.9	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-04**
Client ID: **BORING 14 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 09:35**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0105**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.2		1.00	1.00

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-05**
Client ID: **BORING 15 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 09:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **20**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 17:02**
Run Date: **12/15/2011 16:13**
File ID: **14G36170.R**
Percent Solid: **91.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		287000		242000	48400
Carbon Range-C20-C34		1150000		242000	48400

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl		43	136	DL
Octacosane		25	162	DL

DL Surrogate or spike compound was diluted out

Sample Number: **L11120224-05**
Client ID: **BORING 15 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:50**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 16:19**
File ID: **7M53717**
Percent Solid: **91.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	186		24.8	12.4
Acenaphthylene	208-96-8	57.1		24.8	12.4
Acenaphthene	83-32-9	1200		24.8	12.4
Fluorene	86-73-7	1120		24.8	12.4
Phenanthrene	85-01-8	11000	I	24.8	12.4
Anthracene	120-12-7	2390		24.8	12.4
Fluoranthene	206-44-0	13100	I	24.8	12.4
Pyrene	129-00-0	11100	I	24.8	12.4
Benzo(a)anthracene	56-55-3	7150	I	24.8	12.4
Chrysene	218-01-9	6800	I	24.8	12.4
Benzo(b)fluoranthene	205-99-2	6000	I	24.8	12.4
Benzo(k)fluoranthene	207-08-9	4890		24.8	12.4
Benzo(a)pyrene	50-32-8	5950	I	24.8	12.4
Indeno(1,2,3-cd)pyrene	193-39-5	3680		24.8	12.4
Dibenzo(a,h)anthracene	53-70-3	1320		24.8	12.4
Benzo(g,h,i)perylene	191-24-2	3450		24.8	12.4
1-Methylnaphthalene	90-12-0	232		24.8	12.4
2-Methylnaphthalene	91-57-6	261		24.8	12.4

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	69.6	23	120	
2-Fluorobiphenyl	95.7	30	115	
p-Terphenyl-d14	103	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120224-05**
Client ID: **BORING 15 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:50**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **100**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 10:34**
File ID: **7M53723**
Percent Solid: **91.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	194	J	248	124
Acenaphthylene	208-96-8		U	248	124
Acenaphthene	83-32-9	1170		248	124
Fluorene	86-73-7	1150		248	124
Phenanthrene	85-01-8	14000		248	124
Anthracene	120-12-7	3460		248	124

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number:	L11120224-05	PrePrep Method:	NONE	Instrument:	HPMS7
Client ID:	BORING 15 0-2	Prep Method:	3545	Prep Date:	12/08/2011 15:10
Matrix:	Soil	Analytical Method:	8270C	Cal Date:	12/09/2011 11:14
Workgroup Number:	WG384313	Analyst:	CAA	Run Date:	12/14/2011 10:34
Collect Date:	12/06/2011 09:50	Dilution:	100	File ID:	7M53723
Sample Tag:	DL02	Units:	ug/kg	Percent Solid:	91.7

Analyte	CAS. Number	Result	Qual	RL	MDL
Fluoranthene	206-44-0	19700		248	124
Pyrene	129-00-0	15400		248	124
Benzo(a)anthracene	56-55-3	8410		248	124
Chrysene	218-01-9	8510		248	124
Benzo(b)fluoranthene	205-99-2	7470		248	124
Benzo(k)fluoranthene	207-08-9	7160		248	124
Benzo(a)pyrene	50-32-8	7260		248	124
Indeno(1,2,3-cd)pyrene	193-39-5	4310		248	124
Dibenzo(a,h)anthracene	53-70-3	1450		248	124
Benzo(g,h,i)perylene	191-24-2	4280		248	124
1-Methylnaphthalene	90-12-0	234	J	248	124
2-Methylnaphthalene	91-57-6	251		248	124

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number:	L11120224-05	PrePrep Method:	NONE	Instrument:	BAL001
Client ID:	BORING 15 0-2	Prep Method:	D2216-90	Prep Date:	12/09/2011 09:20
Matrix:	Soil	Analytical Method:	D2216-90	Cal Date:	
Workgroup Number:	WG384177	Analyst:	JDH	Run Date:	12/09/2011 09:20
Collect Date:	12/06/2011 09:50	Dilution:	1	File ID:	B1.384177-0106
Sample Tag:	01	Units:	weight %		

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.7		1.00	1.00

Sample Number:	L11120224-06	PrePrep Method:	NONE	Instrument:	HP14
Client ID:	BORING 15 2-4	Prep Method:	3545	Prep Date:	12/08/2011 15:11
Matrix:	Soil	Analytical Method:	8015C	Cal Date:	09/20/2011 14:40
Workgroup Number:	WG384320	Analyst:	HAV	Run Date:	12/10/2011 06:07
Collect Date:	12/06/2011 09:50	Dilution:	1	File ID:	14G36080.R
Sample Tag:	01	Units:	ug/kg	Percent Solid:	90.9

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		7040	J	9940	1990
Carbon Range-C20-C34		6210	J	9940	1990

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	70.5	43	136	
Octacosane	97.5	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-06**
Client ID: **BORING 15 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 10:54**
File ID: **7M53705**
Percent Solid: **90.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.06		3.13	1.57
Acenaphthylene	208-96-8		U	3.13	1.57
Acenaphthene	83-32-9	1.75	J	3.13	1.57
Fluorene	86-73-7		U	3.13	1.57
Phenanthrene	85-01-8	21.4		3.13	1.57
Anthracene	120-12-7	4.50		3.13	1.57
Fluoranthene	206-44-0	23.3		3.13	1.57
Pyrene	129-00-0	18.3		3.13	1.57
Benzo(a)anthracene	56-55-3	9.28		3.13	1.57
Chrysene	218-01-9	12.5		3.13	1.57
Benzo(b)fluoranthene	205-99-2	9.73		3.13	1.57
Benzo(k)fluoranthene	207-08-9	6.69		3.13	1.57
Benzo(a)pyrene	50-32-8	7.50		3.13	1.57
Indeno(1,2,3-cd)pyrene	193-39-5	4.61		3.13	1.57
Dibenzo(a,h)anthracene	53-70-3	2.26	J	3.13	1.57
Benzo(g,h,i)perylene	191-24-2	6.62		3.13	1.57
1-Methylnaphthalene	90-12-0	2.53	J	3.13	1.57
2-Methylnaphthalene	91-57-6	2.78	J	3.13	1.57

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	65.6	23	120	
2-Fluorobiphenyl	51.2	30	115	
p-Terphenyl-d14	57.9	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-06**
Client ID: **BORING 15 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 09:50**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0107**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.9		1.00	1.00

Sample Number: **L11120224-07**
Client ID: **BORING 16 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 06:55**
File ID: **14G36081.R**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		15000		10400	2090
Carbon Range-C20-C34		34500		10400	2090

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	69.8	43	136	
Octacosane	118	25	162	

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-07**
Client ID: **BORING 16 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 14:58**
File ID: **7M53714**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	6.19		2.88	1.44
Acenaphthylene	208-96-8	1.54	J	2.88	1.44
Acenaphthene	83-32-9	31.7		2.88	1.44
Fluorene	86-73-7	32.4		2.88	1.44
Phenanthrene	85-01-8	364		2.88	1.44
Anthracene	120-12-7	77.2		2.88	1.44
Fluoranthene	206-44-0	526		2.88	1.44
Pyrene	129-00-0	448		2.88	1.44
Benzo(a)anthracene	56-55-3	276		2.88	1.44
Chrysene	218-01-9	260		2.88	1.44
Benzo(b)fluoranthene	205-99-2	213		2.88	1.44
Benzo(k)fluoranthene	207-08-9	219		2.88	1.44
Benzo(a)pyrene	50-32-8	224		2.88	1.44
Indeno(1,2,3-cd)pyrene	193-39-5	132		2.88	1.44
Dibenzo(a,h)anthracene	53-70-3	45.4		2.88	1.44
Benzo(g,h,i)perylene	191-24-2	142		2.88	1.44
1-Methylnaphthalene	90-12-0	9.67		2.88	1.44
2-Methylnaphthalene	91-57-6	10.4		2.88	1.44

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.0	23	120	
2-Fluorobiphenyl	55.0	30	115	
p-Terphenyl-d14	67.0	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-07**
Client ID: **BORING 16 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0108**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.6		1.00	1.00

Sample Number: **L11120224-08**
Client ID: **BORING 16 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 17:02**
Run Date: **12/13/2011 19:24**
File ID: **14G36113.R**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		21600		11800	2360
Carbon Range-C20-C34		17800		11800	2360

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	76.0	43	136	
Octacosane	108	25	162	

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-08**
Client ID: **BORING 16 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 11:48**
File ID: **7M53707**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	3.14	1.57
Acenaphthylene	208-96-8		U	3.14	1.57
Acenaphthene	83-32-9		U	3.14	1.57
Fluorene	86-73-7		U	3.14	1.57
Phenanthrene	85-01-8	8.91		3.14	1.57
Anthracene	120-12-7		U	3.14	1.57
Fluoranthene	206-44-0	7.06		3.14	1.57
Pyrene	129-00-0	6.09		3.14	1.57
Benzo(a)anthracene	56-55-3	3.74		3.14	1.57
Chrysene	218-01-9	5.33		3.14	1.57
Benzo(b)fluoranthene	205-99-2	4.15		3.14	1.57
Benzo(k)fluoranthene	207-08-9	2.62	J	3.14	1.57
Benzo(a)pyrene	50-32-8	2.77	J	3.14	1.57
Indeno(1,2,3-cd)pyrene	193-39-5	2.13	J	3.14	1.57
Dibenzo(a,h)anthracene	53-70-3		U	3.14	1.57
Benzo(g,h,i)perylene	191-24-2	3.98		3.14	1.57
1-Methylnaphthalene	90-12-0	4.06		3.14	1.57
2-Methylnaphthalene	91-57-6	3.37		3.14	1.57

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	70.3	23	120	
2-Fluorobiphenyl	59.1	30	115	
p-Terphenyl-d14	56.5	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-08**
Client ID: **BORING 16 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 10:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0109**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.9		1.00	1.00

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 10:51**
File ID: **14G36086.R**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		7350	J	12000	2390
Carbon Range-C20-C34		19400		12000	2390

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 10:51**
File ID: **14G36086.R**
Percent Solid: **89.2**

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	56.6	43	136	
Octacosane	98.0	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **2**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 15:25**
File ID: **7M53715**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	18.9		5.88	2.94
Acenaphthylene	208-96-8	7.79		5.88	2.94
Acenaphthene	83-32-9	66.7		5.88	2.94
Fluorene	86-73-7	66.1		5.88	2.94
Phenanthrene	85-01-8	935		5.88	2.94
Anthracene	120-12-7	227		5.88	2.94
Fluoranthene	206-44-0	1530	I	5.88	2.94
Pyrene	129-00-0	1280	I	5.88	2.94
Benzo(a)anthracene	56-55-3	831		5.88	2.94
Chrysene	218-01-9	784		5.88	2.94
Benzo(b)fluoranthene	205-99-2	804		5.88	2.94
Benzo(k)fluoranthene	207-08-9	682		5.88	2.94
Benzo(a)pyrene	50-32-8	756		5.88	2.94
Indeno(1,2,3-cd)pyrene	193-39-5	485		5.88	2.94
Dibenzo(a,h)anthracene	53-70-3	163		5.88	2.94
Benzo(g,h,i)perylene	191-24-2	485		5.88	2.94
1-Methylnaphthalene	90-12-0	19.1		5.88	2.94
2-Methylnaphthalene	91-57-6	23.2		5.88	2.94

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	59.0	23	120	
2-Fluorobiphenyl	55.5	30	115	
p-Terphenyl-d14	64.7	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:30**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **20**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 09:41**
File ID: **7M53721**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	58.8	29.4
Acenaphthylene	208-96-8		U	58.8	29.4
Acenaphthene	83-32-9	61.6		58.8	29.4
Fluorene	86-73-7	63.4		58.8	29.4
Phenanthrene	85-01-8	1030		58.8	29.4
Anthracene	120-12-7	290		58.8	29.4
Fluoranthene	206-44-0	1990		58.8	29.4
Pyrene	129-00-0	1550		58.8	29.4

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:30**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **20**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 09:41**
File ID: **7M53721**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Benzo(a)anthracene	56-55-3	861		58.8	29.4
Chrysene	218-01-9	916		58.8	29.4
Benzo(b)fluoranthene	205-99-2	905		58.8	29.4
Benzo(k)fluoranthene	207-08-9	825		58.8	29.4
Benzo(a)pyrene	50-32-8	853		58.8	29.4
Indeno(1,2,3-cd)pyrene	193-39-5	532		58.8	29.4
Dibenzo(a,h)anthracene	53-70-3	246		58.8	29.4
Benzo(g,h,i)perylene	191-24-2	564		58.8	29.4
1-Methylnaphthalene	90-12-0		U	58.8	29.4
2-Methylnaphthalene	91-57-6		U	58.8	29.4

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out

Sample Number: **L11120224-09**
Client ID: **BORING 17 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0110**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.2		1.00	1.00

Sample Number: **L11120224-10**
Client ID: **BORING 17 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 08:29**
File ID: **14G36083.R**
Percent Solid: **89.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		12600		11700	2350
Carbon Range-C20-C34		15600		11700	2350

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	80.3	43	136	
Octacosane	114	25	162	

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-10**
Client ID: **BORING 17 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 12:15**
File ID: **7M53708**
Percent Solid: **89.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	3.65		3.10	1.55
Acenaphthylene	208-96-8	1.61	J	3.10	1.55
Acenaphthene	83-32-9	2.28	J	3.10	1.55
Fluorene	86-73-7	3.05	J	3.10	1.55
Phenanthrene	85-01-8	16.8		3.10	1.55
Anthracene	120-12-7	4.46		3.10	1.55
Fluoranthene	206-44-0	14.1		3.10	1.55
Pyrene	129-00-0	13.3		3.10	1.55
Benzo(a)anthracene	56-55-3	7.03		3.10	1.55
Chrysene	218-01-9	11.6		3.10	1.55
Benzo(b)fluoranthene	205-99-2	8.66		3.10	1.55
Benzo(k)fluoranthene	207-08-9	6.41		3.10	1.55
Benzo(a)pyrene	50-32-8	6.85		3.10	1.55
Indeno(1,2,3-cd)pyrene	193-39-5	5.15		3.10	1.55
Dibenzo(a,h)anthracene	53-70-3	3.16		3.10	1.55
Benzo(g,h,i)perylene	191-24-2	9.00		3.10	1.55
1-Methylnaphthalene	90-12-0	4.87		3.10	1.55
2-Methylnaphthalene	91-57-6	5.26		3.10	1.55

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	60.0	23	120	
2-Fluorobiphenyl	48.5	30	115	
p-Terphenyl-d14	53.2	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-10**
Client ID: **BORING 17 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 10:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0111**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.0		1.00	1.00

Sample Number: **L11120224-11**
Client ID: **BORING 18 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 11:38**
File ID: **14G36087.R**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		7700	J	12100	2430
Carbon Range-C20-C34		25700		12100	2430

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	63.0	43	136	
Octacosane	97.7	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-11**
Client ID: **BORING 18 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 14:04**
File ID: **7M53712**
Percent Solid: **90.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	2.58	J	3.08	1.54
Acenaphthylene	208-96-8		U	3.08	1.54
Acenaphthene	83-32-9	9.17		3.08	1.54
Fluorene	86-73-7	12.6		3.08	1.54
Phenanthrene	85-01-8	173		3.08	1.54
Anthracene	120-12-7	46.6		3.08	1.54
Fluoranthene	206-44-0	268		3.08	1.54
Pyrene	129-00-0	212		3.08	1.54
Benzo(a)anthracene	56-55-3	126		3.08	1.54
Chrysene	218-01-9	124		3.08	1.54
Benzo(b)fluoranthene	205-99-2	111		3.08	1.54
Benzo(k)fluoranthene	207-08-9	110		3.08	1.54
Benzo(a)pyrene	50-32-8	110		3.08	1.54
Indeno(1,2,3-cd)pyrene	193-39-5	69.3		3.08	1.54
Dibenzo(a,h)anthracene	53-70-3	23.0		3.08	1.54
Benzo(g,h,i)perylene	191-24-2	73.4		3.08	1.54
1-Methylnaphthalene	90-12-0	5.57		3.08	1.54
2-Methylnaphthalene	91-57-6	5.43		3.08	1.54

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.9	23	120	
2-Fluorobiphenyl	56.7	30	115	
p-Terphenyl-d14	69.4	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-11**
Client ID: **BORING 18 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0112**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.6		1.00	1.00

Sample Number: **L11120224-12**
Client ID: **BORING 18 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 17:02**
Run Date: **12/13/2011 20:11**
File ID: **14G36114.R**
Percent Solid: **89.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		8350	J	11600	2320
Carbon Range-C20-C34		10300	J	11600	2320

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-12**
Client ID: **BORING 18 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 17:02**
Run Date: **12/13/2011 20:11**
File ID: **14G36114.R**
Percent Solid: **89.1**

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	97.5	43	136	
Octacosane	117	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-12**
Client ID: **BORING 18 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 11:21**
File ID: **7M53706**
Percent Solid: **89.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	3.02	1.51
Acenaphthylene	208-96-8		U	3.02	1.51
Acenaphthene	83-32-9		U	3.02	1.51
Fluorene	86-73-7		U	3.02	1.51
Phenanthrene	85-01-8	5.88		3.02	1.51
Anthracene	120-12-7		U	3.02	1.51
Fluoranthene	206-44-0	4.39		3.02	1.51
Pyrene	129-00-0	3.01	J	3.02	1.51
Benzo(a)anthracene	56-55-3	2.49	J	3.02	1.51
Chrysene	218-01-9	7.40		3.02	1.51
Benzo(b)fluoranthene	205-99-2	3.52		3.02	1.51
Benzo(k)fluoranthene	207-08-9	2.60	J	3.02	1.51
Benzo(a)pyrene	50-32-8	1.54	J	3.02	1.51
Indeno(1,2,3-cd)pyrene	193-39-5		U	3.02	1.51
Dibenzo(a,h)anthracene	53-70-3		U	3.02	1.51
Benzo(g,h,i)perylene	191-24-2	2.51	J	3.02	1.51
1-Methylnaphthalene	90-12-0		U	3.02	1.51
2-Methylnaphthalene	91-57-6		U	3.02	1.51

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	77.6	23	120	
2-Fluorobiphenyl	73.5	30	115	
p-Terphenyl-d14	64.2	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-12**
Client ID: **BORING 18 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0113**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.1		1.00	1.00

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-13**
Client ID: **BORING 19 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **20**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **12/13/2011 12:22**
Run Date: **12/13/2011 21:46**
File ID: **14G36116.R**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		345000		223000	44600
Carbon Range-C20-C34		1260000		223000	44600

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl		43	136	DL
Octacosane		25	162	DL

DL Surrogate or spike compound was diluted out

Sample Number: **L11120224-13**
Client ID: **BORING 19 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:10**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 15:52**
File ID: **7M53716**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	136		13.0	6.48
Acenaphthylene	208-96-8	29.6		13.0	6.48
Acenaphthene	83-32-9	578		13.0	6.48
Fluorene	86-73-7	574		13.0	6.48
Phenanthrene	85-01-8	6510	I	13.0	6.48
Anthracene	120-12-7	1170		13.0	6.48
Fluoranthene	206-44-0	6830	I	13.0	6.48
Pyrene	129-00-0	5370	I	13.0	6.48
Benzo(a)anthracene	56-55-3	3460	I	13.0	6.48
Chrysene	218-01-9	3280	I	13.0	6.48
Benzo(b)fluoranthene	205-99-2	2750	I	13.0	6.48
Benzo(k)fluoranthene	207-08-9	2680	I	13.0	6.48
Benzo(a)pyrene	50-32-8	2730	I	13.0	6.48
Indeno(1,2,3-cd)pyrene	193-39-5	1680		13.0	6.48
Dibenzo(a,h)anthracene	53-70-3	610		13.0	6.48
Benzo(g,h,i)perylene	191-24-2	1590		13.0	6.48
1-Methylnaphthalene	90-12-0	122		13.0	6.48
2-Methylnaphthalene	91-57-6	152		13.0	6.48

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	50.9	23	120	
2-Fluorobiphenyl	57.4	30	115	
p-Terphenyl-d14	127	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120224-13**
Client ID: **BORING 19 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:10**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 10:07**
File ID: **7M53722**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	140		130	64.8
Acenaphthylene	208-96-8		U	130	64.8
Acenaphthene	83-32-9	580		130	64.8
Fluorene	86-73-7	639		130	64.8
Phenanthrene	85-01-8	8300		130	64.8
Anthracene	120-12-7	1710		130	64.8

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-13**
Client ID: **BORING 19 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:10**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 10:07**
File ID: **7M53722**
Percent Solid: **89.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Fluoranthene	206-44-0	9920		130	64.8
Pyrene	129-00-0	7390		130	64.8
Benzo(a)anthracene	56-55-3	3980		130	64.8
Chrysene	218-01-9	3930		130	64.8
Benzo(b)fluoranthene	205-99-2	3480		130	64.8
Benzo(k)fluoranthene	207-08-9	3350		130	64.8
Benzo(a)pyrene	50-32-8	3290		130	64.8
Indeno(1,2,3-cd)pyrene	193-39-5	1960		130	64.8
Dibenzo(a,h)anthracene	53-70-3	671		130	64.8
Benzo(g,h,i)perylene	191-24-2	1960		130	64.8
1-Methylnaphthalene	90-12-0	126	J	130	64.8
2-Methylnaphthalene	91-57-6	144		130	64.8

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-13**
Client ID: **BORING 19 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0114**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.7		1.00	1.00

Sample Number: **L11120224-14**
Client ID: **BORING 19 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 13:12**
File ID: **14G36089.R**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		21500		12100	2430
Carbon Range-C20-C34		22500		12100	2430

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	73.9	43	136	
Octacosane	103	25	162	

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-14**
Client ID: **BORING 19 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 13:09**
File ID: **7M53710**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	3.15	J	3.16	1.58
Acenaphthylene	208-96-8		U	3.16	1.58
Acenaphthene	83-32-9	1.96	J	3.16	1.58
Fluorene	86-73-7		U	3.16	1.58
Phenanthrene	85-01-8	21.6		3.16	1.58
Anthracene	120-12-7	20.9		3.16	1.58
Fluoranthene	206-44-0	9.04		3.16	1.58
Pyrene	129-00-0	8.92		3.16	1.58
Benzo(a)anthracene	56-55-3	2.92	J	3.16	1.58
Chrysene	218-01-9	8.88		3.16	1.58
Benzo(b)fluoranthene	205-99-2		U	3.16	1.58
Benzo(k)fluoranthene	207-08-9		U	3.16	1.58
Benzo(a)pyrene	50-32-8	2.36	J	3.16	1.58
Indeno(1,2,3-cd)pyrene	193-39-5	1.74	J	3.16	1.58
Dibenzo(a,h)anthracene	53-70-3		U	3.16	1.58
Benzo(g,h,i)perylene	191-24-2	6.77		3.16	1.58
1-Methylnaphthalene	90-12-0	6.46		3.16	1.58
2-Methylnaphthalene	91-57-6	5.48		3.16	1.58

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	53.7	23	120	
2-Fluorobiphenyl	45.6	30	115	
p-Terphenyl-d14	61.7	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-14**
Client ID: **BORING 19 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:10**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0115**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.6		1.00	1.00

Sample Number: **L11120224-15**
Client ID: **BORING 20 0-2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 13:59**
File ID: **14G36090.R**
Percent Solid: **89.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		169000		11700	2330
Carbon Range-C20-C34		425000		11700	2330

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	59.5	43	136	
Octacosane	86.2	25	162	

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-15**
Client ID: **BORING 20 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:25**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **20**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 16:46**
File ID: **7M53718**
Percent Solid: **89.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	736		65.3	32.7
Acenaphthylene	208-96-8	242		65.3	32.7
Acenaphthene	83-32-9	5460		65.3	32.7
Fluorene	86-73-7	4610		65.3	32.7
Phenanthrene	85-01-8	42700	I	65.3	32.7
Anthracene	120-12-7	10200		65.3	32.7
Fluoranthene	206-44-0	51300	I	65.3	32.7
Pyrene	129-00-0	45600	I	65.3	32.7
Benzo(a)anthracene	56-55-3	30800	I	65.3	32.7
Chrysene	218-01-9	29300	I	65.3	32.7
Benzo(b)fluoranthene	205-99-2	26000	I	65.3	32.7
Benzo(k)fluoranthene	207-08-9	22400	I	65.3	32.7
Benzo(a)pyrene	50-32-8	25200	I	65.3	32.7
Indeno(1,2,3-cd)pyrene	193-39-5	16000	I	65.3	32.7
Dibenzo(a,h)anthracene	53-70-3	5760		65.3	32.7
Benzo(g,h,i)perylene	191-24-2	14900	I	65.3	32.7
1-Methylnaphthalene	90-12-0	922		65.3	32.7
2-Methylnaphthalene	91-57-6	1020		65.3	32.7

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

DL Surrogate or spike compound was diluted out
I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120224-15**
Client ID: **BORING 20 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:25**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **200**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 11:01**
File ID: **7M53724**
Percent Solid: **89.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	750		653	327
Acenaphthylene	208-96-8		U	653	327
Acenaphthene	83-32-9	5970		653	327
Fluorene	86-73-7	4650		653	327
Phenanthrene	85-01-8	58500		653	327
Anthracene	120-12-7	14000		653	327
Fluoranthene	206-44-0	82800		653	327
Pyrene	129-00-0	66500		653	327
Benzo(a)anthracene	56-55-3	37900		653	327
Chrysene	218-01-9	36700		653	327
Benzo(b)fluoranthene	205-99-2	33500		653	327
Benzo(k)fluoranthene	207-08-9	30100		653	327
Benzo(a)pyrene	50-32-8	31700		653	327
Indeno(1,2,3-cd)pyrene	193-39-5	19100		653	327
Dibenzo(a,h)anthracene	53-70-3	6490		653	327
Benzo(g,h,i)perylene	191-24-2	18900		653	327
1-Methylnaphthalene	90-12-0	938		653	327
2-Methylnaphthalene	91-57-6	948		653	327

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-15**
Client ID: **BORING 20 0-2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:25**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **200**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/14/2011 11:01**
File ID: **7M53724**
Percent Solid: **89.3**

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out

Sample Number: **L11120224-15**
Client ID: **BORING 20 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0116**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.3		1.00	1.00

Sample Number: **L11120224-16**
Client ID: **BORING 20 2-4**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 14:46**
File ID: **14G36091.R**
Percent Solid: **90.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		12400	J	12500	2490
Carbon Range-C20-C34		6910	J	12500	2490

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	59.1	43	136	
Octacosane	80.7	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-16**
Client ID: **BORING 20 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 14:31**
File ID: **7M53713**
Percent Solid: **90.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	5.17		2.90	1.45
Acenaphthylene	208-96-8		U	2.90	1.45
Acenaphthene	83-32-9	2.52	J	2.90	1.45
Fluorene	86-73-7		U	2.90	1.45
Phenanthrene	85-01-8	43.2		2.90	1.45
Anthracene	120-12-7	4.05		2.90	1.45
Fluoranthene	206-44-0	30.3		2.90	1.45

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-16**
Client ID: **BORING 20 2-4**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 14:31**
File ID: **7M53713**
Percent Solid: **90.7**

Analyte	CAS. Number	Result	Qual	RL	MDL
Pyrene	129-00-0	27.8		2.90	1.45
Benzo(a)anthracene	56-55-3	11.3		2.90	1.45
Chrysene	218-01-9	19.2		2.90	1.45
Benzo(b)fluoranthene	205-99-2	13.4		2.90	1.45
Benzo(k)fluoranthene	207-08-9	7.32		2.90	1.45
Benzo(a)pyrene	50-32-8	9.81		2.90	1.45
Indeno(1,2,3-cd)pyrene	193-39-5	6.49		2.90	1.45
Dibenzo(a,h)anthracene	53-70-3	3.33		2.90	1.45
Benzo(g,h,i)perylene	191-24-2	15.0		2.90	1.45
1-Methylnaphthalene	90-12-0	14.2		2.90	1.45
2-Methylnaphthalene	91-57-6	11.0		2.90	1.45

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	64.5	23	120	
2-Fluorobiphenyl	54.2	30	115	
p-Terphenyl-d14	67.5	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-16**
Client ID: **BORING 20 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 11:25**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0117**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.7		1.00	1.00

Sample Number: **L11120224-17**
Client ID: **DUPLICATE 2**
Matrix: **Soil**
Workgroup Number: **WG384320**
Collect Date: **12/06/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 15:11**
Cal Date: **09/20/2011 14:40**
Run Date: **12/10/2011 15:34**
File ID: **14G36092.R**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		7950	J	12500	2510
Carbon Range-C20-C34		3610	J	12500	2510

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	60.4	43	136	
Octacosane	82.2	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120224**
Report Date : **January 5, 2012**

Sample Number: **L11120224-17**
Client ID: **DUPLICATE 2**
Matrix: **Soil**
Workgroup Number: **WG384313**
Collect Date: **12/06/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 15:10**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 12:42**
File ID: **7M53709**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.21		3.27	1.63
Acenaphthylene	208-96-8	3.13	J	3.27	1.63
Acenaphthene	83-32-9	4.84		3.27	1.63
Fluorene	86-73-7	6.40		3.27	1.63
Phenanthrene	85-01-8	16.6		3.27	1.63
Anthracene	120-12-7	8.47		3.27	1.63
Fluoranthene	206-44-0	14.4		3.27	1.63
Pyrene	129-00-0	12.2		3.27	1.63
Benzo(a)anthracene	56-55-3	7.08		3.27	1.63
Chrysene	218-01-9	10.3		3.27	1.63
Benzo(b)fluoranthene	205-99-2	8.48		3.27	1.63
Benzo(k)fluoranthene	207-08-9	6.54		3.27	1.63
Benzo(a)pyrene	50-32-8	5.89		3.27	1.63
Indeno(1,2,3-cd)pyrene	193-39-5	4.74		3.27	1.63
Dibenzo(a,h)anthracene	53-70-3	2.32	J	3.27	1.63
Benzo(g,h,i)perylene	191-24-2	7.27		3.27	1.63
1-Methylnaphthalene	90-12-0	5.97		3.27	1.63
2-Methylnaphthalene	91-57-6	5.95		3.27	1.63

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	61.4	23	120	
2-Fluorobiphenyl	51.6	30	115	
p-Terphenyl-d14	72.5	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120224-17**
Client ID: **DUPLICATE 2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/06/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0118**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.6		1.00	1.00

Login Number: L11120224
Department: Volatiles
Analyst: Tiffany Bailey

METHOD

Preparation SW-846 5030C/5035A

Analysis SW-846 8260B

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: The percent difference was out of range for the following analytes: Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: Recoveries out of range were observed for the following analytes: Dichlorodifluoromethane. Please see the applicable QC report for a detailed presentation of the failures.

Matrix Spikes: The MS/MSD results were not associated with this sample delivery group (SDG), due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac Laboratories recommends site specific MS/MSD samples to avoid possible data qualifications.

SAMPLES

Internal Standards: Recoveries out of range were observed for the following analytes:1,4-Dichlorobenzene-d4. Please see the applicable QC report for a detailed presentation of the failures. Reanalysis confirmed the outlier.

Surrogates: All acceptance criteria were met.

Other: None.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak. In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak. This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

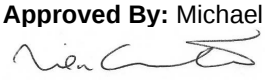
Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline. There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous. Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 40345
Approved By: Michael Albertson



Login Number: L11120224
Department: Semivolatiles
Analyst: Cassie A. Augenstein

METHOD

Preparation 3545

Analysis SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: Samples 01, 05, 09, 13 and 15 were analyzed at a dilution due to the appearance and viscosity of the extracts. These samples all required additional dilutions to be within calibration range.

Internal Standards: All acceptance criteria were met.

Surrogates: Surrogates were diluted out of sample 15. All other acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

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Narrative ID: 39955
Approved By: Mike Cochran

Login Number: L11120224
Department: General Chromatography
Analyst: Hema Vilasagar

Preparation 3545

Analysis SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: Samples 01, 05 and 13 were analyzed at a dilution due to the appearance of the extracts.

Surrogates: Surrogates were diluted out of samples 01, 05 and 13.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

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Narrative ID: 40053
Approved By: Mike Cochran

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
January 5, 2012

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CS – CODY M. STRAHLER	CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DHG – DEBORAH H. GRIFFITHS
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DSM – DAVID S. MOSSOR	ECL – ERIC C. LAWSON
EDL – ERIN D. LONG	ERP – ERIN R. PORTER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKS – JANE K. SCHAAD
JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
REK – BOB E. KYER	RLB – BOB BUCHANAN	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SJP – SUZANNE J. PAUGH	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
January 05, 2012

Qualkey: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated value; the analyte concentration was less than the RL/LOQ.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

Organic QA/QC

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120224
Work Group: WG384306
Blank File ID: 9M90339
Blank Sample ID: WG384306-01
Prep Date: 12/09/11 15:50
Instrument ID: HPMS9
Analyzed Date: 12/09/11 15:50
Method: 8260B
Analyst: TMB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384306-02	9M90340	12/09/11 16:21	01
BORING 13 0-2	L11120224-01	9M90350	12/09/11 21:27	01
BORING 14 2-4	L11120224-04	9M90353	12/09/11 22:57	01
BORING 15 0-2	L11120224-05	9M90354	12/09/11 23:27	01
BORING 15 2-4	L11120224-06	9M90355	12/09/11 23:57	01
BORING 16 0-2	L11120224-07	9M90356	12/10/11 00:27	01
BORING 16 2-4	L11120224-08	9M90357	12/10/11 00:57	01
BORING 17 0-2	L11120224-09	9M90358	12/10/11 01:27	01
DUPLICATE 2	L11120224-17	9M90359	12/10/11 01:57	01

Report Name: BLANK_SUMMARY
PDF File ID: 2264326
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11120224	Work Group:	WG384546
Blank File ID:	9M90412	Blank Sample ID:	WG384546-01
Prep Date:	12/13/11 15:38	Instrument ID:	HPMS9
Analyzed Date:	12/13/11 15:38	Method:	8260B
Analyst:	TMB		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384546-02	9M90411	12/13/11 15:06	01
BORING 14 0-2	L11120224-03	9M90424	12/13/11 21:53	02
BORING 17 2-4	L11120224-10	9M90426	12/13/11 22:55	01
BORING 18 0-2	L11120224-11	9M90427	12/13/11 23:26	01

Report Name: BLANK_SUMMARY
PDF File ID: 2264326
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120224
Work Group: WG384788
Blank File ID: 9M90473
Blank Sample ID: WG384788-01
Prep Date: 12/15/11 10:52
Instrument ID: HPMS9
Analyzed Date: 12/15/11 10:52
Method: 8260B
Analyst: TMB

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384788-02	9M90474	12/15/11 11:25	01
BORING 13 2-4	L11120224-02	9M90486	12/15/11 18:13	02
BORING 18 2-4	L11120224-12	9M90487	12/15/11 18:49	01
BORING 19 0-2	L11120224-13	9M90488	12/15/11 19:24	01
BORING 19 2-4	L11120224-14	9M90489	12/15/11 19:59	01
BORING 20 0-2	L11120224-15	9M90490	12/15/11 20:34	01

Report Name: BLANK_SUMMARY
PDF File ID: 2264326
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number:	L11120224	**Work Group:**	WG384945
Blank File ID:	9M90509	**Blank Sample ID:**	WG384945-01
Prep Date:	12/16/11 10:09	**Instrument ID:**	HPMS9
Analyzed Date:	12/16/11 10:09	**Method:**	8260B
Analyst:	TMB		

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
BORING 20 2-4	L11120224-16	9M90510	12/16/11 10:39	01
LCS	WG384945-02	9M90511	12/16/11 11:09	01

Report Name: BLANK_SUMMARY
PDF File ID: 2264326
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11120224 Prep Date:12/09/11 15:50 Sample ID:WG384306-01
Instrument ID:HPMS9 Run Date:12/09/11 15:50 Prep Method:5030B/5030C/503
File ID:9M90339 Analyst:TMB Method:8260B
Workgroup (AAB#):WG384306 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	5.00	10.0	5.00	1	U
Benzene	0.500	5.00	0.500	1	U
Bromobenzene	0.500	5.00	0.500	1	U
Bromochloromethane	1.00	5.00	1.00	1	U
Bromodichloromethane	0.500	5.00	0.500	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	1.00	10.0	1.00	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.500	5.00	0.500	1	U
sec-Butylbenzene	0.500	5.00	0.500	1	U
tert-Butylbenzene	0.500	5.00	0.500	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.500	5.00	0.500	1	U
Chlorobenzene	0.500	5.00	0.500	1	U
Chlorodibromomethane	0.500	5.00	0.500	1	U
Chloroethane	1.00	10.0	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.500	5.00	0.500	1	U
Chloromethane	2.00	10.0	2.00	1	U
2-Chlorotoluene	0.500	5.00	0.500	1	U
4-Chlorotoluene	0.500	5.00	0.500	1	U
1,2-Dibromo-3-chloropropane	2.00	5.00	2.00	1	U
1,2-Dibromoethane	0.500	5.00	0.500	1	U
Dibromomethane	0.500	5.00	0.500	1	U
1,2-Dichlorobenzene	0.500	5.00	0.500	1	U
1,3-Dichlorobenzene	0.500	5.00	0.500	1	U
1,4-Dichlorobenzene	0.500	5.00	0.500	1	U
Dichlorodifluoromethane	1.00	10.0	1.00	1	U
1,1-Dichloroethane	1.00	5.00	1.00	1	U
1,2-Dichloroethane	0.500	5.00	0.500	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
cis-1,2-Dichloroethene	0.500	5.00	0.500	1	U
trans-1,2-Dichloroethene	0.500	5.00	0.500	1	U
1,2-Dichloropropane	0.500	5.00	0.500	1	U
1,3-Dichloropropane	0.500	5.00	0.500	1	U
2,2-Dichloropropane	0.500	5.00	0.500	1	U
cis-1,3-Dichloropropene	0.500	5.00	0.500	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.500	5.00	0.500	1	U
Ethylbenzene	0.500	5.00	0.500	1	U
n-Hexane	1.00	5.00	1.00	1	U
2-Hexanone	2.50	10.0	2.50	1	U

Report Name:BLANK
PDF ID: 2264327
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11120224 Prep Date:12/09/11 15:50 Sample ID:WG384306-01
Instrument ID:HPMS9 Run Date:12/09/11 15:50 Prep Method:5030B/5030C/503
File ID:9M90339 Analyst:TMB Method:8260B
Workgroup (AAB#):WG384306 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Hexachlorobutadiene	0.500	5.00	0.500	1	U
Isopropylbenzene	0.500	5.00	0.500	1	U
p-Isopropyltoluene	0.500	5.00	0.500	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	1.00	5.00	1.00	1	U
Naphthalene	0.500	10.0	0.500	1	U
n-Propylbenzene	0.500	5.00	0.500	1	U
Styrene	0.500	5.00	0.500	1	U
1,1,1,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	0.500	1	U
Tetrachloroethene	0.500	5.00	0.500	1	U
Toluene	0.500	5.00	0.500	1	U
1,2,3-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,4-Trichlorobenzene	0.500	5.00	0.500	1	U
1,1,1-Trichloroethane	0.500	5.00	0.500	1	U
1,1,2-Trichloroethane	0.500	5.00	0.500	1	U
Trichloroethene	0.500	5.00	0.500	1	U
Trichlorofluoromethane	1.00	10.0	1.00	1	U
1,2,3-Trichloropropane	1.00	5.00	1.00	1	U
1,2,4-Trimethylbenzene	0.500	5.00	0.500	1	U
1,3,5-Trimethylbenzene	0.500	5.00	0.500	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	1.00	2.00	1.00	1	U
o-Xylene	0.500	5.00	0.500	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	96.7	80 - 120	PASS
1,2-Dichloroethane-d4	90.8	80 - 120	PASS
Toluene-d8	99.2	81 - 117	PASS
4-Bromofluorobenzene	96.1	74 - 121	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2264327
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11120224 Prep Date:12/13/11 15:38 Sample ID:WG384546-01
Instrument ID:HPMS9 Run Date:12/13/11 15:38 Prep Method:5030B/5030C/503
File ID:9M90412 Analyst:TMB Method:8260B
Workgroup (AAB#):WG384546 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	5.00	10.0	5.00	1	U
Benzene	0.500	5.00	0.500	1	U
Bromobenzene	0.500	5.00	0.500	1	U
Bromochloromethane	1.00	5.00	1.00	1	U
Bromodichloromethane	0.500	5.00	0.500	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	1.00	10.0	1.00	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.500	5.00	0.500	1	U
sec-Butylbenzene	0.500	5.00	0.500	1	U
tert-Butylbenzene	0.500	5.00	0.500	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.500	5.00	0.500	1	U
Chlorobenzene	0.500	5.00	0.500	1	U
Chlorodibromomethane	0.500	5.00	0.500	1	U
Chloroethane	1.00	10.0	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.500	5.00	0.500	1	U
Chloromethane	2.00	10.0	2.00	1	U
2-Chlorotoluene	0.500	5.00	0.500	1	U
4-Chlorotoluene	0.500	5.00	0.500	1	U
1,2-Dibromo-3-chloropropane	2.00	5.00	2.00	1	U
1,2-Dibromoethane	0.500	5.00	0.500	1	U
Dibromomethane	0.500	5.00	0.500	1	U
1,2-Dichlorobenzene	0.500	5.00	0.500	1	U
1,3-Dichlorobenzene	0.500	5.00	0.500	1	U
1,4-Dichlorobenzene	0.500	5.00	0.500	1	U
Dichlorodifluoromethane	1.00	10.0	1.00	1	U
1,1-Dichloroethane	1.00	5.00	1.00	1	U
1,2-Dichloroethane	0.500	5.00	0.500	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
cis-1,2-Dichloroethene	0.500	5.00	0.500	1	U
trans-1,2-Dichloroethene	0.500	5.00	0.500	1	U
1,2-Dichloropropane	0.500	5.00	0.500	1	U
1,3-Dichloropropane	0.500	5.00	0.500	1	U
2,2-Dichloropropane	0.500	5.00	0.500	1	U
cis-1,3-Dichloropropene	0.500	5.00	0.500	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.500	5.00	0.500	1	U
Ethylbenzene	0.500	5.00	0.500	1	U
n-Hexane	1.00	5.00	1.00	1	U
2-Hexanone	2.50	10.0	2.50	1	U

Report Name:BLANK
PDF ID: 2264327
22-DEC-2011 13:20

Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L11120224 Prep Date: 12/13/11 15:38 Sample ID: WG384546-01
Instrument ID: HPMS9 Run Date: 12/13/11 15:38 Prep Method: 5030B/5030C/503
File ID: 9M90412 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384546 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Hexachlorobutadiene	0.500	5.00	0.500	1	U
Isopropylbenzene	0.500	5.00	0.500	1	U
p-Isopropyltoluene	0.500	5.00	0.500	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	1.00	5.00	1.00	1	U
Naphthalene	0.500	10.0	0.535	1	J
n-Propylbenzene	0.500	5.00	0.500	1	U
Styrene	0.500	5.00	0.500	1	U
1,1,1,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	0.500	1	U
Tetrachloroethene	0.500	5.00	0.500	1	U
Toluene	0.500	5.00	0.500	1	U
1,2,3-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,4-Trichlorobenzene	0.500	5.00	0.500	1	U
1,1,1-Trichloroethane	0.500	5.00	0.500	1	U
1,1,2-Trichloroethane	0.500	5.00	0.500	1	U
Trichloroethene	0.500	5.00	0.500	1	U
Trichlorofluoromethane	1.00	10.0	1.00	1	U
1,2,3-Trichloropropane	1.00	5.00	1.00	1	U
1,2,4-Trimethylbenzene	0.500	5.00	0.500	1	U
1,3,5-Trimethylbenzene	0.500	5.00	0.500	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	1.00	2.00	1.00	1	U
o-Xylene	0.500	5.00	0.500	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	99.1	80 - 120	PASS
1,2-Dichloroethane-d4	91.6	80 - 120	PASS
Toluene-d8	97.9	81 - 117	PASS
4-Bromofluorobenzene	94.7	74 - 121	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2264327
22-DEC-2011 13:20

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11120224 Prep Date:12/15/11 10:52 Sample ID:WG384788-01
Instrument ID:HPMS9 Run Date:12/15/11 10:52 Prep Method:5030B/5030C/503
File ID:9M90473 Analyst:TMB Method:8260B
Workgroup (AAB#):WG384788 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	5.00	10.0	5.00	1	U
Benzene	0.500	5.00	0.500	1	U
Bromobenzene	0.500	5.00	0.500	1	U
Bromochloromethane	1.00	5.00	1.00	1	U
Bromodichloromethane	0.500	5.00	0.500	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	1.00	10.0	1.00	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.500	5.00	0.500	1	U
sec-Butylbenzene	0.500	5.00	0.500	1	U
tert-Butylbenzene	0.500	5.00	0.500	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.500	5.00	0.500	1	U
Chlorobenzene	0.500	5.00	0.500	1	U
Chlorodibromomethane	0.500	5.00	0.500	1	U
Chloroethane	1.00	10.0	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.500	5.00	0.500	1	U
Chloromethane	2.00	10.0	2.00	1	U
2-Chlorotoluene	0.500	5.00	0.500	1	U
4-Chlorotoluene	0.500	5.00	0.500	1	U
1,2-Dibromo-3-chloropropane	2.00	5.00	2.00	1	U
1,2-Dibromoethane	0.500	5.00	0.500	1	U
Dibromomethane	0.500	5.00	0.500	1	U
1,2-Dichlorobenzene	0.500	5.00	0.500	1	U
1,3-Dichlorobenzene	0.500	5.00	0.500	1	U
1,4-Dichlorobenzene	0.500	5.00	0.500	1	U
Dichlorodifluoromethane	1.00	10.0	1.00	1	U
1,1-Dichloroethane	1.00	5.00	1.00	1	U
1,2-Dichloroethane	0.500	5.00	0.500	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
cis-1,2-Dichloroethene	0.500	5.00	0.500	1	U
trans-1,2-Dichloroethene	0.500	5.00	0.500	1	U
1,2-Dichloropropane	0.500	5.00	0.500	1	U
1,3-Dichloropropane	0.500	5.00	0.500	1	U
2,2-Dichloropropane	0.500	5.00	0.500	1	U
cis-1,3-Dichloropropene	0.500	5.00	0.500	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.500	5.00	0.500	1	U
Ethylbenzene	0.500	5.00	0.500	1	U
n-Hexane	1.00	5.00	1.00	1	U
2-Hexanone	2.50	10.0	2.50	1	U

Report Name:BLANK
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Microbac Laboratories Inc.
METHOD BLANK REPORT

Login Number: L11120224 Prep Date: 12/15/11 10:52 Sample ID: WG384788-01
Instrument ID: HPMS9 Run Date: 12/15/11 10:52 Prep Method: 5030B/5030C/503
File ID: 9M90473 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384788 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Hexachlorobutadiene	0.500	5.00	0.500	1	U
Isopropylbenzene	0.500	5.00	0.500	1	U
p-Isopropyltoluene	0.500	5.00	0.500	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	1.00	5.00	1.00	1	U
Naphthalene	0.500	10.0	0.500	1	U
n-Propylbenzene	0.500	5.00	0.500	1	U
Styrene	0.500	5.00	0.500	1	U
1,1,1,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	0.500	1	U
Tetrachloroethene	0.500	5.00	0.500	1	U
Toluene	0.500	5.00	0.500	1	U
1,2,3-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,4-Trichlorobenzene	0.500	5.00	0.500	1	U
1,1,1-Trichloroethane	0.500	5.00	0.500	1	U
1,1,2-Trichloroethane	0.500	5.00	0.500	1	U
Trichloroethene	0.500	5.00	0.500	1	U
Trichlorofluoromethane	1.00	10.0	1.00	1	U
1,2,3-Trichloropropane	1.00	5.00	1.00	1	U
1,2,4-Trimethylbenzene	0.500	5.00	0.500	1	U
1,3,5-Trimethylbenzene	0.500	5.00	0.500	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	1.00	2.00	1.00	1	U
o-Xylene	0.500	5.00	0.500	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	98.2	80 - 120	PASS
1,2-Dichloroethane-d4	96.1	80 - 120	PASS
Toluene-d8	97.5	81 - 117	PASS
4-Bromofluorobenzene	96.6	74 - 121	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number:L11120224 Prep Date:12/16/11 10:09 Sample ID:WG384945-01
Instrument ID:HPMS9 Run Date:12/16/11 10:09 Prep Method:5030B/5030C/503
File ID:9M90509 Analyst:TMB Method:8260B
Workgroup (AAB#):WG384945 Matrix:Soil Units:ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Acetone	5.00	10.0	5.00	1	U
Benzene	0.500	5.00	0.500	1	U
Bromobenzene	0.500	5.00	0.500	1	U
Bromochloromethane	1.00	5.00	1.00	1	U
Bromodichloromethane	0.500	5.00	0.500	1	U
Bromoform	0.500	5.00	0.500	1	U
Bromomethane	1.00	10.0	1.00	1	U
2-Butanone	2.50	10.0	2.50	1	U
n-Butylbenzene	0.500	5.00	0.500	1	U
sec-Butylbenzene	0.500	5.00	0.500	1	U
tert-Butylbenzene	0.500	5.00	0.500	1	U
Carbon disulfide	0.500	5.00	0.500	1	U
Carbon tetrachloride	0.500	5.00	0.500	1	U
Chlorobenzene	0.500	5.00	0.500	1	U
Chlorodibromomethane	0.500	5.00	0.500	1	U
Chloroethane	1.00	10.0	1.00	1	U
2-Chloroethyl vinyl ether	2.00	10.0	2.00	1	U
Chloroform	0.500	5.00	0.500	1	U
Chloromethane	2.00	10.0	2.00	1	U
2-Chlorotoluene	0.500	5.00	0.500	1	U
4-Chlorotoluene	0.500	5.00	0.500	1	U
1,2-Dibromo-3-chloropropane	2.00	5.00	2.00	1	U
1,2-Dibromoethane	0.500	5.00	0.500	1	U
Dibromomethane	0.500	5.00	0.500	1	U
1,2-Dichlorobenzene	0.500	5.00	0.500	1	U
1,3-Dichlorobenzene	0.500	5.00	0.500	1	U
1,4-Dichlorobenzene	0.500	5.00	0.500	1	U
Dichlorodifluoromethane	1.00	10.0	1.00	1	U
1,1-Dichloroethane	1.00	5.00	1.00	1	U
1,2-Dichloroethane	0.500	5.00	0.500	1	U
1,1-Dichloroethene	0.500	5.00	0.500	1	U
cis-1,2-Dichloroethene	0.500	5.00	0.500	1	U
trans-1,2-Dichloroethene	0.500	5.00	0.500	1	U
1,2-Dichloropropane	0.500	5.00	0.500	1	U
1,3-Dichloropropane	0.500	5.00	0.500	1	U
2,2-Dichloropropane	0.500	5.00	0.500	1	U
cis-1,3-Dichloropropene	0.500	5.00	0.500	1	U
trans-1,3-Dichloropropene	0.500	5.00	0.500	1	U
1,1-Dichloropropene	0.500	5.00	0.500	1	U
Ethylbenzene	0.500	5.00	0.500	1	U
n-Hexane	1.00	5.00	1.00	1	U
2-Hexanone	2.50	10.0	2.50	1	U

Report Name:BLANK
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Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11120224 Prep Date: 12/16/11 10:09 Sample ID: WG384945-01
Instrument ID: HPMS9 Run Date: 12/16/11 10:09 Prep Method: 5030B/5030C/503
File ID: 9M90509 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384945 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS9-10-NOV-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Hexachlorobutadiene	0.500	5.00	0.500	1	U
Isopropylbenzene	0.500	5.00	0.500	1	U
p-Isopropyltoluene	0.500	5.00	0.500	1	U
4-Methyl-2-pentanone	2.50	10.0	2.50	1	U
Methylene chloride	1.00	5.00	1.00	1	U
Naphthalene	0.500	10.0	0.500	1	U
n-Propylbenzene	0.500	5.00	0.500	1	U
Styrene	0.500	5.00	0.500	1	U
1,1,1,2-Tetrachloroethane	0.500	5.00	0.500	1	U
1,1,2,2-Tetrachloroethane	0.500	5.00	0.500	1	U
Tetrachloroethene	0.500	5.00	0.500	1	U
Toluene	0.500	5.00	0.500	1	U
1,2,3-Trichlorobenzene	0.500	5.00	0.500	1	U
1,2,4-Trichlorobenzene	0.500	5.00	0.500	1	U
1,1,1-Trichloroethane	0.500	5.00	0.500	1	U
1,1,2-Trichloroethane	0.500	5.00	0.500	1	U
Trichloroethene	0.500	5.00	0.500	1	U
Trichlorofluoromethane	1.00	10.0	1.00	1	U
1,2,3-Trichloropropane	1.00	5.00	1.00	1	U
1,2,4-Trimethylbenzene	0.500	5.00	0.500	1	U
1,3,5-Trimethylbenzene	0.500	5.00	0.500	1	U
Vinyl acetate	2.50	10.0	2.50	1	U
Vinyl chloride	1.00	2.00	1.00	1	U
o-Xylene	0.500	5.00	0.500	1	U
m-,p-Xylene	0.500	5.00	0.500	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	97.3	80 - 120	PASS
1,2-Dichloroethane-d4	92.3	80 - 120	PASS
Toluene-d8	97.5	81 - 117	PASS
4-Bromofluorobenzene	93.7	74 - 121	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2264327
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Login Number: L11120224 Run Date: 12/09/2011 Sample ID: WG384306-02
Instrument ID: HPMS9 Run Time: 16:21 Prep Method: 5030B/5030C/503
File ID: 9M90340 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384306 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	12.4	61.8	20 - 160	
Benzene	20.0	18.2	90.9	70 - 130	
Bromobenzene	20.0	20.4	102	72 - 131	
Bromochloromethane	20.0	19.3	96.4	70 - 130	
Bromodichloromethane	20.0	19.0	95.2	72 - 137	
Bromoform	20.0	21.7	108	49 - 136	
Bromomethane	20.0	19.7	98.6	37 - 143	
2-Butanone	20.0	11.9	59.7	37 - 180	
n-Butylbenzene	20.0	19.3	96.7	70 - 136	
sec-Butylbenzene	20.0	20.1	100	71 - 132	
tert-Butylbenzene	20.0	20.4	102	72 - 130	
Carbon disulfide	20.0	13.8	68.9	39 - 139	
Carbon tetrachloride	20.0	23.6	118	59 - 136	
Chlorobenzene	20.0	19.4	97.1	70 - 130	
Chlorodibromomethane	20.0	20.8	104	59 - 136	
Chloroethane	20.0	16.7	83.6	52 - 135	
2-Chloroethyl vinyl ether	20.0	15.4	77.0	35 - 154	
Chloroform	20.0	18.4	92.2	74 - 129	
Chloromethane	20.0	17.8	88.8	30 - 131	
2-Chlorotoluene	20.0	20.6	103	63 - 147	
4-Chlorotoluene	20.0	18.7	93.3	70 - 138	
1,2-Dibromo-3-chloropropane	20.0	21.8	109	40 - 135	
1,2-Dibromoethane	20.0	19.8	99.2	69 - 130	
Dibromomethane	20.0	18.6	93.0	69 - 130	
1,2-Dichlorobenzene	20.0	19.3	96.4	70 - 130	
1,3-Dichlorobenzene	20.0	19.3	96.6	70 - 130	
1,4-Dichlorobenzene	20.0	19.5	97.4	70 - 130	
Dichlorodifluoromethane	20.0	24.7	124	25 - 130	
1,1-Dichloroethane	20.0	18.6	92.8	75 - 125	
1,2-Dichloroethane	20.0	18.5	92.6	63 - 133	
1,1-Dichloroethene	20.0	17.8	89.0	65 - 135	
cis-1,2-Dichloroethene	20.0	20.6	103	70 - 130	
trans-1,2-Dichloroethene	20.0	18.3	91.4	72 - 127	
1,2-Dichloropropane	20.0	16.6	83.2	72 - 130	
1,3-Dichloropropane	20.0	18.9	94.7	65 - 128	
2,2-Dichloropropane	20.0	22.1	110	66 - 135	
cis-1,3-Dichloropropene	20.0	18.0	89.9	70 - 142	
trans-1,3-Dichloropropene	20.0	19.9	99.7	65 - 139	
1,1-Dichloropropene	20.0	19.8	98.8	57 - 138	
Ethylbenzene	20.0	19.8	99.2	70 - 130	
n-Hexane	20.0	16.2	81.0	58 - 142	

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/09/2011 Sample ID: WG384306-02
Instrument ID: HPMS9 Run Time: 16:21 Prep Method: 5030B/5030C/503
File ID: 9M90340 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384306 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
2-Hexanone	20.0	12.7	63.4	45 - 145	
Hexachlorobutadiene	20.0	20.4	102	65 - 135	
Isopropylbenzene	20.0	17.3	86.6	68 - 129	
p-Isopropyltoluene	20.0	19.1	95.4	72 - 128	
4-Methyl-2-pentanone	20.0	13.9	69.3	47 - 146	
Methylene chloride	20.0	16.9	84.7	74 - 128	
Naphthalene	20.0	21.8	109	50 - 146	
n-Propylbenzene	20.0	19.4	97.2	72 - 136	
Styrene	20.0	19.1	95.7	74 - 130	
1,1,1,2-Tetrachloroethane	20.0	22.1	111	71 - 137	
1,1,2,2-Tetrachloroethane	20.0	20.7	104	55 - 130	
Tetrachloroethene	20.0	20.1	101	72 - 130	
Toluene	20.0	19.2	96.0	77 - 126	
1,2,3-Trichlorobenzene	20.0	19.8	99.0	60 - 135	
1,2,4-Trichlorobenzene	20.0	19.0	94.9	65 - 130	
1,1,1-Trichloroethane	20.0	22.3	112	70 - 135	
1,1,2-Trichloroethane	20.0	19.1	95.3	60 - 125	
Trichloroethene	20.0	18.9	94.7	72 - 126	
Trichlorofluoromethane	20.0	21.7	108	48 - 154	
1,2,3-Trichloropropane	20.0	20.5	102	65 - 130	
1,2,4-Trimethylbenzene	20.0	19.8	98.9	75 - 132	
1,3,5-Trimethylbenzene	20.0	20.6	103	74 - 133	
Vinyl acetate	20.0	16.8	83.9	10 - 150	
Vinyl chloride	20.0	22.5	112	45 - 140	
o-Xylene	20.0	19.2	96.0	70 - 130	
m-,p-Xylene	40.0	38.5	96.3	70 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	98.9	80 - 120	PASS
1,2-Dichloroethane-d4	94.0	80 - 120	PASS
Toluene-d8	99.3	81 - 117	PASS
4-Bromofluorobenzene	98.0	74 - 121	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384546-02
Instrument ID: HPMS9 Run Time: 15:06 Prep Method: 5030B/5030C/503
File ID: 9M90411 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384546 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	13.3	66.7	20 - 160	
Benzene	20.0	18.4	91.9	70 - 130	
Bromobenzene	20.0	20.2	101	72 - 131	
Bromochloromethane	20.0	20.2	101	70 - 130	
Bromodichloromethane	20.0	19.1	95.6	72 - 137	
Bromoform	20.0	21.4	107	49 - 136	
Bromomethane	20.0	20.2	101	37 - 143	
2-Butanone	20.0	13.0	65.0	37 - 180	
n-Butylbenzene	20.0	18.3	91.5	70 - 136	
sec-Butylbenzene	20.0	18.9	94.7	71 - 132	
tert-Butylbenzene	20.0	19.6	97.8	72 - 130	
Carbon disulfide	20.0	16.8	83.8	39 - 139	
Carbon tetrachloride	20.0	23.4	117	59 - 136	
Chlorobenzene	20.0	19.3	96.7	70 - 130	
Chlorodibromomethane	20.0	20.5	103	59 - 136	
Chloroethane	20.0	17.4	87.0	52 - 135	
2-Chloroethyl vinyl ether	20.0	15.3	76.6	35 - 154	
Chloroform	20.0	19.6	98.0	74 - 129	
Chloromethane	20.0	19.3	96.5	30 - 131	
2-Chlorotoluene	20.0	20.1	101	63 - 147	
4-Chlorotoluene	20.0	18.2	91.0	70 - 138	
1,2-Dibromo-3-chloropropane	20.0	22.4	112	40 - 135	
1,2-Dibromoethane	20.0	20.1	101	69 - 130	
Dibromomethane	20.0	20.2	101	69 - 130	
1,2-Dichlorobenzene	20.0	19.5	97.5	70 - 130	
1,3-Dichlorobenzene	20.0	19.0	95.2	70 - 130	
1,4-Dichlorobenzene	20.0	19.4	97.1	70 - 130	
Dichlorodifluoromethane	20.0	24.8	124	25 - 130	
1,1-Dichloroethane	20.0	17.9	89.7	75 - 125	
1,2-Dichloroethane	20.0	19.5	97.5	63 - 133	
1,1-Dichloroethene	20.0	18.3	91.3	65 - 135	
cis-1,2-Dichloroethene	20.0	20.0	99.8	70 - 130	
trans-1,2-Dichloroethene	20.0	18.2	90.8	72 - 127	
1,2-Dichloropropane	20.0	17.0	85.0	72 - 130	
1,3-Dichloropropane	20.0	18.5	92.7	65 - 128	
2,2-Dichloropropane	20.0	21.4	107	66 - 135	
cis-1,3-Dichloropropene	20.0	17.3	86.7	70 - 142	
trans-1,3-Dichloropropene	20.0	19.3	96.5	65 - 139	
1,1-Dichloropropene	20.0	19.4	97.1	57 - 138	
Ethylbenzene	20.0	19.5	97.7	70 - 130	
n-Hexane	20.0	17.8	88.8	58 - 142	

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384546-02
Instrument ID: HPMS9 Run Time: 15:06 Prep Method: 5030B/5030C/503
File ID: 9M90411 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384546 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
2-Hexanone	20.0	13.1	65.5	45 - 145	
Hexachlorobutadiene	20.0	20.0	100	65 - 135	
Isopropylbenzene	20.0	17.2	86.0	68 - 129	
p-Isopropyltoluene	20.0	18.4	92.0	72 - 128	
4-Methyl-2-pentanone	20.0	14.4	72.2	47 - 146	
Methylene chloride	20.0	18.1	90.4	74 - 128	
Naphthalene	20.0	21.7	109	50 - 146	
n-Propylbenzene	20.0	18.4	92.1	72 - 136	
Styrene	20.0	20.0	99.9	74 - 130	
1,1,1,2-Tetrachloroethane	20.0	22.7	114	71 - 137	
1,1,2,2-Tetrachloroethane	20.0	20.1	100	55 - 130	
Tetrachloroethene	20.0	20.6	103	72 - 130	
Toluene	20.0	19.4	97.1	77 - 126	
1,2,3-Trichlorobenzene	20.0	25.1	126	60 - 135	
1,2,4-Trichlorobenzene	20.0	19.0	95.2	65 - 130	
1,1,1-Trichloroethane	20.0	22.7	113	70 - 135	
1,1,2-Trichloroethane	20.0	18.6	93.1	60 - 125	
Trichloroethene	20.0	19.2	96.1	72 - 126	
Trichlorofluoromethane	20.0	22.0	110	48 - 154	
1,2,3-Trichloropropane	20.0	20.4	102	65 - 130	
1,2,4-Trimethylbenzene	20.0	19.7	98.5	75 - 132	
1,3,5-Trimethylbenzene	20.0	20.0	99.8	74 - 133	
Vinyl acetate	20.0	16.2	80.9	10 - 150	
Vinyl chloride	20.0	24.4	122	45 - 140	
o-Xylene	20.0	18.9	94.5	70 - 130	
m-,p-Xylene	40.0	37.6	94.1	70 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	80 - 120	PASS
1,2-Dichloroethane-d4	93.9	80 - 120	PASS
Toluene-d8	97.4	81 - 117	PASS
4-Bromofluorobenzene	93.5	74 - 121	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384788-02
Instrument ID: HPMS9 Run Time: 11:25 Prep Method: 5030B/5030C/503
File ID: 9M90474 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384788 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	15.0	74.9	20 - 160	
Benzene	20.0	18.8	94.0	70 - 130	
Bromobenzene	20.0	20.5	103	72 - 131	
Bromochloromethane	20.0	20.1	101	70 - 130	
Bromodichloromethane	20.0	19.7	98.4	72 - 137	
Bromoform	20.0	22.5	112	49 - 136	
Bromomethane	20.0	20.3	101	37 - 143	
2-Butanone	20.0	14.0	70.2	37 - 180	
n-Butylbenzene	20.0	19.2	96.0	70 - 136	
sec-Butylbenzene	20.0	19.9	99.6	71 - 132	
tert-Butylbenzene	20.0	19.9	99.5	72 - 130	
Carbon disulfide	20.0	17.7	88.5	39 - 139	
Carbon tetrachloride	20.0	24.4	122	59 - 136	
Chlorobenzene	20.0	19.5	97.7	70 - 130	
Chlorodibromomethane	20.0	20.8	104	59 - 136	
Chloroethane	20.0	17.2	85.9	52 - 135	
2-Chloroethyl vinyl ether	20.0	17.2	86.1	35 - 154	
Chloroform	20.0	20.1	101	74 - 129	
Chloromethane	20.0	20.9	104	30 - 131	
2-Chlorotoluene	20.0	20.9	105	63 - 147	
4-Chlorotoluene	20.0	18.4	92.1	70 - 138	
1,2-Dibromo-3-chloropropane	20.0	24.1	120	40 - 135	
1,2-Dibromoethane	20.0	20.3	102	69 - 130	
Dibromomethane	20.0	20.2	101	69 - 130	
1,2-Dichlorobenzene	20.0	19.8	98.8	70 - 130	
1,3-Dichlorobenzene	20.0	19.3	96.3	70 - 130	
1,4-Dichlorobenzene	20.0	19.6	97.8	70 - 130	
Dichlorodifluoromethane	20.0	25.3	127	25 - 130	
1,1-Dichloroethane	20.0	18.9	94.4	75 - 125	
1,2-Dichloroethane	20.0	20.0	99.9	63 - 133	
1,1-Dichloroethene	20.0	18.8	94.1	65 - 135	
cis-1,2-Dichloroethene	20.0	20.6	103	70 - 130	
trans-1,2-Dichloroethene	20.0	18.9	94.6	72 - 127	
1,2-Dichloropropane	20.0	17.3	86.6	72 - 130	
1,3-Dichloropropane	20.0	18.8	94.2	65 - 128	
2,2-Dichloropropane	20.0	22.4	112	66 - 135	
cis-1,3-Dichloropropene	20.0	18.3	91.3	70 - 142	
trans-1,3-Dichloropropene	20.0	19.7	98.4	65 - 139	
1,1-Dichloropropene	20.0	20.4	102	57 - 138	
Ethylbenzene	20.0	19.9	99.3	70 - 130	
n-Hexane	20.0	18.9	94.6	58 - 142	

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384788-02
Instrument ID: HPMS9 Run Time: 11:25 Prep Method: 5030B/5030C/503
File ID: 9M90474 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384788 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
2-Hexanone	20.0	14.9	74.3	45 - 145	
Hexachlorobutadiene	20.0	21.4	107	65 - 135	
Isopropylbenzene	20.0	17.8	89.2	68 - 129	
p-Isopropyltoluene	20.0	19.1	95.5	72 - 128	
4-Methyl-2-pentanone	20.0	17.1	85.4	47 - 146	
Methylene chloride	20.0	18.1	90.3	74 - 128	
Naphthalene	20.0	23.4	117	50 - 146	
n-Propylbenzene	20.0	19.0	95.0	72 - 136	
Styrene	20.0	19.3	96.6	74 - 130	
1,1,1,2-Tetrachloroethane	20.0	22.9	115	71 - 137	
1,1,2,2-Tetrachloroethane	20.0	20.6	103	55 - 130	
Tetrachloroethene	20.0	20.5	102	72 - 130	
Toluene	20.0	19.2	96.0	77 - 126	
1,2,3-Trichlorobenzene	20.0	21.2	106	60 - 135	
1,2,4-Trichlorobenzene	20.0	19.7	98.3	65 - 130	
1,1,1-Trichloroethane	20.0	23.8	119	70 - 135	
1,1,2-Trichloroethane	20.0	19.3	96.3	60 - 125	
Trichloroethene	20.0	19.5	97.7	72 - 126	
Trichlorofluoromethane	20.0	23.0	115	48 - 154	
1,2,3-Trichloropropane	20.0	20.9	105	65 - 130	
1,2,4-Trimethylbenzene	20.0	19.8	98.9	75 - 132	
1,3,5-Trimethylbenzene	20.0	20.1	101	74 - 133	
Vinyl acetate	20.0	17.3	86.4	10 - 150	
Vinyl chloride	20.0	25.5	128	45 - 140	
o-Xylene	20.0	19.2	96.2	70 - 130	
m-,p-Xylene	40.0	38.3	95.8	70 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	80 - 120	PASS
1,2-Dichloroethane-d4	95.6	80 - 120	PASS
Toluene-d8	96.6	81 - 117	PASS
4-Bromofluorobenzene	95.2	74 - 121	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/16/2011 Sample ID: WG384945-02
Instrument ID: HPMS9 Run Time: 11:09 Prep Method: 5030B/5030C/503
File ID: 9M90511 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384945 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
Acetone	20.0	14.2	71.0	20 - 160	
Benzene	20.0	18.4	91.8	70 - 130	
Bromobenzene	20.0	19.8	98.8	72 - 131	
Bromochloromethane	20.0	21.1	106	70 - 130	
Bromodichloromethane	20.0	18.6	93.0	72 - 137	
Bromoform	20.0	21.2	106	49 - 136	
Bromomethane	20.0	21.8	109	37 - 143	
2-Butanone	20.0	12.8	64.0	37 - 180	
n-Butylbenzene	20.0	19.3	96.7	70 - 136	
sec-Butylbenzene	20.0	19.5	97.7	71 - 132	
tert-Butylbenzene	20.0	20.1	101	72 - 130	
Carbon disulfide	20.0	18.3	91.5	39 - 139	
Carbon tetrachloride	20.0	23.4	117	59 - 136	
Chlorobenzene	20.0	19.7	98.3	70 - 130	
Chlorodibromomethane	20.0	19.5	97.3	59 - 136	
Chloroethane	20.0	17.9	89.5	52 - 135	
2-Chloroethyl vinyl ether	20.0	16.5	82.3	35 - 154	
Chloroform	20.0	19.8	99.1	74 - 129	
Chloromethane	20.0	23.2	116	30 - 131	
2-Chlorotoluene	20.0	20.0	100	63 - 147	
4-Chlorotoluene	20.0	18.6	92.9	70 - 138	
1,2-Dibromo-3-chloropropane	20.0	23.9	119	40 - 135	
1,2-Dibromoethane	20.0	19.2	96.1	69 - 130	
Dibromomethane	20.0	20.5	103	69 - 130	
1,2-Dichlorobenzene	20.0	19.7	98.6	70 - 130	
1,3-Dichlorobenzene	20.0	19.4	97.0	70 - 130	
1,4-Dichlorobenzene	20.0	19.5	97.3	70 - 130	
Dichlorodifluoromethane	20.0	27.9	139	25 - 130	*
1,1-Dichloroethane	20.0	17.8	89.0	75 - 125	
1,2-Dichloroethane	20.0	19.7	98.5	63 - 133	
1,1-Dichloroethene	20.0	19.2	96.0	65 - 135	
cis-1,2-Dichloroethene	20.0	20.2	101	70 - 130	
trans-1,2-Dichloroethene	20.0	18.2	90.9	72 - 127	
1,2-Dichloropropane	20.0	16.6	83.0	72 - 130	
1,3-Dichloropropane	20.0	17.7	88.5	65 - 128	
2,2-Dichloropropane	20.0	21.7	109	66 - 135	
cis-1,3-Dichloropropene	20.0	17.2	86.2	70 - 142	
trans-1,3-Dichloropropene	20.0	18.1	90.7	65 - 139	
1,1-Dichloropropene	20.0	19.7	98.4	57 - 138	
Ethylbenzene	20.0	19.9	99.4	70 - 130	
n-Hexane	20.0	18.9	94.4	58 - 142	

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Login Number: L11120224 Run Date: 12/16/2011 Sample ID: WG384945-02
Instrument ID: HPMS9 Run Time: 11:09 Prep Method: 5030B/5030C/503
File ID: 9M90511 Analyst: TMB Method: 8260B
Workgroup (AAB#): WG384945 Matrix: Soil Units: ug/kg
QC Key: STD Lot#: STD49030 Cal ID: HPMS9-10-NOV-11

Analytes	Expected	Found	% Rec	LCS Limits	Q
2-Hexanone	20.0	13.1	65.3	45 - 145	
Hexachlorobutadiene	20.0	21.8	109	65 - 135	
Isopropylbenzene	20.0	18.1	90.3	68 - 129	
p-Isopropyltoluene	20.0	18.8	94.2	72 - 128	
4-Methyl-2-pentanone	20.0	14.7	73.4	47 - 146	
Methylene chloride	20.0	18.4	91.8	74 - 128	
Naphthalene	20.0	23.8	119	50 - 146	
n-Propylbenzene	20.0	18.8	93.9	72 - 136	
Styrene	20.0	19.8	99.1	74 - 130	
1,1,1,2-Tetrachloroethane	20.0	21.3	107	71 - 137	
1,1,2,2-Tetrachloroethane	20.0	19.2	95.9	55 - 130	
Tetrachloroethene	20.0	19.6	98.2	72 - 130	
Toluene	20.0	18.7	93.7	77 - 126	
1,2,3-Trichlorobenzene	20.0	21.9	110	60 - 135	
1,2,4-Trichlorobenzene	20.0	20.4	102	65 - 130	
1,1,1-Trichloroethane	20.0	22.3	112	70 - 135	
1,1,2-Trichloroethane	20.0	17.9	89.5	60 - 125	
Trichloroethene	20.0	19.1	95.3	72 - 126	
Trichlorofluoromethane	20.0	23.9	119	48 - 154	
1,2,3-Trichloropropane	20.0	19.7	98.7	65 - 130	
1,2,4-Trimethylbenzene	20.0	19.7	98.4	75 - 132	
1,3,5-Trimethylbenzene	20.0	20.3	101	74 - 133	
Vinyl acetate	20.0	14.9	74.4	10 - 150	
Vinyl chloride	20.0	28.0	140	45 - 140	
o-Xylene	20.0	19.7	98.7	70 - 130	
m-,p-Xylene	40.0	39.4	98.5	70 - 130	

Surrogates	% Recovery	Surrogate Limits	Qualifier
Dibromofluoromethane	101	80 - 120	PASS
1,2-Dichloroethane-d4	95.8	80 - 120	PASS
Toluene-d8	95.8	81 - 117	PASS
4-Bromofluorobenzene	93.1	74 - 121	PASS

* EXCEEDS %REC LIMIT

LCS - Modified 03/06/2008
PDF File ID: 2250672
Report generated: 12/22/2011 13:20

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120224 **Method:** 8260
Instrument Id: HPMS9 **CAL ID:** HPMS9-10-NOV-11
Workgroup (AAB#): WG384546 **Matrix:** Soil

Sample Number	Dilution	Tag	1	2	3	4
L11120224-03	1.00	02	90.8	96.9	104	102
L11120224-10	1.00	01	92.1	98.4	111	105
L11120224-11	1.00	01	94.9	98.6	115	107
WG384546-01	1.00	01	91.6	99.1	94.7	97.9
WG384546-02	1.00	01	93.9	101	93.5	97.4

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	80	-	120
3 - 4-Bromofluorobenzene	74	-	121
4 - Toluene-d8	81	-	117

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2250677
Report generated: 12/22/2011 13:20

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120224 **Method:** 8260
Instrument Id: HPMS9 **CAL ID:** HPMS9-10-NOV-11
Workgroup (AAB#): WG384788 **Matrix:** Soil

Sample Number	Dilution	Tag	1	2	3	4
L11120224-02	1.00	02	99.9	99.1	102	99.7
L11120224-12	1.00	01	97.0	98.1	103	102
L11120224-13	1.00	01	95.9	98.6	100	99.7
L11120224-14	1.00	01	92.9	97.4	110	110
L11120224-15	1.00	01	97.3	99.2	102	101
WG384788-01	1.00	01	96.1	98.2	96.6	97.5
WG384788-02	1.00	01	95.6	101	95.2	96.6

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	80	-	120
3 - 4-Bromofluorobenzene	74	-	121
4 - Toluene-d8	81	-	117

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2250677
Report generated: 12/22/2011 13:20

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120224
Instrument Id: HPMS9
Workgroup (AAB#): WG384945

Method: 8260
CAL ID: HPMS9-10-NOV-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3	4
L11120224-16	1.00	01	94.5	99.6	95.7	98.8
WG384945-01	1.00	01	92.3	97.3	93.7	97.5
WG384945-02	1.00	01	95.8	101	93.1	95.8

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	80	-	120
3 - 4-Bromofluorobenzene	74	-	121
4 - Toluene-d8	81	-	117

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2250677
Report generated: 12/22/2011 13:20

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120224 **Method:** 8260
Instrument Id: HPMS9 **CAL ID:** HPMS9-10-NOV-11
Workgroup (AAB#): WG384306 **Matrix:** Soil

Sample Number	Dilution	Tag	1	2	3	4
L11120224-01	1.00	01	94.2	100	112	108
L11120224-04	1.00	01	95.7	100	97.3	98.8
L11120224-05	1.00	01	95.5	101	112	105
L11120224-06	1.00	01	95.6	100	101	99.6
L11120224-07	1.00	01	96.1	103	112	105
L11120224-08	1.00	01	96.3	102	102	98.5
L11120224-09	1.00	01	95.4	101	99.5	99.8
L11120224-17	1.00	01	95.9	102	107	103
WG384306-01	1.00	01	90.8	96.7	96.1	99.2
WG384306-02	1.00	01	94.0	98.9	98.0	99.3

Surrogates	Surrogate Limits		
1 - 1,2-Dichloroethane-d4	80	-	120
2 - Dibromofluoromethane	80	-	120
3 - 4-Bromofluorobenzene	74	-	121
4 - Toluene-d8	81	-	117

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2250677
Report generated: 12/22/2011 13:20

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/09/2011 Sample ID: WG384303-02

Instrument ID: HPMS9 Run Time: 14:48 Method: 8260B

File ID: 9M90337 Analyst: TMB QC Key: STD

Workgroup (AAB#): WG384306 Cal ID: HPMS9 - 10-NOV-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	47.5	ug/kg	0.486	5.03	20	
1,1-Dichloroethene	CCC	50.0	44.6	ug/kg	0.444	10.7	20	
1,2-Dichloropropane	CCC	50.0	42.0	ug/kg	0.230	16.1	20	
Ethylbenzene	CCC	50.0	46.4	ug/kg	0.497	7.19	20	
Toluene	CCC	50.0	45.7	ug/kg	1.24	8.56	20	
Vinyl Chloride	CCC	50.0	42.7	ug/kg	0.186	14.6	20	
Bromoform	SPCC	50.0	57.6	ug/kg	0.236	15.2	40	
Chlorobenzene	SPCC	50.0	47.0	ug/kg	0.892	6.04	40	
Chloromethane	SPCC	50.0	34.8	ug/kg	0.213	30.3	40	
1,1-Dichloroethane	SPCC	50.0	43.9	ug/kg	0.490	12.3	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	57.3	ug/kg	0.539	14.7	40	
Acetone		50.0	33.2	ug/kg	0.0655	33.7	40	
Benzene		50.0	42.9	ug/kg	0.908	14.2	40	
Bromobenzene		50.0	49.8	ug/kg	0.713	0.326	40	
Bromochloromethane		50.0	44.4	ug/kg	0.167	11.2	40	
Bromodichloromethane		50.0	46.3	ug/kg	0.334	7.32	40	
Bromomethane		50.0	44.6	ug/kg	0.213	10.9	40	
2-Butanone		50.0	33.1	ug/kg	0.0821	33.9	40	
n-Butylbenzene		50.0	49.2	ug/kg	2.29	1.65	40	
sec-Butylbenzene		50.0	48.9	ug/kg	3.05	2.24	40	
tert-Butylbenzene		50.0	48.4	ug/kg	0.535	3.27	40	
Carbon Disulfide		50.0	44.7	ug/kg	0.795	10.6	40	
Carbon Tetrachloride		50.0	55.9	ug/kg	0.428	11.9	40	
Dibromochloromethane		50.0	54.0	ug/kg	0.325	8.07	40	
Chloroethane		50.0	40.4	ug/kg	0.201	19.1	40	
2-Chloroethyl Vinyl Ether		50.0	45.0	ug/kg	0.135	10.1	40	
2-Chlorotoluene		50.0	47.6	ug/kg	1.87	4.71	40	
4-Chlorotoluene		50.0	50.3	ug/kg	1.92	0.690	40	
1,2-Dibromo-3-Chloropropane		50.0	57.3	ug/kg	0.140	14.6	40	
1,2-Dibromoethane		50.0	50.3	ug/kg	0.262	0.539	40	
Dibromomethane		50.0	45.8	ug/kg	0.163	8.36	40	
1,2-Dichlorobenzene		50.0	49.3	ug/kg	1.32	1.43	40	
1,3-Dichlorobenzene		50.0	49.8	ug/kg	1.42	0.393	40	
1,4-Dichlorobenzene		50.0	49.6	ug/kg	1.42	0.709	40	
Dichlorodifluoromethane		50.0	37.5	ug/kg	0.312	24.9	40	
1,2-Dichloroethane		50.0	45.0	ug/kg	0.380	9.93	40	
cis-1,2-Dichloroethene		50.0	46.9	ug/kg	0.268	6.25	40	
trans-1,2-Dichloroethene		50.0	45.3	ug/kg	0.401	9.39	40	
1,3-Dichloropropane		50.0	47.2	ug/kg	0.420	5.65	40	
2,2-Dichloropropane		50.0	53.1	ug/kg	0.455	6.18	40	
cis-1,3-Dichloropropene		50.0	44.5	ug/kg	0.377	11.0	40	
trans-1,3-Dichloropropene		50.0	55.3	ug/kg	0.460	10.7	40	

CCV - Modified 03/05/2008

PDF File ID: 2250674

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Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/09/2011 Sample ID: WG384303-02

Instrument ID: HPMS9 Run Time: 14:48 Method: 8260B

File ID: 9M90337 Analyst: TMB QC Key: STD

Workgroup (AAB#): WG384306 Cal ID: HPMS9 - 10-NOV-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	48.2	ug/kg	0.353	3.66	40	
n-Hexane		50.0	46.2	ug/kg	0.366	7.58	40	
2-Hexanone		50.0	37.2	ug/kg	0.156	25.5	40	
Hexachlorobutadiene		50.0	48.8	ug/kg	0.558	2.39	40	
Isopropylbenzene		50.0	47.1	ug/kg	1.60	5.78	40	
p-Isopropyltoluene		50.0	50.5	ug/kg	2.59	0.907	40	
4-Methyl-2-Pentanone		50.0	39.9	ug/kg	0.0809	20.2	40	
Methylene Chloride		50.0	41.4	ug/kg	0.241	17.2	40	
Naphthalene		50.0	55.5	ug/kg	2.10	10.9	40	
n-Propylbenzene		50.0	48.7	ug/kg	3.16	2.59	40	
Styrene		50.0	47.4	ug/kg	0.998	5.28	40	
1,1,1,2-Tetrachloroethane		50.0	54.7	ug/kg	0.337	9.36	40	
Tetrachloroethene		50.0	49.6	ug/kg	0.295	0.712	40	
1,2,3-Trichlorobenzene		50.0	50.8	ug/kg	0.895	1.52	40	
1,2,4-Trichlorobenzene		50.0	51.2	ug/kg	0.998	2.46	40	
1,1,1-Trichloroethane		50.0	53.4	ug/kg	0.458	6.80	40	
1,1,2-Trichloroethane		50.0	48.9	ug/kg	0.244	2.29	40	
Trichloroethene		50.0	46.2	ug/kg	0.282	7.61	40	
Trichlorofluoromethane		50.0	48.0	ug/kg	0.521	3.92	40	
1,2,3-Trichloropropane		50.0	54.8	ug/kg	0.189	9.56	40	
1,2,4-Trimethylbenzene		50.0	49.3	ug/kg	2.43	1.31	40	
1,3,5-Trimethylbenzene		50.0	49.3	ug/kg	2.33	1.30	40	
Vinyl Acetate		50.0	35.3	ug/kg	0.276	29.3	40	
o-Xylene		50.0	45.2	ug/kg	0.599	9.61	40	
m-,p-Xylene		100	90.2	ug/kg	0.619	9.76	40	
1,2-Dichloroethene		100	92.2	ug/kg	0.334	7.82	40	
Xylenes		150	135	ug/kg	0.609	9.71	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2250674
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384544-02
Instrument ID: HPMS9 Run Time: 13:31 Method: 8260B
File ID: 9M90408 Analyst: TMB QC Key: STD
Workgroup (AAB#): WG384546 Cal ID: HPMS9 - 10-NOV-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	52.9	ug/kg	0.542	5.88	20	
1,1-Dichloroethene	CCC	50.0	50.4	ug/kg	0.501	0.775	20	
1,2-Dichloropropane	CCC	50.0	44.2	ug/kg	0.242	11.7	20	
Ethylbenzene	CCC	50.0	49.6	ug/kg	0.531	0.726	20	
Toluene	CCC	50.0	46.1	ug/kg	1.24	7.90	20	
Vinyl Chloride	CCC	50.0	59.1	ug/kg	0.257	18.2	20	
Bromoform	SPCC	50.0	64.2	ug/kg	0.265	28.5	40	
Chlorobenzene	SPCC	50.0	49.2	ug/kg	0.934	1.64	40	
Chloromethane	SPCC	50.0	51.0	ug/kg	0.313	2.08	40	
1,1-Dichloroethane	SPCC	50.0	46.7	ug/kg	0.521	6.63	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	55.9	ug/kg	0.526	11.9	40	
Acetone		50.0	44.4	ug/kg	0.0857	11.2	40	
Benzene		50.0	45.6	ug/kg	0.964	8.89	40	
Bromobenzene		50.0	49.8	ug/kg	0.713	0.343	40	
Bromochloromethane		50.0	52.8	ug/kg	0.199	5.63	40	
Bromodichloromethane		50.0	51.6	ug/kg	0.373	3.20	40	
Bromomethane		50.0	52.1	ug/kg	0.249	4.23	40	
2-Butanone		50.0	43.0	ug/kg	0.107	14.1	40	
n-Butylbenzene		50.0	49.1	ug/kg	2.29	1.76	40	
sec-Butylbenzene		50.0	48.6	ug/kg	3.03	2.71	40	
tert-Butylbenzene		50.0	49.1	ug/kg	0.543	1.77	40	
Carbon Disulfide		50.0	42.4	ug/kg	0.754	15.2	40	
Carbon Tetrachloride		50.0	60.9	ug/kg	0.467	21.8	40	
Dibromochloromethane		50.0	56.1	ug/kg	0.338	12.2	40	
Chloroethane		50.0	45.0	ug/kg	0.223	10.0	40	
2-Chloroethyl Vinyl Ether		50.0	48.4	ug/kg	0.145	3.29	40	
2-Chlorotoluene		50.0	50.5	ug/kg	1.98	1.04	40	
4-Chlorotoluene		50.0	47.0	ug/kg	1.79	6.01	40	
1,2-Dibromo-3-Chloropropane		50.0	68.3	ug/kg	0.169	36.5	40	
1,2-Dibromoethane		50.0	54.0	ug/kg	0.281	7.96	40	
Dibromomethane		50.0	55.6	ug/kg	0.197	11.2	40	
1,2-Dichlorobenzene		50.0	50.7	ug/kg	1.36	1.45	40	
1,3-Dichlorobenzene		50.0	50.7	ug/kg	1.44	1.39	40	
1,4-Dichlorobenzene		50.0	50.3	ug/kg	1.44	0.525	40	
Dichlorodifluoromethane		50.0	57.7	ug/kg	0.480	15.3	40	
1,2-Dichloroethane		50.0	52.4	ug/kg	0.442	4.79	40	
cis-1,2-Dichloroethene		50.0	49.8	ug/kg	0.284	0.356	40	
trans-1,2-Dichloroethene		50.0	47.8	ug/kg	0.423	4.46	40	
1,3-Dichloropropane		50.0	47.4	ug/kg	0.422	5.26	40	
2,2-Dichloropropane		50.0	57.2	ug/kg	0.490	14.4	40	
cis-1,3-Dichloropropene		50.0	47.4	ug/kg	0.402	5.19	40	
trans-1,3-Dichloropropene		50.0	56.6	ug/kg	0.471	13.3	40	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384544-02
Instrument ID: HPMS9 Run Time: 13:31 Method: 8260B
File ID: 9M90408 Analyst: TMB QC Key: STD
Workgroup (AAB#): WG384546 Cal ID: HPMS9 - 10-NOV-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	51.1	ug/kg	0.374	2.25	40	
n-Hexane		50.0	40.5	ug/kg	0.321	19.0	40	
2-Hexanone		50.0	44.5	ug/kg	0.186	11.1	40	
Hexachlorobutadiene		50.0	54.1	ug/kg	0.619	8.28	40	
Isopropylbenzene		50.0	50.6	ug/kg	1.72	1.17	40	
p-Isopropyltoluene		50.0	50.3	ug/kg	2.58	0.602	40	
4-Methyl-2-Pentanone		50.0	48.8	ug/kg	0.0990	2.44	40	
Methylene Chloride		50.0	46.5	ug/kg	0.272	6.92	40	
Naphthalene		50.0	60.9	ug/kg	2.31	21.9	40	
n-Propylbenzene		50.0	47.7	ug/kg	3.09	4.55	40	
Styrene		50.0	52.9	ug/kg	1.12	5.88	40	
1,1,1,2-Tetrachloroethane		50.0	56.1	ug/kg	0.346	12.3	40	
Tetrachloroethene		50.0	53.4	ug/kg	0.317	6.82	40	
1,2,3-Trichlorobenzene		50.0	55.1	ug/kg	0.971	10.1	40	
1,2,4-Trichlorobenzene		50.0	53.9	ug/kg	1.05	7.82	40	
1,1,1-Trichloroethane		50.0	59.9	ug/kg	0.514	19.8	40	
1,1,2-Trichloroethane		50.0	49.9	ug/kg	0.250	0.148	40	
Trichloroethene		50.0	49.4	ug/kg	0.302	1.11	40	
Trichlorofluoromethane		50.0	57.0	ug/kg	0.618	14.0	40	
1,2,3-Trichloropropane		50.0	57.7	ug/kg	0.199	15.3	40	
1,2,4-Trimethylbenzene		50.0	50.4	ug/kg	2.48	0.748	40	
1,3,5-Trimethylbenzene		50.0	49.4	ug/kg	2.33	1.18	40	
Vinyl Acetate		50.0	31.9	ug/kg	0.249	36.2	40	
o-Xylene		50.0	48.1	ug/kg	0.637	3.77	40	
m-,p-Xylene		100	95.4	ug/kg	0.655	4.60	40	
1,2-Dichloroethene		100	97.6	ug/kg	0.353	2.41	40	
Xylenes		150	144	ug/kg	0.646	4.32	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384787-02
Instrument ID: HPMS9 Run Time: 09:47 Method: 8260B
File ID: 9M90471 Analyst: TMB QC Key: STD
Workgroup (AAB#): WG384788 Cal ID: HPMS9 - 10-NOV-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	52.4	ug/kg	0.537	4.85	20	
1,1-Dichloroethene	CCC	50.0	49.3	ug/kg	0.490	1.46	20	
1,2-Dichloropropane	CCC	50.0	44.3	ug/kg	0.242	11.4	20	
Ethylbenzene	CCC	50.0	50.2	ug/kg	0.537	0.340	20	
Toluene	CCC	50.0	47.9	ug/kg	1.30	4.12	20	
Vinyl Chloride	CCC	50.0	53.2	ug/kg	0.231	6.37	20	
Bromoform	SPCC	50.0	65.0	ug/kg	0.268	30.0	40	
Chlorobenzene	SPCC	50.0	50.5	ug/kg	0.958	0.911	40	
Chloromethane	SPCC	50.0	44.2	ug/kg	0.271	11.6	40	
1,1-Dichloroethane	SPCC	50.0	48.9	ug/kg	0.546	2.22	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	60.9	ug/kg	0.572	21.8	40	
Acetone		50.0	36.1	ug/kg	0.0707	27.9	40	
Benzene		50.0	44.9	ug/kg	0.951	10.1	40	
Bromobenzene		50.0	53.9	ug/kg	0.770	7.70	40	
Bromochloromethane		50.0	51.0	ug/kg	0.192	2.04	40	
Bromodichloromethane		50.0	51.1	ug/kg	0.369	2.17	40	
Bromomethane		50.0	47.1	ug/kg	0.225	5.88	40	
2-Butanone		50.0	37.8	ug/kg	0.0938	24.5	40	
n-Butylbenzene		50.0	52.7	ug/kg	2.46	5.49	40	
sec-Butylbenzene		50.0	52.4	ug/kg	3.27	4.86	40	
tert-Butylbenzene		50.0	52.5	ug/kg	0.581	5.09	40	
Carbon Disulfide		50.0	46.5	ug/kg	0.827	6.96	40	
Carbon Tetrachloride		50.0	61.9	ug/kg	0.474	23.7	40	
Dibromochloromethane		50.0	56.5	ug/kg	0.340	12.9	40	
Chloroethane		50.0	41.1	ug/kg	0.204	17.9	40	
2-Chloroethyl Vinyl Ether		50.0	41.8	ug/kg	0.125	16.5	40	
2-Chlorotoluene		50.0	51.3	ug/kg	2.01	2.57	40	
4-Chlorotoluene		50.0	53.8	ug/kg	2.05	7.54	40	
1,2-Dibromo-3-Chloropropane		50.0	69.1	ug/kg	0.171	38.2	40	
1,2-Dibromoethane		50.0	52.5	ug/kg	0.273	5.03	40	
Dibromomethane		50.0	53.8	ug/kg	0.191	7.67	40	
1,2-Dichlorobenzene		50.0	54.3	ug/kg	1.46	8.67	40	
1,3-Dichlorobenzene		50.0	54.2	ug/kg	1.54	8.45	40	
1,4-Dichlorobenzene		50.0	54.0	ug/kg	1.55	8.02	40	
Dichlorodifluoromethane		50.0	43.0	ug/kg	0.358	13.9	40	
1,2-Dichloroethane		50.0	50.7	ug/kg	0.428	1.41	40	
cis-1,2-Dichloroethene		50.0	51.0	ug/kg	0.291	1.98	40	
trans-1,2-Dichloroethene		50.0	49.0	ug/kg	0.434	1.96	40	
1,3-Dichloropropane		50.0	47.8	ug/kg	0.425	4.45	40	
2,2-Dichloropropane		50.0	58.3	ug/kg	0.499	16.6	40	
cis-1,3-Dichloropropene		50.0	47.3	ug/kg	0.401	5.44	40	
trans-1,3-Dichloropropene		50.0	57.7	ug/kg	0.480	15.4	40	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384787-02
Instrument ID: HPMS9 Run Time: 09:47 Method: 8260B
File ID: 9M90471 Analyst: TMB QC Key: STD
Workgroup (AAB#): WG384788 Cal ID: HPMS9 - 10-NOV-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	52.0	ug/kg	0.381	4.08	40	
n-Hexane		50.0	45.1	ug/kg	0.357	9.79	40	
2-Hexanone		50.0	39.4	ug/kg	0.165	21.2	40	
Hexachlorobutadiene		50.0	56.5	ug/kg	0.646	13.0	40	
Isopropylbenzene		50.0	52.4	ug/kg	1.78	4.78	40	
p-Isopropyltoluene		50.0	54.5	ug/kg	2.80	8.94	40	
4-Methyl-2-Pentanone		50.0	43.6	ug/kg	0.0885	12.7	40	
Methylene Chloride		50.0	44.4	ug/kg	0.259	11.1	40	
Naphthalene		50.0	61.5	ug/kg	2.33	22.9	40	
n-Propylbenzene		50.0	51.3	ug/kg	3.32	2.58	40	
Styrene		50.0	52.4	ug/kg	1.10	4.70	40	
1,1,1,2-Tetrachloroethane		50.0	58.4	ug/kg	0.361	16.9	40	
Tetrachloroethene		50.0	53.8	ug/kg	0.319	7.51	40	
1,2,3-Trichlorobenzene		50.0	55.7	ug/kg	0.982	11.5	40	
1,2,4-Trichlorobenzene		50.0	56.6	ug/kg	1.10	13.3	40	
1,1,1-Trichloroethane		50.0	59.9	ug/kg	0.514	19.8	40	
1,1,2-Trichloroethane		50.0	50.7	ug/kg	0.253	1.39	40	
Trichloroethene		50.0	49.1	ug/kg	0.300	1.71	40	
Trichlorofluoromethane		50.0	53.7	ug/kg	0.582	7.47	40	
1,2,3-Trichloropropane		50.0	59.3	ug/kg	0.205	18.5	40	
1,2,4-Trimethylbenzene		50.0	52.6	ug/kg	2.59	5.23	40	
1,3,5-Trimethylbenzene		50.0	53.1	ug/kg	2.51	6.28	40	
Vinyl Acetate		50.0	43.3	ug/kg	0.338	13.4	40	
o-Xylene		50.0	49.9	ug/kg	0.661	0.263	40	
m-,p-Xylene		100	98.9	ug/kg	0.679	1.11	40	
1,2-Dichloroethene		100	100	ug/kg	0.362	0.00940	40	
Xylenes		150	149	ug/kg	0.670	0.830	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/16/2011 Sample ID: WG384944-02

Instrument ID: HPMS9 Run Time: 09:08 Method: 8260B

File ID: 9M90507 Analyst: TMB QC Key: STD

Workgroup (AAB#): WG384945 Cal ID: HPMS9 - 10-NOV-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Chloroform	CCC	50.0	54.2	ug/kg	0.554	8.35	20	
1,1-Dichloroethene	CCC	50.0	54.2	ug/kg	0.538	8.33	20	
1,2-Dichloropropane	CCC	50.0	45.7	ug/kg	0.250	8.54	20	
Ethylbenzene	CCC	50.0	52.0	ug/kg	0.556	3.96	20	
Toluene	CCC	50.0	49.6	ug/kg	1.34	0.899	20	
Vinyl Chloride	CCC	50.0	59.7	ug/kg	0.260	19.5	20	
Bromoform	SPCC	50.0	61.3	ug/kg	0.252	22.7	40	
Chlorobenzene	SPCC	50.0	51.6	ug/kg	0.981	3.26	40	
Chloromethane	SPCC	50.0	48.8	ug/kg	0.299	2.33	40	
1,1-Dichloroethane	SPCC	50.0	49.6	ug/kg	0.554	0.850	40	
1,1,2,2-Tetrachloroethane	SPCC	50.0	54.8	ug/kg	0.515	9.54	40	
Acetone		50.0	37.6	ug/kg	0.0735	24.8	40	
Benzene		50.0	47.0	ug/kg	0.994	6.00	40	
Bromobenzene		50.0	53.6	ug/kg	0.767	7.25	40	
Bromochloromethane		50.0	53.6	ug/kg	0.202	7.26	40	
Bromodichloromethane		50.0	50.8	ug/kg	0.367	1.61	40	
Bromomethane		50.0	52.2	ug/kg	0.250	4.47	40	
2-Butanone		50.0	35.8	ug/kg	0.0890	28.4	40	
n-Butylbenzene		50.0	52.3	ug/kg	2.44	4.66	40	
sec-Butylbenzene		50.0	51.9	ug/kg	3.23	3.72	40	
tert-Butylbenzene		50.0	52.0	ug/kg	0.575	3.91	40	
Carbon Disulfide		50.0	49.7	ug/kg	0.884	0.530	40	
Carbon Tetrachloride		50.0	62.0	ug/kg	0.475	24.0	40	
Dibromochloromethane		50.0	55.4	ug/kg	0.334	10.7	40	
Chloroethane		50.0	46.5	ug/kg	0.231	6.93	40	
2-Chloroethyl Vinyl Ether		50.0	43.8	ug/kg	0.132	12.4	40	
2-Chlorotoluene		50.0	55.1	ug/kg	2.16	10.1	40	
4-Chlorotoluene		50.0	49.1	ug/kg	1.88	1.73	40	
1,2-Dibromo-3-Chloropropane		50.0	57.9	ug/kg	0.142	15.9	40	
1,2-Dibromoethane		50.0	51.4	ug/kg	0.268	2.75	40	
Dibromomethane		50.0	52.5	ug/kg	0.186	4.97	40	
1,2-Dichlorobenzene		50.0	52.0	ug/kg	1.40	3.94	40	
1,3-Dichlorobenzene		50.0	53.2	ug/kg	1.52	6.49	40	
1,4-Dichlorobenzene		50.0	52.9	ug/kg	1.51	5.73	40	
Dichlorodifluoromethane		50.0	48.6	ug/kg	0.405	2.82	40	
1,2-Dichloroethane		50.0	51.9	ug/kg	0.438	3.87	40	
cis-1,2-Dichloroethene		50.0	51.4	ug/kg	0.293	2.79	40	
trans-1,2-Dichloroethene		50.0	50.9	ug/kg	0.450	1.70	40	
1,3-Dichloropropane		50.0	48.4	ug/kg	0.430	3.27	40	
2,2-Dichloropropane		50.0	59.2	ug/kg	0.507	18.5	40	
cis-1,3-Dichloropropene		50.0	47.1	ug/kg	0.399	5.77	40	
trans-1,3-Dichloropropene		50.0	57.7	ug/kg	0.480	15.3	40	

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Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/16/2011 Sample ID: WG384944-02
Instrument ID: HPMS9 Run Time: 09:08 Method: 8260B
File ID: 9M90507 Analyst: TMB QC Key: STD
Workgroup (AAB#): WG384945 Cal ID: HPMS9 - 10-NOV-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	53.4	ug/kg	0.391	6.74	40	
n-Hexane		50.0	46.5	ug/kg	0.368	7.08	40	
2-Hexanone		50.0	36.0	ug/kg	0.151	27.9	40	
Hexachlorobutadiene		50.0	55.7	ug/kg	0.636	11.3	40	
Isopropylbenzene		50.0	52.9	ug/kg	1.80	5.71	40	
p-Isopropyltoluene		50.0	54.1	ug/kg	2.78	8.12	40	
4-Methyl-2-Pentanone		50.0	39.1	ug/kg	0.0794	21.7	40	
Methylene Chloride		50.0	49.1	ug/kg	0.287	1.71	40	
Naphthalene		50.0	56.3	ug/kg	2.13	12.5	40	
n-Propylbenzene		50.0	51.4	ug/kg	3.33	2.74	40	
Styrene		50.0	52.4	ug/kg	1.10	4.79	40	
1,1,1,2-Tetrachloroethane		50.0	58.2	ug/kg	0.359	16.4	40	
Tetrachloroethene		50.0	56.4	ug/kg	0.335	12.8	40	
1,2,3-Trichlorobenzene		50.0	53.6	ug/kg	0.944	7.16	40	
1,2,4-Trichlorobenzene		50.0	54.6	ug/kg	1.06	9.30	40	
1,1,1-Trichloroethane		50.0	61.0	ug/kg	0.523	22.1	40	
1,1,2-Trichloroethane		50.0	49.9	ug/kg	0.250	0.127	40	
Trichloroethene		50.0	50.6	ug/kg	0.309	1.20	40	
Trichlorofluoromethane		50.0	57.8	ug/kg	0.626	15.6	40	
1,2,3-Trichloropropane		50.0	54.1	ug/kg	0.187	8.12	40	
1,2,4-Trimethylbenzene		50.0	52.6	ug/kg	2.59	5.21	40	
1,3,5-Trimethylbenzene		50.0	53.1	ug/kg	2.51	6.13	40	
Vinyl Acetate		50.0	41.2	ug/kg	0.322	17.6	40	
o-Xylene		50.0	50.5	ug/kg	0.669	1.01	40	
m-,p-Xylene		100	100	ug/kg	0.688	0.300	40	
1,2-Dichloroethene		100	102	ug/kg	0.372	2.25	40	
Xylenes		150	151	ug/kg	0.679	0.536	40	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

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Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120224 Run Date: 11/10/2011 Sample ID: WG381388-11
Instrument ID: HPMS9 Run Time: 17:09 Method: 8260B
File ID: 9M89652 Analyst: TMB QC Key: STD
ICal Workgroup: WG381388 Cal ID: HPMS9 - 10-NOV-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Chloroform	CCC	50.0	49.4	ug/kg	0.506	1.20	30	
1,1-Dichloroethene	CCC	50.0	51.1	ug/kg	0.507	2.10	30	
1,2-Dichloropropane	CCC	50.0	52.3	ug/kg	0.286	4.60	30	
Ethylbenzene	CCC	50.0	50.4	ug/kg	0.539	0.700	30	
Toluene	CCC	50.0	49.0	ug/kg	1.32	2.00	30	
Vinyl Chloride	CCC	50.0	56.2	ug/kg	0.245	12.5	30	
Bromoform	SPCC	50.0	41.4	ug/kg	0.165	17.1	30	
Chlorobenzene	SPCC	50.0	50.1	ug/kg	0.952	0.200	30	
Chloromethane	SPCC	50.0	53.2	ug/kg	0.326	6.50	30	
1,1-Dichloroethane	SPCC	50.0	49.8	ug/kg	0.556	0.400	30	
1,1,2,2-Tetrachloroethane	SPCC	50.0	55.3	ug/kg	0.519	10.6	30	
Acetone		50.0	50.1	ug/kg	0.0960	0.100	30	
Benzene		50.0	50.2	ug/kg	1.06	0.400	30	
Bromobenzene		50.0	50.5	ug/kg	0.723	1.10	30	
Bromochloromethane		50.0	52.7	ug/kg	0.198	5.30	30	
Bromodichloromethane		50.0	44.6	ug/kg	0.322	10.8	30	
Bromomethane		50.0	54.2	ug/kg	0.260	8.40	30	
2-Butanone		50.0	47.5	ug/kg	0.118	5.00	30	
n-Butylbenzene		50.0	49.8	ug/kg	2.32	0.400	30	
sec-Butylbenzene		50.0	51.5	ug/kg	3.21	2.90	30	
tert-Butylbenzene		50.0	51.3	ug/kg	0.567	2.50	30	
Carbon Disulfide		50.0	48.3	ug/kg	0.859	3.40	30	
Carbon Tetrachloride		50.0	46.4	ug/kg	0.353	7.30	30	
Dibromochloromethane		50.0	43.8	ug/kg	0.262	12.4	30	
Chloroethane		50.0	54.8	ug/kg	0.272	9.50	30	
2-Chloroethyl Vinyl Ether		50.0	48.7	ug/kg	0.146	2.50	30	
2-Chlorotoluene		50.0	49.4	ug/kg	1.94	1.20	30	
4-Chlorotoluene		50.0	50.3	ug/kg	1.92	0.700	30	
1,2-Dibromo-3-Chloropropane		50.0	46.7	ug/kg	0.113	6.70	30	
1,2-Dibromoethane		50.0	53.1	ug/kg	0.277	6.20	30	
Dibromomethane		50.0	51.5	ug/kg	0.183	2.90	30	
1,2-Dichlorobenzene		50.0	48.9	ug/kg	1.31	2.10	30	
1,3-Dichlorobenzene		50.0	48.2	ug/kg	1.37	3.60	30	
1,4-Dichlorobenzene		50.0	48.2	ug/kg	1.38	3.60	30	
Dichlorodifluoromethane		50.0	65.9	ug/kg	0.549	31.8	30	*
1,2-Dichloroethane		50.0	51.2	ug/kg	0.432	2.40	30	
cis-1,2-Dichloroethene		50.0	53.5	ug/kg	0.305	7.00	30	
trans-1,2-Dichloroethene		50.0	51.3	ug/kg	0.454	2.50	30	
1,3-Dichloropropane		50.0	51.9	ug/kg	0.462	3.70	30	
2,2-Dichloropropane		50.0	50.3	ug/kg	0.431	0.700	30	
cis-1,3-Dichloropropene		50.0	46.3	ug/kg	0.393	7.40	30	
trans-1,3-Dichloropropene		50.0	49.1	ug/kg	0.408	1.80	30	

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2250673
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120224 Run Date: 11/10/2011 Sample ID: WG381388-11
Instrument ID: HPMS9 Run Time: 17:09 Method: 8260B
File ID: 9M89652 Analyst: TMB QC Key: STD
ICal Workgroup: WG381388 Cal ID: HPMS9 - 10-NOV-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
1,1-Dichloropropene		50.0	52.4	ug/kg	0.384	4.90	30	
n-Hexane		50.0	53.6	ug/kg	0.424	7.10	30	
2-Hexanone		50.0	48.7	ug/kg	0.204	2.50	30	
Hexachlorobutadiene		50.0	50.0	ug/kg	0.571	0.100	30	
Isopropylbenzene		50.0	45.3	ug/kg	1.54	9.50	30	
p-Isopropyltoluene		50.0	47.8	ug/kg	2.45	4.40	30	
4-Methyl-2-Pentanone		50.0	49.7	ug/kg	0.101	0.600	30	
Methylene Chloride		50.0	49.4	ug/kg	0.288	1.20	30	
Naphthalene		50.0	49.9	ug/kg	1.89	0.200	30	
n-Propylbenzene		50.0	49.8	ug/kg	3.23	0.400	30	
Styrene		50.0	53.6	ug/kg	1.13	7.30	30	
1,1,1,2-Tetrachloroethane		50.0	47.9	ug/kg	0.294	4.30	30	
Tetrachloroethene		50.0	48.9	ug/kg	0.290	2.20	30	
1,2,3-Trichlorobenzene		50.0	49.3	ug/kg	0.869	1.40	30	
1,2,4-Trichlorobenzene		50.0	46.4	ug/kg	0.905	7.10	30	
1,1,1-Trichloroethane		50.0	52.7	ug/kg	0.452	5.30	30	
1,1,2-Trichloroethane		50.0	50.3	ug/kg	0.251	0.600	30	
Trichloroethene		50.0	50.0	ug/kg	0.305	0	30	
Trichlorofluoromethane		50.0	54.9	ug/kg	0.595	9.90	30	
1,2,3-Trichloropropane		50.0	52.6	ug/kg	0.182	5.20	30	
1,2,4-Trimethylbenzene		50.0	50.0	ug/kg	2.46	0.100	30	
1,3,5-Trimethylbenzene		50.0	52.0	ug/kg	2.46	4.00	30	
Vinyl Acetate		50.0	49.5	ug/kg	0.386	1.00	40	
o-Xylene		50.0	51.7	ug/kg	0.686	3.50	30	
m-,p-Xylene		100	99.3	ug/kg	0.681	0.700	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2250673
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384306

CCV Number: WG384303-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384303-02	NA	NA	243270	419051	538656
Upper Limit	NA	NA	486540	838102	1077312
Lower Limit	NA	NA	121635	209526	269328
L11120224-01	1.00	01	129308	273107	376971
L11120224-04	1.00	01	181862	305840	377311
L11120224-05	1.00	01	127661	267274	356257
L11120224-06	1.00	01	167282	301300	377010
L11120224-07	1.00	01	118561	256357	341931
L11120224-08	1.00	01	163053	294202	361553
L11120224-09	1.00	01	168932	293402	365213
L11120224-17	1.00	01	135786	270073	347148
WG384306-01	1.00	01	239094	397127	494429
WG384306-02	1.00	01	225774	375422	469043

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2264322
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384546

CCV Number: WG384544-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384544-02	NA	NA	304254	476652	561868
Upper Limit	NA	NA	608508	953304	1123736
Lower Limit	NA	NA	152127	238326	280934
L11120224-03	1.00	02	249386	471012	587171
L11120224-10	1.00	01	210352	426388	551068
L11120224-11	1.00	01	188041	420697	565035
WG384377-02	1.00	01	230670	452735	572225
WG384377-03	1.00	01	287036	488463	579137
WG384546-01	1.00	01	297348	485624	577997
WG384546-02	1.00	01	292298	471514	569340

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2264322
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384788

CCV Number: WG384787-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384787-02	NA	NA	355567	576482	700872
Upper Limit	NA	NA	711134	1152964	1401744
Lower Limit	NA	NA	177784	288241	350436
L11120224-02	1.00	02	306745	563539	714390
L11120224-12	1.00	01	251684	475331	630455
L11120224-13	1.00	01	308984	553969	701154
L11120224-14	1.00	01	195790	423171	630344
L11120224-15	1.00	01	298834	541811	693133
WG384775-02	1.00	01	338756	579446	718940
WG384775-03	1.00	01	351542	584608	727237
WG384788-01	1.00	01	359705	596898	726105
WG384788-02	1.00	01	356124	574258	690824

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2264322
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384945

CCV Number: WG384944-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384944-02	NA	NA	360365	587237	716193
Upper Limit	NA	NA	720730	1174474	1432386
Lower Limit	NA	NA	180183	293619	358097
L11120224-16	1.00	01	314275	507231	607984
WG384945-01	1.00	01	356268	563648	672150
WG384945-02	1.00	01	338162	515363	589903

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2264322
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384306

CCV Number: WG384303-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384303-02	NA	NA	17.43	14.41	10.53
Upper Limit	NA	NA	17.93	14.91	11.03
Lower Limit	NA	NA	16.93	13.91	10.03
L11120224-01	1.00	01	17.43	14.41	10.53
L11120224-04	1.00	01	17.43	14.41	10.54
L11120224-05	1.00	01	17.43	14.41	10.54
L11120224-06	1.00	01	17.43	14.41	10.54
L11120224-07	1.00	01	17.43	14.41	10.53
L11120224-08	1.00	01	17.43	14.41	10.53
L11120224-09	1.00	01	17.43	14.41	10.53
L11120224-17	1.00	01	17.43	14.41	10.54
WG384306-01	1.00	01	17.43	14.41	10.54
WG384306-02	1.00	01	17.43	14.42	10.54

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2264329
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384546

CCV Number: WG384544-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384544-02	NA	NA	17.43	14.41	10.54
Upper Limit	NA	NA	17.93	14.91	11.04
Lower Limit	NA	NA	16.93	13.91	10.04
L11120224-03	1.00	02	17.43	14.41	10.53
L11120224-10	1.00	01	17.43	14.41	10.54
L11120224-11	1.00	01	17.43	14.41	10.54
WG384377-02	1.00	01	17.43	14.41	10.53
WG384377-03	1.00	01	17.43	14.41	10.53
WG384546-01	1.00	01	17.43	14.41	10.54
WG384546-02	1.00	01	17.43	14.41	10.54

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2264329
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384788

CCV Number: WG384787-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384787-02	NA	NA	17.43	14.41	10.53
Upper Limit	NA	NA	17.93	14.91	11.03
Lower Limit	NA	NA	16.93	13.91	10.03
L11120224-02	1.00	02	17.43	14.41	10.53
L11120224-12	1.00	01	17.43	14.41	10.54
L11120224-13	1.00	01	17.43	14.41	10.54
L11120224-14	1.00	01	17.43	14.41	10.54
L11120224-15	1.00	01	17.43	14.41	10.53
WG384775-02	1.00	01	17.43	14.41	10.54
WG384775-03	1.00	01	17.43	14.41	10.53
WG384788-01	1.00	01	17.43	14.41	10.54
WG384788-02	1.00	01	17.43	14.42	10.54

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2264329
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS9
Workgroup (AAB#): WG384945

CCV Number: WG384944-02
CAL ID: HPMS9-10-NOV-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3
WG384944-02	NA	NA	17.43	14.42	10.54
Upper Limit	NA	NA	17.93	14.92	11.04
Lower Limit	NA	NA	16.93	13.92	10.04
L11120224-16	1.00	01	17.42	14.41	10.54
WG384945-01	1.00	01	17.42	14.41	10.54
WG384945-02	1.00	01	17.43	14.41	10.53

IS-1 - 1,4-Dichlorobenzene-d4
IS-2 - Chlorobenzene-d5
IS-3 - Fluorobenzene

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2264329
Report generated 12/22/2011 13:20

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120224
Work Group: WG384313
Blank File ID: 7M53673
Blank Sample ID: WG384181-01
Prep Date: 12/08/11 15:10
Instrument ID: HPMS7
Analyzed Date: 12/12/11 09:51
Method: 8270C
Analyst: CAA

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384181-02	7M53674	12/12/11 10:17	01
LCS2	WG384181-03	7M53675	12/12/11 10:44	01
BORING 13 2-4	L11120224-02	7M53694	12/12/11 19:15	01
BORING 14 2-4	L11120224-04	7M53695	12/12/11 19:42	01
BORING 14 0-2	L11120224-03	7M53696	12/12/11 20:09	01
BORING 13 0-2	L11120224-01	7M53697	12/12/11 20:36	DL01
BORING 13 0-2	L11120224-01	7M53704	12/13/11 10:27	DL02
BORING 15 2-4	L11120224-06	7M53705	12/13/11 10:54	01
BORING 18 2-4	L11120224-12	7M53706	12/13/11 11:21	01
BORING 16 2-4	L11120224-08	7M53707	12/13/11 11:48	01
BORING 17 2-4	L11120224-10	7M53708	12/13/11 12:15	01
DUPLICATE 2	L11120224-17	7M53709	12/13/11 12:42	01
BORING 19 2-4	L11120224-14	7M53710	12/13/11 13:09	01
BORING 18 0-2	L11120224-11	7M53712	12/13/11 14:04	01
BORING 20 2-4	L11120224-16	7M53713	12/13/11 14:31	01
BORING 16 0-2	L11120224-07	7M53714	12/13/11 14:58	01
BORING 17 0-2	L11120224-09	7M53715	12/13/11 15:25	DL01
BORING 19 0-2	L11120224-13	7M53716	12/13/11 15:52	DL01
BORING 15 0-2	L11120224-05	7M53717	12/13/11 16:19	DL01
BORING 20 0-2	L11120224-15	7M53718	12/13/11 16:46	DL01
BORING 17 0-2	L11120224-09	7M53721	12/14/11 09:41	DL02
BORING 19 0-2	L11120224-13	7M53722	12/14/11 10:07	DL02
BORING 15 0-2	L11120224-05	7M53723	12/14/11 10:34	DL02
BORING 20 0-2	L11120224-15	7M53724	12/14/11 11:01	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 2255506
Report generated 12/15/2011 13:10

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11120224 Prep Date: 12/08/11 15:10 Sample ID: WG384181-01
Instrument ID: HPMS7 Run Date: 12/12/11 09:51 Prep Method: 3545
File ID: 7M53673 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG384313 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS7-09-DEC-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Naphthalene	1.25	2.50	1.25	1	U
Acenaphthylene	1.25	2.50	1.25	1	U
Acenaphthene	1.25	2.50	1.25	1	U
Fluorene	1.25	2.50	1.25	1	U
Phenanthrene	1.25	2.50	1.25	1	U
Anthracene	1.25	2.50	1.25	1	U
Fluoranthene	1.25	2.50	1.25	1	U
Pyrene	1.25	2.50	1.25	1	U
Benzo(a)anthracene	1.25	2.50	1.25	1	U
Chrysene	1.25	2.50	1.25	1	U
Benzo(b)fluoranthene	1.25	2.50	1.25	1	U
Benzo(k)fluoranthene	1.25	2.50	1.25	1	U
Benzo(a)pyrene	1.25	2.50	1.25	1	U
Indeno(1,2,3-cd)pyrene	1.25	2.50	1.25	1	U
Dibenzo(a,h)anthracene	1.25	2.50	1.25	1	U
Benzo(g,h,i)perylene	1.25	2.50	1.25	1	U
1-Methylnaphthalene	1.25	2.50	1.25	1	U
2-Methylnaphthalene	1.25	2.50	1.25	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
Nitrobenzene-d5	71.4	23 - 120	PASS
2-Fluorobiphenyl	65.8	30 - 115	PASS
p-Terphenyl-d14	84.9	18 - 137	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2251787
15-DEC-2011 13:10

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11120224 Analyst: CAA Prep Method: 3545
Instrument ID: HPMS7 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG384313 Units: ug/kg
QC Key: STD Lot #: STD48047

Sample ID: WG384181-02 LCS File ID: 7M53674 Run Date: 12/12/2011 10:17
Sample ID: WG384181-03 LCS2 File ID: 7M53675 Run Date: 12/12/2011 10:44

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Naphthalene	50.0	32.5	64.9	50.0	29.5	59.1	9.47	34 - 91	40	
Acenaphthylene	50.0	30.9	61.7	50.0	30.5	61.0	1.26	32 - 94	40	
Acenaphthene	50.0	31.4	62.9	50.0	30.6	61.1	2.83	30 - 97	40	
Fluorene	50.0	31.5	63.1	50.0	31.3	62.5	0.889	31 - 96	40	
Phenanthrene	50.0	32.9	65.8	50.0	33.5	67.0	1.86	36 - 104	40	
Anthracene	50.0	33.7	67.3	50.0	34.4	68.8	2.12	36 - 117	40	
Fluoranthene	50.0	43.1	86.1	50.0	42.6	85.1	1.16	54 - 125	40	
Pyrene	50.0	44.8	89.6	50.0	44.3	88.6	1.14	54 - 119	40	
Benzo(a)anthracene	50.0	46.2	92.5	50.0	46.0	92.1	0.413	60 - 128	40	
Chrysene	50.0	46.5	93.1	50.0	46.2	92.4	0.686	60 - 127	40	
Benzo(b)fluoranthene	50.0	48.5	97.0	50.0	46.1	92.2	5.09	55 - 132	40	
Benzo(k)fluoranthene	50.0	47.4	94.8	50.0	45.0	90.0	5.11	51 - 128	40	
Benzo(a)pyrene	50.0	47.7	95.4	50.0	47.6	95.1	0.256	59 - 134	40	
Indeno(1,2,3-cd)pyrene	50.0	47.0	94.0	50.0	46.4	92.9	1.17	58 - 134	40	
Dibenzo(a,h)anthracene	50.0	45.4	90.8	50.0	44.8	89.7	1.20	58 - 137	40	
Benzo(g,h,i)perylene	50.0	47.6	95.1	50.0	47.0	94.0	1.17	57 - 132	40	
1-Methylnaphthalene	50.0	29.4	58.9	50.0	28.5	57.1	3.17	28 - 94	40	
2-Methylnaphthalene	50.0	33.0	66.0	50.0	31.4	62.8	4.96	29 - 98	40	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Nitrobenzene-d5	73.5	65.9	23 - 120	PASS
2-Fluorobiphenyl	80.7	62.0	30 - 115	PASS
p-Terphenyl-d14	83.8	75.7	18 - 137	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2251788
Report generated: 12/15/2011 13:10

Login Number: L11120224
Instrument Id: HPMS7
Workgroup (AAB#): WG384313

Method: 8270L
CAL ID: HPMS7-09-DEC-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3
L11120224-01	2.00	DL01	53.1	54.3	78.7
L11120224-01	20.0	DL02	DL	DL	DL
L11120224-02	1.00	01	57.0	61.4	67.2
L11120224-03	1.00	01	47.8	60.9	57.5
L11120224-04	1.00	01	58.9	70.6	66.9
L11120224-05	10.0	DL01	95.7	69.6	103
L11120224-05	100	DL02	DL	DL	DL
L11120224-06	1.00	01	51.2	65.6	57.9
L11120224-07	1.00	01	55.0	63.0	67.0
L11120224-08	1.00	01	59.1	70.3	56.5
L11120224-09	2.00	DL01	55.5	59.0	64.7
L11120224-09	20.0	DL02	DL	DL	DL
L11120224-10	1.00	01	48.5	60.0	53.2
L11120224-11	1.00	01	56.7	63.9	69.4
L11120224-12	1.00	01	73.5	77.6	64.2
L11120224-13	5.00	DL01	57.4	50.9	127
L11120224-13	50.0	DL02	DL	DL	DL
L11120224-14	1.00	01	45.6	53.7	61.7
L11120224-15	20.0	DL01	DL	DL	DL
L11120224-15	200	DL02	DL	DL	DL
L11120224-16	1.00	01	54.2	64.5	67.5
L11120224-17	1.00	01	51.6	61.4	72.5
WG384181-01	1.00	01	65.8	71.4	84.9
WG384181-02	1.00	01	80.7	73.5	83.8
WG384181-03	1.00	01	62.0	65.9	75.7

Surrogates	Surrogate Limits		
1 - 2-Fluorobiphenyl	30	-	115
2 - Nitrobenzene-d5	23	-	120
3 - p-Terphenyl-d14	18	-	137

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2251789
Report generated: 12/15/2011 13:11

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/12/2011 Sample ID: WG384360-02

Instrument ID: HPMS7 Run Time: 09:23 Method: 8270C

File ID: 7M53672 Analyst: CAA QC Key: STD

Workgroup (AAB#): WG384313 Cal ID: HPMS7 - 09-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1040	ug/L	1.23	4.45	20	
Fluoranthene	CCC	1000	1040	ug/L	1.14	4.15	20	
Benzo[a]pyrene	CCC	1000	1060	ug/L	1.05	6.11	20	
Naphthalene		1000	1030	ug/L	0.943	3.12	20	
Acenaphthylene		1000	1040	ug/L	1.80	3.79	20	
Fluorene		1000	1040	ug/L	1.25	4.46	20	
Phenanthrene		1000	1020	ug/L	0.886	1.66	20	
Anthracene		1000	1060	ug/L	0.957	6.34	20	
Pyrene		1000	1040	ug/L	1.10	4.18	20	
Benzo[a]anthracene		1000	1030	ug/L	0.977	3.47	20	
Chrysene		1000	1050	ug/L	1.07	4.55	20	
Benzo[b]fluoranthene		1000	1080	ug/L	1.08	7.82	20	
Benzo[k]fluoranthene		1000	1000	ug/L	1.05	0.400	20	
Indeno[1,2,3-cd]pyrene		1000	1040	ug/L	1.19	4.03	20	
Dibenz[ah]anthracene		1000	1040	ug/L	1.03	3.94	20	
Benzo[ghi]perylene		1000	1040	ug/L	1.02	3.81	20	
1-Methylnaphthalene		1000	1030	ug/L	0.624	3.30	20	
2-Methylnaphthalene		1000	1040	ug/L	0.599	3.85	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2255510
Report generated 12/15/2011 15:04

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384502-02

Instrument ID: HPMS7 Run Time: 08:12 Method: 8270C

File ID: 7M53699 Analyst: CAA QC Key: STD

Workgroup (AAB#): WG384313 Cal ID: HPMS7 - 09-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1040	ug/L	1.22	3.52	20	
Fluoranthene	CCC	1000	1040	ug/L	1.13	3.57	20	
Benzo[a]pyrene	CCC	1000	1060	ug/L	1.05	5.70	20	
Naphthalene		1000	1020	ug/L	0.930	1.72	20	
Acenaphthylene		1000	1050	ug/L	1.82	5.05	20	
Fluorene		1000	1060	ug/L	1.27	6.16	20	
Phenanthrene		1000	1030	ug/L	0.902	3.43	20	
Anthracene		1000	1060	ug/L	0.950	5.61	20	
Pyrene		1000	1040	ug/L	1.09	3.59	20	
Benzo[a]anthracene		1000	1070	ug/L	1.01	6.50	20	
Chrysene		1000	1020	ug/L	1.05	1.89	20	
Benzo[b]fluoranthene		1000	1050	ug/L	1.05	5.08	20	
Benzo[k]fluoranthene		1000	1000	ug/L	1.05	0.390	20	
Indeno[1,2,3-cd]pyrene		1000	1030	ug/L	1.18	3.47	20	
Dibenz[ah]anthracene		1000	1040	ug/L	1.03	3.77	20	
Benzo[ghi]perylene		1000	1020	ug/L	1.00	2.31	20	
1-Methylnaphthalene		1000	1030	ug/L	0.626	3.49	20	
2-Methylnaphthalene		1000	1040	ug/L	0.597	3.54	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2255510
Report generated 12/15/2011 15:04

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/14/2011 Sample ID: WG384649-02

Instrument ID: HPMS7 Run Time: 09:13 Method: 8270C

File ID: 7M53720 Analyst: CAA QC Key: STD

Workgroup (AAB#): WG384313 Cal ID: HPMS7 - 09-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1040	ug/L	1.22	4.14	20	
Fluoranthene	CCC	1000	1030	ug/L	1.12	2.80	20	
Benzo[a]pyrene	CCC	1000	1060	ug/L	1.05	5.85	20	
Naphthalene		1000	1020	ug/L	0.930	1.75	20	
Acenaphthylene		1000	1050	ug/L	1.83	5.49	20	
Fluorene		1000	1070	ug/L	1.28	6.72	20	
Phenanthrene		1000	1020	ug/L	0.887	1.71	20	
Anthracene		1000	1070	ug/L	0.963	7.03	20	
Pyrene		1000	1030	ug/L	1.09	3.26	20	
Benzo[a]anthracene		1000	1060	ug/L	1.01	6.47	20	
Chrysene		1000	1030	ug/L	1.06	2.83	20	
Benzo[b]fluoranthene		1000	1010	ug/L	1.00	0.550	20	
Benzo[k]fluoranthene		1000	1060	ug/L	1.11	5.69	20	
Indeno[1,2,3-cd]pyrene		1000	1040	ug/L	1.19	4.05	20	
Dibenz[ah]anthracene		1000	1050	ug/L	1.03	4.65	20	
Benzo[ghi]perylene		1000	1030	ug/L	1.01	3.04	20	
1-Methylnaphthalene		1000	1030	ug/L	0.622	2.92	20	
2-Methylnaphthalene		1000	1030	ug/L	0.595	3.13	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2255510
Report generated 12/15/2011 15:04

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120224 Run Date: 12/09/2011 Sample ID: WG384209-09
Instrument ID: HPMS7 Run Time: 11:41 Method: 8270C
File ID: 7M53653 Analyst: CAA QC Key: STD
ICal Workgroup: WG384209 Cal ID: HPMS7 - 09-DEC-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1120	ug/L	1.32	12.2	30	
Fluoranthene	CCC	1000	1090	ug/L	1.19	9.10	30	
Benzo[a]pyrene	CCC	1000	1120	ug/L	1.11	12.0	30	
Naphthalene		1000	1110	ug/L	1.01	10.8	30	
Acenaphthylene		1000	1120	ug/L	1.93	11.6	30	
Fluorene		1000	1110	ug/L	1.32	10.8	30	
Phenanthrene		1000	1120	ug/L	0.972	11.5	30	
Anthracene		1000	1110	ug/L	1.00	11.3	30	
Pyrene		1000	1150	ug/L	1.20	14.5	30	
Benzo[a]anthracene		1000	1030	ug/L	0.970	2.70	30	
Chrysene		1000	1110	ug/L	1.14	11.3	30	
Benzo[b]fluoranthene		1000	1040	ug/L	1.04	4.10	30	
Benzo[k]fluoranthene		1000	1100	ug/L	1.15	9.80	30	
Indeno[1,2,3-cd]pyrene		1000	1080	ug/L	1.23	7.60	30	
Dibenz[ah]anthracene		1000	1040	ug/L	1.02	3.50	30	
Benzo[ghi]perylene		1000	1080	ug/L	1.05	7.60	30	
1-Methylnaphthalene		1000	1070	ug/L	0.646	6.90	30	
2-Methylnaphthalene		1000	1150	ug/L	0.664	15.1	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2255508
Report generated 12/15/2011 13:10

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224 CCV Number: WG384360-02
Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11
Workgroup (AAB#): WG384313 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384360-02	NA	NA	59028	118525	112355	110914	110327
Upper Limit	NA	NA	118056	237050	224710	221828	220654
Lower Limit	NA	NA	29514	59263	56178	55457	55164
L11120224-01	2.00	DL01	69488	136665	127085	141276	130981
L11120224-02	1.00	01	71197	145311	128494	136507	135160
L11120224-03	1.00	01	68464	144485	126103	139247	131893
L11120224-04	1.00	01	66735	137908	122205	128241	127003
WG384181-01	1.00	01	53049	107556	99135	100112	99257
WG384181-02	1.00	01	56642	115733	108813	110007	107868
WG384181-03	1.00	01	54891	112305	105357	105662	104497

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2255511
Report generated 12/15/2011 13:10

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224
Instrument ID: HPMS7
Workgroup (AAB#): WG384313

CCV Number: WG384502-02
CAL ID: HPMS7-09-DEC-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384502-02	NA	NA	67995	137977	131028	130295	129253
Upper Limit	NA	NA	135990	275954	262056	260590	258506
Lower Limit	NA	NA	33998	68989	65514	65148	64627
L11120224-01	20.0	DL02	69759	142880	126406	135883	133489
L11120224-05	10.0	DL01	69727	140952	128482	145542	134369
L11120224-06	1.00	01	66437	134149	121739	127583	125162
L11120224-07	1.00	01	73645	147494	132214	151899	140411
L11120224-08	1.00	01	69909	142110	130720	134645	132910
L11120224-09	2.00	DL01	67851	138888	126628	139953	133585
L11120224-10	1.00	01	77680	158801	142127	151404	146997
L11120224-11	1.00	01	67727	142362	125705	139035	130256
L11120224-12	1.00	01	68913	140754	128864	133706	130009
L11120224-13	5.00	DL01	75101	145811	126854	153723	131437
L11120224-14	1.00	01	74809	152967	134840	145049	140492
L11120224-15	20.0	DL01	60343	118421	110964	127234	116340
L11120224-16	1.00	01	81325	163749	140053	157724	150592
L11120224-17	1.00	01	65019	132277	120135	125899	122405

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2255511
Report generated 12/15/2011 13:10

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120224 CCV Number: WG384687-02

Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11

Workgroup (AAB#): WG384313 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384687-02	NA	NA	66166	133661	129354	123650	127895
Upper Limit	NA	NA	132332	267322	258708	247300	255790
Lower Limit	NA	NA	33083	66831	64677	61825	63948
L11120224-05	100	DL02	63118	129048	116706	122603	122450
L11120224-09	20.0	DL02	57673	117787	106253	111692	109339
L11120224-13	50.0	DL02	63717	133503	115984	126974	123354
L11120224-15	200	DL02	63745	129732	117092	125418	123903

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2255511
Report generated 12/15/2011 13:10

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224 CCV Number: WG384360-02
Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11
Workgroup (AAB#): WG384313 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384360-02	NA	NA	8.04	13.24	5.86	15.34	9.89
Upper Limit	NA	NA	8.54	13.74	6.36	15.84	10.39
Lower Limit	NA	NA	7.54	12.74	5.36	14.84	9.39
L11120224-01	2.00	DL01	8.04	13.25	5.86	15.34	9.88
L11120224-02	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-03	1.00	01	8.03	13.25	5.86	15.33	9.89
L11120224-04	1.00	01	8.04	13.25	5.86	15.33	9.89
WG384181-01	1.00	01	8.04	13.25	5.86	15.34	9.89
WG384181-02	1.00	01	8.03	13.25	5.86	15.33	9.89
WG384181-03	1.00	01	8.04	13.24	5.86	15.33	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2255512
Report generated 12/15/2011 13:11

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224 CCV Number: WG384502-02
Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11
Workgroup (AAB#): WG384313 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384502-02	NA	NA	8.03	13.25	5.86	15.33	9.89
Upper Limit	NA	NA	8.53	13.75	6.36	15.83	10.39
Lower Limit	NA	NA	7.53	12.75	5.36	14.83	9.39
L11120224-01	20.0	DL02	8.04	13.25	5.86	15.33	9.89
L11120224-05	10.0	DL01	8.04	13.24	5.86	15.33	9.89
L11120224-06	1.00	01	8.04	13.25	5.86	15.33	9.88
L11120224-07	1.00	01	8.04	13.24	5.86	15.33	9.89
L11120224-08	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-09	2.00	DL01	8.04	13.24	5.86	15.33	9.89
L11120224-10	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-11	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-12	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-13	5.00	DL01	8.04	13.25	5.86	15.34	9.89
L11120224-14	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-15	20.0	DL01	8.04	13.25	5.86	15.33	9.89
L11120224-16	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120224-17	1.00	01	8.04	13.25	5.86	15.33	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2255512
Report generated 12/15/2011 13:11

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120224 CCV Number: WG384687-02

Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11

Workgroup (AAB#): WG384313 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384687-02	NA	NA	8.03	13.24	5.86	15.33	9.88
Upper Limit	NA	NA	8.53	13.74	6.36	15.83	10.38
Lower Limit	NA	NA	7.53	12.74	5.36	14.83	9.38
L11120224-05	100	DL02	8.03	13.24	5.86	15.33	9.89
L11120224-09	20.0	DL02	8.04	13.24	5.86	15.33	9.89
L11120224-13	50.0	DL02	8.03	13.24	5.86	15.33	9.89
L11120224-15	200	DL02	8.03	13.24	5.86	15.32	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2255512
Report generated 12/15/2011 13:11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 120911
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 39997 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384107, WG384202
Internal STD: STD48775 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53644	WG384209-01 5ppm DFTPP	1	1	STD47562	12/09/11 07:48
2	7M53645	WG384209-02 1ppm PAHL STD	1	1	STD46618	12/09/11 08:05
3	7M53646	WG384209-02 1ppm PAHL STD	1	1	STD46618	12/09/11 08:33
4	7M53647	WG384209-03 10ppm PAHL STD	1	1	STD46618	12/09/11 09:00
5	7M53648	WG384209-04 5ppm PAHL STD	1	1	STD46618	12/09/11 09:27
6	7M53649	WG384209-05 2.5ppm PAHL STD	1	1	STD46618	12/09/11 09:53
7	7M53650	WG384209-06 0.5ppm PAHL STD	1	1	STD46618	12/09/11 10:20
8	7M53651	WG384209-07 0.1ppm PAHL STD	1	1	STD46618	12/09/11 10:47
9	7M53652	WG384209-08 0.05ppm PAHL STD	1	1	STD46618	12/09/11 11:14
10	7M53653	WG384209-09 1ppm PAHL Alt Src STD	1	1	STD46408	12/09/11 11:41
11	7M53654	WG384079-01 BLK 12/08	7	1	SOIL	12/09/11 12:09
12	7M53655	WG384079-02 LCS 12/08	7	1	SOIL	12/09/11 12:35
13	7M53656	WG384079-03 LCS DUP 12/08	7	1	SOIL	12/09/11 13:02
14	7M53657	L11120197-03 20X	7	20	SOIL	12/09/11 13:29
15	7M53658	L11120197-06 50X	7	50	SOIL	12/09/11 13:56
16	7M53659	L11120197-05 200X	7	200	SOIL	12/09/11 14:23
17	7M53660	L11120197-02 200X	7	200	SOIL	12/09/11 14:50
18	7M53661	L11120197-04 200X	7	200	SOIL	12/09/11 15:17
19	7M53662	L11120198-01	7	1	SOIL	12/09/11 15:44
20	7M53663	L11120198-02	7	1	SOIL	12/09/11 16:10
21	7M53664	L11120198-08	7	1	SOIL	12/09/11 16:38
22	7M53665	L11120198-09	7	1	SOIL	12/09/11 17:05
23	7M53666	L11120198-06	7	1	SOIL	12/09/11 17:31
24	7M53667	L11120198-04 5X	7	5	SOIL	12/09/11 17:58
25	7M53668	L11120198-05 5X	7	5	SOIL	12/09/11 18:25
26	7M53669	L11120198-03 5X	7	5	SOIL	12/09/11 18:52
27	7M53670	L11120198-07 5X	7	5	SOIL	12/09/11 19:19

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG384209-02 1ppm PAHL STD - SS NBZ fails high.			
3				
	WG384209-02 1ppm PAHL STD - SS NBZ fails high, run ICAL.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 120911
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 39997 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384107, WG384202
Internal STD: STD48775 Surrogate STD: NA
CCV STD: LCS STD:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
16	X	2000	Over Calibration Range	#12, 14
	L11120197-05 200X			
17	X	2000	Over Calibration Range	#12, 14, 16
	L11120197-02 200X			
18	X	2000	Over Calibration Range	#12, 14, 16
	L11120197-04 200X			
23	X	10	Over Calibration Range	#12, 14, 16
	L11120198-06			
24	X	50	Over Calibration Range	#12, 13, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120198-04 5X			
25	X	50	Over Calibration Range	#12, 14, 16, 18 , 19, 21, 22, 23
	L11120198-05 5X			
26	X	50	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120198-03 5X			
27	X	50	Over Calibration Range	#14
	L11120198-07 5X			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121211
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40012 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384202, WG384107, WG384313
Internal STD: COA14927 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments: Samples were analyzed at a dilution due to extract appearance and viscosity.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53671	WG384360-01 5ppm DFTPP	1	1	STD47562	12/12/11 09:06
2	7M53672	WG384360-02 1ppm PAHL STD	1	1	STD46618	12/12/11 09:23
3	7M53673	WG384181-01 BLK 12/08	7	1	SOIL	12/12/11 09:51
4	7M53674	WG384181-02 LCS 12/08	7	1	SOIL	12/12/11 10:17
5	7M53675	WG384181-03 LCS DUP 12/08	7	1	SOIL	12/12/11 10:44
6	7M53676	L11120198-12	7	1	SOIL	12/12/11 11:11
7	7M53677	L11120198-14	7	1	SOIL	12/12/11 11:38
8	7M53678	L11120198-10	7	1	SOIL	12/12/11 12:05
9	7M53679	L11120198-18	7	1	SOIL	12/12/11 12:32
10	7M53680	L11120198-19	7	1	SOIL	12/12/11 12:59
11	7M53681	L11120198-16	7	1	SOIL	12/12/11 13:25
12	7M53682	L11120198-13	7	1	SOIL	12/12/11 13:52
13	7M53683	L11120198-17	7	1	SOIL	12/12/11 14:19
14	7M53684	L11120198-11 5X	7	5	SOIL	12/12/11 14:45
15	7M53685	L11120198-15 5X	7	5	SOIL	12/12/11 15:13
16	7M53686	L11120197-05 2000X	7	2000	SOIL	12/12/11 15:40
17	7M53687	L11120197-02 2000X	7	2000	SOIL	12/12/11 16:07
18	7M53688	L11120197-04 2000X	7	2000	SOIL	12/12/11 16:33
19	7M53689	L11120198-06 10X	7	10	SOIL	12/12/11 17:00
20	7M53690	L11120198-04 50X	7	50	SOIL	12/12/11 17:27
21	7M53691	L11120198-05 50X	7	50	SOIL	12/12/11 17:54
22	7M53692	L11120198-03 50X	7	50	SOIL	12/12/11 18:21
23	7M53693	L11120198-07 50X	7	50	SOIL	12/12/11 18:49
24	7M53694	L11120224-02	7	1	SOIL	12/12/11 19:15
25	7M53695	L11120224-04	7	1	SOIL	12/12/11 19:42
26	7M53696	L11120224-03	7	1	SOIL	12/12/11 20:09
27	7M53697	L11120224-01 2X	7	2	SOIL	12/12/11 20:36

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X	10	Over Calibration Range	#14
	L11120198-19			
12	X	10	Over Calibration Range	#12, 14, 16
	L11120198-13			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121211
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40012 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384202, WG384107, WG384313
Internal STD: COA14927 Surrogate STD: NA
CCV STD: LCS STD:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13	X	10	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120198-17			
14	X	50	Over Calibration Range	#12, 14, 16, 18, 19
	L11120198-11 5X			
27	X	20	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120224-01 2X			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121311
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40032 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384313, WG384202
Internal STD: STD48775 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments: Samples were analyzed at a dilution due to extract appearance and viscosity.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53698	WG384502-01 5ppm DFTPP	1	1	STD47562	12/13/11 07:55
2	7M53699	WG384502-02 1ppm PAHL STD	1	1	STD46618	12/13/11 08:12
3	7M53700	L11120198-19 10X	7	10	SOIL	12/13/11 08:39
4	7M53701	L11120198-13 10X	7	10	SOIL	12/13/11 09:06
5	7M53702	L11120198-17 10X	7	10	SOIL	12/13/11 09:32
6	7M53703	L11120198-11 50X	7	50	SOIL	12/13/11 10:00
7	7M53704	L11120224-01 20X	7	20	SOIL	12/13/11 10:27
8	7M53705	L11120224-06	7	1	SOIL	12/13/11 10:54
9	7M53706	L11120224-12	7	1	SOIL	12/13/11 11:21
10	7M53707	L11120224-08	7	1	SOIL	12/13/11 11:48
11	7M53708	L11120224-10	7	1	SOIL	12/13/11 12:15
12	7M53709	L11120224-17	7	1	SOIL	12/13/11 12:42
13	7M53710	L11120224-14	7	1	SOIL	12/13/11 13:09
14	7M53711	L11120226-01	7	1	SOIL	12/13/11 13:37
15	7M53712	L11120224-11	7	1	SOIL	12/13/11 14:04
16	7M53713	L11120224-16	7	1	SOIL	12/13/11 14:31
17	7M53714	L11120224-07	7	1	SOIL	12/13/11 14:58
18	7M53715	L11120224-09 2X	7	2	SOIL	12/13/11 15:25
19	7M53716	L11120224-13 5X	7	5	SOIL	12/13/11 15:52
20	7M53717	L11120224-05 10X	7	10	SOIL	12/13/11 16:19
21	7M53718	L11120224-15 20X	7	20	SOIL	12/13/11 16:46

Comments

Seq.	Rerun	Dil.	Reason	Analytes
18	X	20	Over Calibration Range	#14, 16
	L11120224-09 2X			
19	X	50	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120224-13 5X			
20	X	100	Over Calibration Range	#12, 14, 16, 18, 19, 21, 23
	L11120224-05 10X			
21	X	200	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120224-15 20X			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121411
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10
Method: 8270L SOP: OVAP MSS03 Rev: 0

Maintenance Log ID: 40051 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384313, WG384686
Internal STD: STD48775 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments: Samples were analyzed at a dilution due to extract appearance and viscosity.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53719	WG384649-01 5ppm DFTPP	1	1	STD47562	12/14/11 08:57
2	7M53720	WG384649-02 1ppm PAHL STD	1	1	STD46618	12/14/11 09:13
3	7M53721	L11120224-09 20X	7	20	SOIL	12/14/11 09:41
4	7M53722	L11120224-13 50X	7	50	SOIL	12/14/11 10:07
5	7M53723	L11120224-05 100X	7	100	SOIL	12/14/11 10:34
6	7M53724	L11120224-15 200X	7	200	SOIL	12/14/11 11:01
7	7M53725	WG384687-01 5ppm DFTPP	1	1	STD47562	12/14/11 12:40
8	7M53726	WG384687-02 1ppm PAHL STD	1	1	STD46618	12/14/11 12:57
9	7M53727	WG384574-01 BLK 12/13	7	1	SOIL	12/14/11 13:34
10	7M53728	WG384574-02 LCS 12/13	7	1	SOIL	12/14/11 14:01
11	7M53729	WG384574-03 LCS DUP 12/13	7	1	SOIL	12/14/11 14:28
12	7M53730	L11120062-06 RE	7	1	SOIL	12/14/11 14:55
13	7M53731	L11120062-02 RE	7	1	SOIL	12/14/11 15:23
14	7M53732	L11120032-06 RE	7	1	SOIL	12/14/11 15:50
15	7M53733	L11120361-07	7	1	SOIL	12/14/11 16:17
16	7M53734	L11120062-01 RE	7	1	SOIL	12/14/11 16:44
17	7M53735	L11120361-02 2X	7	2	SOIL	12/14/11 17:10
18	7M53736	L11120361-04 2X	7	2	SOIL	12/14/11 17:37
19	7M53737	L11120361-06 2X	7	2	SOIL	12/14/11 18:05
20	7M53738	L11120361-03 5X	7	5	SOIL	12/14/11 18:32
21	7M53739	L11120361-05 5X	7	5	SOIL	12/14/11 18:59
22	7M53740	L11120062-05 5X RE	7	5	SOIL	12/14/11 19:26
23	7M53741	L11120032-05 20X RE	7	20	SOIL	12/14/11 19:53
24	7M53742	L11120032-07 10X RE	7	10	SOIL	12/14/11 20:20
25	7M53743	L11120361-01 20X	7	20	SOIL	12/14/11 20:47
26	7M53744	L11120032-05 200X RE	7	200	SOIL	12/14/11 21:14

Comments

Seq.	Rerun	Dil.	Reason	Analytes
24				
	L11120032-07 10X RE - SS NBZ high - SMI.			
26				
	L11120032-05 200X RE - Dilution not required, not reported.			

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Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG384181
Analyst: RAH
Spike Analyst: RAH
Method: 3545
Run Date: 12/08/2011 15:10
SOP: ASE01 Revison 8
Spike Witness: CPD
Surr Solution: STD47368

Methylene Chloride Lot #: COA15754
Purified Lab Sand Lot #: COA15341
Diatomaceous Earth Lot #: COA15755
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15761

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11120224-01	SAMP			827-PAHL	17.32 g	.25 mL			1 mL	Opaque
2	L11120224-02	SAMP			827-PAHL	19.3 g	.25 mL			1 mL	Colored
3	L11120224-03	SAMP			827-PAHL	18.58 g	.25 mL			1 mL	Colored
4	L11120224-04	SAMP			827-PAHL	18.49 g	.25 mL			1 mL	Colored
5	L11120224-05	SAMP			827-PAHL	22.01 g	.25 mL			1 mL	Opaque
6	L11120224-06	SAMP			827-PAHL	17.58 g	.25 mL			1 mL	Colored
7	L11120224-07	SAMP			827-PAHL	19.15 g	.25 mL			1 mL	Colored
8	L11120224-08	SAMP			827-PAHL	17.7 g	.25 mL			1 mL	Colored
9	L11120224-09	SAMP			827-PAHL	19.06 g	.25 mL			1 mL	Opaque
10	L11120224-10	SAMP			827-PAHL	18.11 g	.25 mL			1 mL	Colored
11	L11120224-11	SAMP			827-PAHL	17.93 g	.25 mL			1 mL	Colored
12	L11120224-12	SAMP			827-PAHL	18.6 g	.25 mL			1 mL	Colored
13	L11120224-13	SAMP			827-PAHL	21.5 g	.25 mL			1 mL	Opaque
14	L11120224-14	SAMP			827-PAHL	17.68 g	.25 mL			1 mL	Colored
15	L11120224-15	SAMP			827-PAHL	17.14 g	.25 mL			1 mL	Opaque
16	L11120224-16	SAMP			827-PAHL	18.99 g	.25 mL			1 mL	Colored
17	L11120224-17	SAMP			827-PAHL	17.08 g	.25 mL			1 mL	Colored
18	L11120226-01	SAMP			827-PAHL	17.73 g	.25 mL			1 mL	Colored
19	WG384181-01	BLANK			827-PAHL	20 g	.25 mL			1 mL	Transparent
20	WG384181-02	LCS			827-PAHL	20 g	.25 mL	1 mL	STD48047	1 mL	Transparent
21	WG384181-03	LCS2			827-PAHL	20 g	.25 mL	1 mL	STD48047	1 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 2249439
Report generated: 12/09/2011 14:34

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120224
Blank File ID: 14G36074.R
Prep Date: 12/08/11 15:11
Analyzed Date: 12/10/11 01:24
Analyst: HAV

Work Group: WG384320
Blank Sample ID: WG384182-01
Instrument ID: HP14
Method: 8015C

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384182-02	14G36075.R	12/10/11 02:11	01
LCS2	WG384182-03	14G36076.R	12/10/11 02:58	01
BORING 13 2-4	L11120224-02	14G36077.R	12/10/11 03:46	01
BORING 14 0-2	L11120224-03	14G36078.R	12/10/11 04:33	01
BORING 15 2-4	L11120224-06	14G36080.R	12/10/11 06:07	01
BORING 16 0-2	L11120224-07	14G36081.R	12/10/11 06:55	01
BORING 17 2-4	L11120224-10	14G36083.R	12/10/11 08:29	01
BORING 17 0-2	L11120224-09	14G36086.R	12/10/11 10:51	01
BORING 18 0-2	L11120224-11	14G36087.R	12/10/11 11:38	01
BORING 19 2-4	L11120224-14	14G36089.R	12/10/11 13:12	01
BORING 20 0-2	L11120224-15	14G36090.R	12/10/11 13:59	01
BORING 20 2-4	L11120224-16	14G36091.R	12/10/11 14:46	01
DUPLICATE 2	L11120224-17	14G36092.R	12/10/11 15:34	01
BORING 14 2-4	L11120224-04	14G36112.R	12/13/11 18:37	01
BORING 16 2-4	L11120224-08	14G36113.R	12/13/11 19:24	01
BORING 18 2-4	L11120224-12	14G36114.R	12/13/11 20:11	01
BORING 13 0-2	L11120224-01	14G36115.R	12/13/11 20:58	DL01
BORING 19 0-2	L11120224-13	14G36116.R	12/13/11 21:46	DL01
BORING 15 0-2	L11120224-05	14G36170.R	12/15/11 16:13	DL01

Report Name: BLANK_SUMMARY
PDF File ID: 2252442
Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11120224 Prep Date: 12/08/11 15:11 Sample ID: WG384182-01
Instrument ID: HP14 Run Date: 12/10/11 01:24 Prep Method: 3545
File ID: 14G36074.R Analyst: HAV Method: 8015C
Workgroup (AAB#): WG384320 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP14-20-SEP-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Carbon Range-C10-C20	2000	10000	2000	1	U
Carbon Range-C20-C34	2000	10000	2000	1	U

Surrogates	% Recovery	Surrogate Limits	Qualifier
o-Terphenyl	87.5	43 - 136	PASS
Octacosane	98.2	25 - 162	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2252443
16-DEC-2011 16:05

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11120224 Analyst: HAV Prep Method: 3545
Instrument ID: HP14 Matrix: Soil Method: 8015C
Workgroup (AAB#): WG384320 Units: ug/kg
QC Key: STD Lot #: STD46344

Sample ID: WG384182-02 LCS File ID: 14G36075.R Run Date: 12/10/2011 02:11
Sample ID: WG384182-03 LCS2 File ID: 14G36076.R Run Date: 12/10/2011 02:58

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diesel Range (C10-C28)	250000	181000	72.3	250000	184000	73.4	1.54	53 - 127	26	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
o-Terphenyl	96.8	100	43 - 136	PASS
Octacosane	101	102	25 - 162	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2252444
Report generated: 12/16/2011 16:07

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120224
Instrument Id: HP14
Workgroup (AAB#): WG384320

Method: 8015
CAL ID: HP14-20-SEP-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11120224-02	1.00	01	95.6	124
L11120224-03	1.00	01	101	130
L11120224-06	1.00	01	70.5	97.5
L11120224-07	1.00	01	69.8	118
L11120224-09	1.00	01	56.6	98.0
L11120224-10	1.00	01	80.3	114
L11120224-11	1.00	01	63.0	97.7
L11120224-14	1.00	01	73.9	103
L11120224-15	1.00	01	59.5	86.2
L11120224-16	1.00	01	59.1	80.7
L11120224-17	1.00	01	60.4	82.2
WG384182-01	1.00	01	87.5	98.2
WG384182-02	1.00	01	96.8	101
WG384182-03	1.00	01	100	102

Surrogates	Surrogate Limits		
1 - o-Terphenyl	43	-	136
2 - Octacosane	25	-	162

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2252445
Report generated: 12/16/2011 16:07

Login Number: L11120224
Instrument Id: HP14
Workgroup (AAB#): WG384320

Method: 8015
CAL ID: HP14-13-DEC-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11120224-01	20.0	DL01	DL	DL
L11120224-04	1.00	01	79.3	106
L11120224-05	20.0	DL01	DL	DL
L11120224-08	1.00	01	76.0	108
L11120224-12	1.00	01	97.5	117
L11120224-13	20.0	DL01	DL	DL

Surrogates	Surrogate Limits		
1 - o-Terphenyl	43	-	136
2 - Octacosane	25	-	162

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2252445
Report generated: 12/16/2011 16:07

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/10/2011 Sample ID: WG384355-02

Instrument ID: HP14 Run Time: 00:37 Method: 8015C

File ID: 14G36073.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384320 Cal ID: HP14 - 20-SEP-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	959000	ug/L	52600	4.08	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2254249

Report generated 12/16/2011 16:07

Microbac Laboratories Inc.
CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/10/2011 Sample ID: WG384355-03
Instrument ID: HP14 Run Time: 10:03 Method: 8015C
File ID: 14G36085.R Analyst: HAV QC Key: STD
Workgroup (AAB#): WG384320 Cal ID: HP14 - 20-SEP-11
Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1140000	ug/L	62500	14.0	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008
PDF File ID: 2254249
Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/10/2011 Sample ID: WG384355-04

Instrument ID: HP14 Run Time: 17:08 Method: 8015C

File ID: 14G36094.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384320 Cal ID: HP14 - 20-SEP-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1020000	ug/L	56100	2.37	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2254249

Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/14/2011 Sample ID: WG384643-01

Instrument ID: HP14 Run Time: 02:29 Method: 8015C

File ID: 14G36122.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384320 Cal ID: HP14 - 13-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1100000	ug/L	49800	10.4	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2254249

Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384643-05

Instrument ID: HP14 Run Time: 13:51 Method: 8015C

File ID: 14G36167.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384320 Cal ID: HP14 - 13-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1140000	ug/L	51500	14.3	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2254249

Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120224 Run Date: 12/15/2011 Sample ID: WG384643-06

Instrument ID: HP14 Run Time: 17:48 Method: 8015C

File ID: 14G36172.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384320 Cal ID: HP14 - 13-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1090000	ug/L	49200	9.03	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2254249

Report generated 12/16/2011 16:07

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120224 Run Date: 09/20/2011 Sample ID: WG376523-07
Instrument ID: HP14 Run Time: 15:23 Method: 8015C
File ID: 14G35174.R Analyst: HAV QC Key: STD
ICal Workgroup: WG376523 Cal ID: HP14 - 20-SEP-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1050000	ug/L	57700	5.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2254248
Report generated 12/16/2011 16:07

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120224 Run Date: 12/13/2011 Sample ID: WG384642-07
Instrument ID: HP14 Run Time: 17:50 Method: 8015C
File ID: 14G36111.R Analyst: HAV QC Key: STD
ICal Workgroup: WG384642 Cal ID: HP14 - 13-DEC-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1090000	ug/L	49300	9.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2254248
Report generated 12/16/2011 16:07

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 092011
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: 12 Rev: 6

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP

Workgroups: WG376548

Internal STD: NA Surrogate STD: NA Calibration STD STD47624

Comments: DRO ICAL was run because of a new standard.
Due to the extracts appearence, samples L11090462 (01-03) and L11090509 (09) were analyzed at dilutions.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G35165.R	ch2cl2	1	1		09/20/11 09:36
2	14G35166.R	WIN DEF STD	1	1		09/20/11 08:54
3	14G35167.R	DRO CCV @1000ppm	1	1	STD44902	09/20/11 10:17
4	14G35168.R	WG376523-01 DRO @10000ppm	1	1	STD47624	09/20/11 11:10
5	14G35169.R	WG376523-02 DRO @5000ppm	1	1	STD47624	09/20/11 11:52
6	14G35170.R	WG376523-03 DRO @2500ppm	1	1	STD47624	09/20/11 12:34
7	14G35171.R	WG376523-04 DRO @1000ppm	1	1	STD47624	09/20/11 13:16
8	14G35172.R	WG376523-05 DRO @500ppm	1	1	STD47624	09/20/11 13:58
9	14G35173.R	WG376523-06 DRO @100ppm	1	1	STD47624	09/20/11 14:40
10	14G35174.R	WG376523-07 ALT DRO @1000ppm	1	1	STD44928	09/20/11 15:23
11	14G35175.R	WG376315-01 BLANK	7	1		09/20/11 16:07
12	14G35176.R	WG376315-02 LCS	7	1		09/20/11 16:49
13	14G35177.R	WG376315-03 LCS DUP	7	1		09/20/11 17:31
14	14G35178.R	L11090509-01	7	1		09/20/11 18:13
15	14G35179.R	L11090509-02	7	1		09/20/11 18:55
16	14G35180.R	L11090509-03	7	1		09/20/11 19:37
17	14G35181.R	L11090509-04	7	1		09/20/11 20:19
18	14G35182.R	L11090509-05	7	1		09/20/11 21:01
19	14G35183.R	L11090509-06	7	1		09/20/11 21:43
20	14G35184.R	L11090509-08	7	1		09/20/11 22:25
21	14G35185.R	ch2cl2	1	1		09/20/11 23:07
22	14G35186.R	WG376585-01 DRO CCV @1000ppm	1	1	STD47624	09/20/11 23:49
23	14G35187.R	L11090509-07	7	1		09/21/11 00:31
24	14G35188.R	L11090509-09 2x	7	2		09/21/11 01:13
25	14G35189.R	L11090462-01 2x	7	2		09/21/11 01:54
26	14G35190.R	L11090462-02 2x	7	2		09/21/11 02:36
27	14G35191.R	L11090462-03 2x	7	2		09/21/11 03:18
28	14G35192.R	ch2cl2	1	1		09/21/11 04:00
29	14G35193.R	WG376585-02 DRO CCV @1000ppm	1	1	STD47624	09/21/11 04:41

Comments

Seq.	Rerun	Dil.	Reason	Analytes

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 120911
Analyst1: HAV Analyst2: NA
Method: 8015-DRO SOP: GCS02 Rev: 13
Method: 8015-DRO SOP: OVAP GCS02 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups:

Internal STD: NA Surrogate STD: NA Calibration STD STD47624
CCV STD: STD47624 LCS STD: MS/MSD STD:

Comments: Samples L11120197 (01,02,04,05) and L11120224 (01,05,13) were analyzed at dilutions because of extract appearance.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G36063.R	ch2cl2	1	1		12/09/11 16:44
2	14G36064.R	WIN DEF STD	1	1		12/09/11 17:31
3	14G36065.R	WG384355-01 DRO CCV @1000ppm	1	1	STD47624	12/09/11 18:18
4	14G36066.R	L11120198-18	7	1		12/09/11 19:06
5	14G36067.R	L11120198-19	7	1		12/09/11 19:53
6	14G36068.R	L11120207-03	7	1		12/09/11 20:41
7	14G36069.R	L11120197-02 20x	7	20		12/09/11 21:28
8	14G36070.R	L11120197-04 20x	7	20		12/09/11 22:15
9	14G36071.R	L11120197-05 20x	7	20		12/09/11 23:02
10	14G36072.R	ch2cl2	1	1		12/09/11 23:50
11	14G36073.R	WG384355-02 DRO CCV @1000ppm	1	1	STD47624	12/10/11 00:37
12	14G36074.R	WG384182-01 BLANK	7	1		12/10/11 01:24
13	14G36075.R	WG384182-02 LCS	7	1		12/10/11 02:11
14	14G36076.R	WG384182-03 LCS DUP	7	1		12/10/11 02:58
15	14G36077.R	L11120224-02 DRO-SPE	7	1		12/10/11 03:46
16	14G36078.R	L11120224-03 DRO-SPE	7	1		12/10/11 04:33
17	14G36079.R	L11120224-04 DRO-SPE	7	1		12/10/11 05:20
18	14G36080.R	L11120224-06 DRO-SPE	7	1		12/10/11 06:07
19	14G36081.R	L11120224-07 DRO-SPE	7	1		12/10/11 06:55
20	14G36082.R	L11120224-08 DRO-SPE	7	1		12/10/11 07:42
21	14G36083.R	L11120224-10 DRO-SPE	7	1		12/10/11 08:29
22	14G36084.R	ch2cl2	1	1		12/10/11 09:16
23	14G36085.R	WG384355-03 DRO CCV @1000ppm	1	1	STD47624	12/10/11 10:03
24	14G36086.R	L11120224-09 DRO-SPE	7	1		12/10/11 10:51
25	14G36087.R	L11120224-11 DRO-SPE	7	1		12/10/11 11:38
26	14G36088.R	L11120224-12 DRO-SPE	7	1		12/10/11 12:25
27	14G36089.R	L11120224-14 DRO-SPE	7	1		12/10/11 13:12
28	14G36090.R	L11120224-15 DRO-SPE	7	1		12/10/11 13:59
29	14G36091.R	L11120224-16 DRO-SPE	7	1		12/10/11 14:46
30	14G36092.R	L11120224-17 DRO-SPE	7	1		12/10/11 15:34
31	14G36093.R	ch2cl2	1	1		12/10/11 16:21
32	14G36094.R	WG384355-04 DRO CCV @1000ppm	1	1	STD47624	12/10/11 17:08
33	14G36095.R	L11120224-01 20x DRO-SPE	7	20		12/10/11 17:55

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Microbac

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 120911
Analyst1: HAV Analyst2: NA
Method: 8015-DRO SOP: GCS02 Rev: 13
Method: 8015-DRO SOP: OVAP GCS02 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP

Workgroups:

Internal STD: NA Surrogate STD: NA STD47624
CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	14G36096.R	L11120224-05 20x DRO-SPE	7	20		12/10/11 18:42
35	14G36097.R	L11120224-13 20x DRO-SPE	7	20		12/10/11 19:29
36	14G36098.R	L11120197-01 10x DRO-SPE	7	10		12/10/11 20:16
37	14G36099.R	ch2cl2	1	1		12/10/11 21:04
38	14G36100.R	WG384355-05 DRO CCV @1000ppm	1	1	STD47624	12/10/11 21:51

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3				
	WG384355-01 DRO CCV: DRO, Octacosane >15%D, samples 14G36066-36067, 14G36069-36071 need RR.			
17	X			
	Due to a GC signal noise, sample L11120224-04 needed a RR.			
20	X			
	Due to a GC signal noise, sample L11120224-08 needed a RR.			
26				
	Due to a GC signal noise, sample L11120224-12 needed a RR.			
33	X			
	Due to a GC signal noise, sample L11120224-01 needed a RR.			
35	X			
	Due to a GC signal noise, sample L11120224-13 20x needed a RR.			
36	X			
	Due to a GC signal noise, sample L11120197-01 10x needed a RR.			
38				
	WG384355-05 DRO CCV: All analytes >15%D (biased low), 14G36095-14G36098 need RR.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA Calibration STD STD47624
CCV STD: STD47624 LCS STD: MS/MSD STD:

Comments: Samples L11120197 (01,02,04,05), L11120198 (16,18,19), L11120224 (01,04,05,08,12,13) were re-ran due to check std. failure against OVAP limits.
Due to the random baseline signal spikes, maintenence on GC systems were performed and a new ICAL was run.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G36101.R	ch2cl2	1	1		12/13/11 09:15
2	14G36102.R	WIN DEF STD	1	1		12/13/11 10:02
3	14G36103.R	WG384642-04 DRO CCV @1000ppm	1	1	STD47624	12/13/11 10:49
4	14G36104.R	WG384642-01 DRO @10000ppm	1	1	STD47624	12/13/11 11:35
5	14G36105.R	WG384642-02 DRO @5000ppm	1	1	STD47624	12/13/11 12:22
6	14G36106.R	WG384642-03 DRO @2500ppm	1	1	STD47624	12/13/11 13:10
7	14G36107.R	DRO @1000ppm	1	1	STD47624	12/13/11 13:57
8	14G36108.R	WG384642-05 DRO @500ppm	1	1	STD47624	12/13/11 14:44
9	14G36110.R	WG384642-06 DRO @100ppm	1	1	STD47624	12/13/11 17:02
10	14G36111.R	WG384642-07 ALT DRO @1000ppm	1	1	STD49074	12/13/11 17:50
11	14G36112.R	L11120224-04 RR	7	1		12/13/11 18:37
12	14G36113.R	L11120224-08 RR	7	1		12/13/11 19:24
13	14G36114.R	L11120224-12 RR	7	1		12/13/11 20:11
14	14G36115.R	L11120224-01 20x	7	20		12/13/11 20:58
15	14G36116.R	L11120224-13 20x	7	20		12/13/11 21:46
16	14G36117.R	L11120197-01 10x	7	10		12/13/11 22:33
17	14G36118.R	WG384341-01 BLANK	1	1		12/13/11 23:20
18	14G36119.R	WG384341-02 LCS	1	1		12/14/11 00:07
19	14G36120.R	WG384341-03 LCS DUP	1	1		12/14/11 00:54
20	14G36121.R	L11120128-01	1	1		12/14/11 01:42
21	14G36122.R	WG384643-01 DRO CCV @1000ppm	1	1	STD47624	12/14/11 02:29
22	14G36123.R	L11120230-01	1	1		12/14/11 03:16
23	14G36124.R	L11120230-04	1	1		12/14/11 04:03
24	14G36125.R	L11120230-07	1	1		12/14/11 04:50
25	14G36126.R	L11120250-01	1	1		12/14/11 05:37
26	14G36127.R	L11120250-04	1	1		12/14/11 06:25
27	14G36128.R	L11120285-03	1	1		12/14/11 07:12
28	14G36129.R	L11120285-06	1	1		12/14/11 07:59
29	14G36130.R	L11120286-03	1	1		12/14/11 08:46
30	14G36131.R	L11120286-04	1	1		12/14/11 09:33
31	14G36132.R	L11120286-05	1	1		12/14/11 10:21
32	14G36133.R	WG384643-02 DRO CCV @1000ppm	1	1	STD47624	12/14/11 11:08
33	14G36134.R	L11120198-18 RR	7	1		12/14/11 11:55

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA STD47624
CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	14G36135.R	L11120198-19 RR	7	1		12/14/11 12:42
35	14G36136.R	L11120197-02 20x RR	7	20		12/14/11 13:30
36	14G36137.R	L11120197-04 20x RR	7	20		12/14/11 14:17
37	14G36138.R	L11120197-05 20x RR	7	20		12/14/11 15:05
38	14G36139.R	L11120198-16 RR	7	1		12/14/11 15:52
39	14G36140.R	L11120310-01	1	1		12/14/11 16:39
40	14G36141.R	L11120310-02	1	1		12/14/11 17:26
41	14G36142.R	L11120310-03	1	1		12/14/11 18:14
42	14G36143.R	L11120332-01	1	1		12/14/11 19:01
43	14G36144.R	WG384643-03 DRO CCV @1000ppm	1	1	STD47624	12/14/11 19:48
44	14G36145.R	L11120332-02	1	1		12/14/11 20:36
45	14G36146.R	L11120333-01	1	1		12/14/11 21:23
46	14G36147.R	L11120333-02	1	1		12/14/11 22:10
47	14G36148.R	WG384342-01 BLANK	7	1		12/14/11 22:57
48	14G36149.R	WG384342-02 LCS	7	1		12/14/11 23:45
49	14G36150.R	WG384342-03 LCS DUP	7	1		12/15/11 00:32
50	14G36151.R	L11120230-02	7	1		12/15/11 01:19
51	14G36152.R	L11120230-03	7	1		12/15/11 02:06
52	14G36153.R	L11120230-05	7	1		12/15/11 02:53
53	14G36154.R	L11120230-06	7	1		12/15/11 03:41
54	14G36155.R	WG384643-04 DRO CCV @1000ppm	1	1	STD47624	12/15/11 04:28
55	14G36156.R	L11120230-08	7	1		12/15/11 05:15
56	14G36157.R	L11120230-09	7	1		12/15/11 06:02
57	14G36158.R	L11120250-02	7	1		12/15/11 06:50
58	14G36159.R	L11120250-03	7	1		12/15/11 07:37
59	14G36160.R	L11120250-05	7	1		12/15/11 08:24
60	14G36161.R	L11120250-06	7	1		12/15/11 09:12
61	14G36162.R	L11120285-01	7	1		12/15/11 09:59
62	14G36163.R	L11120285-02	7	1		12/15/11 10:47
63	14G36164.R	L11120285-04	7	1		12/15/11 11:34
64	14G36165.R	L11120285-05	7	1		12/15/11 12:22
65	14G36166.R	ch2cl2	1	1		12/15/11 13:09
66	14G36167.R	WG384643-05 DRO CCV @1000ppm	1	1	STD47624	12/15/11 13:51
67	14G36168.R	L11120286-01 DRO-SPE	7	1		12/15/11 14:38
68	14G36169.R	L11120286-02 DRO-SPE	7	1		12/15/11 15:26
69	14G36170.R	L11120224-05 20x RR DRO-SPE	7	20		12/15/11 16:13

Page: 2 Approved: 16-DEC-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA STD47624
CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
70	14G36171.R	ch2cl2	1	1		12/15/11 17:01
71	14G36172.R	WG384643-06 DRO CCV @1000ppm	1	1	STD47624	12/15/11 17:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Check Standard Failure	
	Failed low after GC maintenence, need a new ICAL.			
43				
	WG384643-03 DRO CCV failed marginally 15% limit for surrogate O-Terphenyl.			

Page: 3 Approved: 16-DEC-11

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG384182
Analyst: RAH
Spike Analyst: RAH
Method: 3545
Run Date: 12/08/2011 15:11
SOP: ASE01 Revison 8
Spike Witness: CPD
Surr Solution: STD48897

Methylene Chloride Lot #: COA15754
Purified Lab Sand Lot #: COA15341
Diatomaceous Earth Lot #: COA15755
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15761

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11120224-01	SAMP			DRO-SPE	19.09 g	1 mL			1 mL	Opaque
2	L11120224-02	SAMP			DRO-SPE	18.12 g	1 mL			1 mL	Colored
3	L11120224-03	SAMP			DRO-SPE	17.17 g	1 mL			1 mL	Opaque
4	L11120224-04	SAMP			DRO-SPE	18.37 g	1 mL			1 mL	Colored
5	L11120224-05	SAMP			DRO-SPE	18.02 g	1 mL			1 mL	Opaque
6	L11120224-06	SAMP			DRO-SPE	22.14 g	1 mL			1 mL	Colored
7	L11120224-07	SAMP			DRO-SPE	21.14 g	1 mL			1 mL	Colored
8	L11120224-08	SAMP			DRO-SPE	18.85 g	1 mL			1 mL	Colored
9	L11120224-09	SAMP			DRO-SPE	18.75 g	1 mL			1 mL	Opaque
10	L11120224-10	SAMP			DRO-SPE	19.15 g	1 mL			1 mL	Colored
11	L11120224-11	SAMP			DRO-SPE	18.21 g	1 mL			1 mL	Colored
12	L11120224-12	SAMP			DRO-SPE	19.38 g	1 mL			1 mL	Colored
13	L11120224-13	SAMP			DRO-SPE	20.01 g	1 mL			1 mL	Opaque
14	L11120224-14	SAMP			DRO-SPE	18.39 g	1 mL			1 mL	Colored
15	L11120224-15	SAMP			DRO-SPE	19.22 g	1 mL			1 mL	Colored
16	L11120224-16	SAMP			DRO-SPE	17.69 g	1 mL			1 mL	Colored
17	L11120224-17	SAMP			DRO-SPE	17.79 g	1 mL			1 mL	Colored
18	WG384182-01	BLANK			DRO-SPE	20 g	1 mL			1 mL	Transparent
19	WG384182-02	LCS			DRO-SPE	20 g	1 mL	1 mL	STD46344	1 mL	Transparent
20	WG384182-03	LCS2			DRO-SPE	20 g	1 mL	1 mL	STD46344	1 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Analyst:

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 2249360
Report generated: 12/09/2011 14:27

L11120224 / Revision: 1 / 131 total pages

COC No. A 28052

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: TETRA TECH

Project Contact: BRANDON HELM

Contact Phone #: 513-564-8355

Turn Around Requirements: NORMAL

Location: MANSFIELD, OH.

Project ID: 103P208301

Sampler (print): BRANDON HELM

Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC	PAH + DRO	% Solids	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
BORING 13 0-2		X	12-6-11	0925	SOIL	3		X	X	X		DO NOT
2-4		↓	↓	↓	↓							NEED GRO
BORING 14 0-2				0935								
2-4				↓								
BORING 15 0-2				0950								
2-4				↓								
BORING 16 0-2				1010								
2-4				↓								
BORING 17 0-2				1030								
2-4				↓								
BORING 18 0-2				1100								
2-4				↓								
BORING 19 0-2				1110								
2-4				↓								
BORING 20 0-2				1125								
2-4				↓								
DUPLICATE 2		↓	↓	—	↓							

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	12/6/11	1500			
Relinquished by: (Signature)	Date	Time	Remarks:		

Microbac OVD
Received: 12/07/2011 13:03
By: BRENDA GREENWALT
221000020752

Brenda Greenwalt

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 1

Generated: 01/05/2012 10:53

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-01	918267	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-01	918268	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11120224-01	918269	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	ANALYZ	W1	WET	08-DEC-2011 13:34	JDH	RLK	
3	STORE	WET	W1	12-DEC-2011 16:17	RLK	JDH	
4	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-02	918270	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-02	918271	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-02	918272	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	ANALYZ	W1	WET	08-DEC-2011 13:34	JDH	RLK	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-03	918273	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:30	JKT	CS	

Samplenum	Container ID	Products
L11120224-03	918274	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-03	918275	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	ANALYZ	W1	WET	08-DEC-2011 13:34	JDH	RLK	
3	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
4	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-04	918276	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-04	918277	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-04	918278	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-05	918279	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-05	918280	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11120224-05	918281	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:17	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-06	918282	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-06	918283	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-06	918284	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-07	918285	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-07	918286	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-07	918287	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-08	918288	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-08	918289	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:57	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-08	918290	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-09	918291	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-09	918292	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11120224-09	918293	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:17	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-10	918294	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:30	JKT	CS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-10	918295	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-10	918296	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-11	918297	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-11	918298	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-11	918299	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:17	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-12	918300	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	

Samplenum	Container ID	Products
L11120224-12	918301	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-12	918302	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-13	918303	G-60-W 826-VAP2

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-13	918304	DRO-SPE 827-PAHL

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

***Sample extract/digestate/leachate**

Samplenum	Container ID	Products
L11120224-13	918305	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-14	918306	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:30	JKT	CS	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-14	918307	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:56	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-14	918308	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-15	918309	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-15	918310	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:55	BLG	BLG	

Sample extract/digestate/leachate

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac Laboratories Inc.

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-15	918311	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

Samplenum	Container ID	Products
L11120224-16	918312	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	

Samplenum	Container ID	Products
L11120224-16	918313	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:55	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-16	918314	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:16	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:58	BLG	BLG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Internal Chain of Custody Report

Login: L11120224
Account: 2497
Project: 2497.012
Samples: 17
Due Date: 16-DEC-2011

Samplenum	Container ID	Products
L11120224-17	918315	826-VAP2 G-60-W

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	V1	08-DEC-2011 11:58	CLS		
2	ANALYZ	V1	ORG4	08-DEC-2011 15:31	MRT	JKT	
3	ANALYZ	ORG4	A2	21-DEC-2011 08:31	JKT	CS	

Samplenum	Container ID	Products
L11120224-17	918316	827-PAHL DRO-SPE

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	W1	08-DEC-2011 11:58	CLS		
2	PREP	W1	EXT	08-DEC-2011 14:48	CEB	RLK	
3	STORE	EXT	W1	09-DEC-2011 06:39	AZH	CEB	
4	ANALYZ*	EXT	SEMI	09-DEC-2011 14:41	CAA	CEB	
5	STORE	W1	A2	21-DEC-2011 09:55	BLG	BLG	

Sample extract/digestate/leachate

Samplenum	Container ID	Products
L11120224-17	918317	PCT-S

Bottle: 1

Seq.	Purpose	From	To	Date/Time	Accept	Relinquish	pH
1	LOGIN	COOLER	WET	08-DEC-2011 11:58	CLS		
2	STORE	WET	W1	12-DEC-2011 16:17	RLK	JDH	
3	STORE	W1	A2	21-DEC-2011 09:59	BLG	BLG	

A1 - Sample Archive (COLD)
A2 - Sample Archive (AMBIENT)
F1 - Volatiles Freezer in Login
V1 - Volatiles Refrigerator in Login
W1 - Walkin Cooler in Login

Microbac

Laboratory Report Number: L11120198

Brandon Helm
Tetra Tech
250 W. Court St.
Cincinnati, OH 45202

Please find enclosed the analytical results for the samples you submitted to Microbac Laboratories. Review and compilation of your report was completed by Microbac's Ohio Valley Division (OVD). If you have any questions, comments, or require further assistance regarding this report, please contact your service representative listed below.

This report was reviewed on December 20 2011

Tony Long – Team Chemist/Data Specialist
(740) 373-4071
Tony.Long@microbac.com

I certify that all test results meet all of the requirements of the accrediting authority listed below. All results for soil samples are reported on a 'dry-weight' basis unless specified otherwise. Analytical results for water and wastes are reported on a 'as received' basis unless specified otherwise. A statement of uncertainty for each analysis is available upon request. This laboratory report shall not be reproduced, except in full, without the written approval of Microbac Laboratories. The reported results are related only to the samples analyzed as received.

This report was certified on December 20 2011

David Vandenberg – Managing Director

State of Origin: OH
Accrediting Authority: N/A ID:N/A
QAPP: Ohio VAP - Certified Laboratory: CL0012

Microbac

Lab Report #: L11120198
Lab Project #: 2497.012
Project Name: Mansfield VAP
Lab Contact: Tony Long

Record of Sample Receipt and Inspection

Comments/Discrepancies

This is the record of the shipment conditions and the inspection records for the samples received and reported as a sample delivery group (SDG). All of the samples were inspected and observed to conform to our receipt policies, except as noted below.

There were no discrepancies.

Discrepancy	Resolution

Coolers

Cooler #	Temperature Gun	Temperature	COC #	Airbill #
0016344	G	5.0		1015923830760004575000795760436532
0015673	G	4.0		1001845330910004575000898709115390
0016437	G	5.0		1001845331040004575000898709115389

Inspection Checklist

#	Question	Result
1	Were shipping coolers sealed?	Yes
2	Were custody seals intact?	Yes
3	Were cooler temperatures in range of 0-6?	Yes
4	Was ice present?	Yes
5	Were COC's received/information complete/signed and dated?	Yes
6	Were sample containers intact and match COC?	Yes
7	Were sample labels intact and match COC?	Yes
8	Were the correct containers and volumes received?	Yes
9	Were samples received within EPA hold times?	Yes
10	Were correct perservatives used? (water only)	NA
11	Were pH ranges acceptable? (voa's excluded)	NA
12	Were VOA samples free of headspace (less than 6mm)?	NA

Samples Received

Client ID	Laboratory ID	Date Collected	Date Received
BORING 1 2-4	L11120198-01	12/05/2011 11:20	12/07/2011 13:03
BORING 2 2-4	L11120198-02	12/05/2011 11:30	12/07/2011 13:03
BORING 3 0-2	L11120198-03	12/05/2011 11:45	12/07/2011 13:03
BORING 3 2-4	L11120198-04	12/05/2011 11:45	12/07/2011 13:03
BORING 4 0-2	L11120198-05	12/05/2011 13:00	12/07/2011 13:03
BORING 4 2-4	L11120198-06	12/05/2011 13:00	12/07/2011 13:03
BORING 5 0-2	L11120198-07	12/05/2011 13:15	12/07/2011 13:03
BORING 5 2-4	L11120198-08	12/05/2011 13:15	12/07/2011 13:03
BORING 6 2-4	L11120198-09	12/05/2011 13:20	12/07/2011 13:03
BORING 7 2-4	L11120198-10	12/05/2011 13:30	12/07/2011 13:03
BORING 8 2-4	L11120198-11	12/05/2011 13:45	12/07/2011 13:03
BORING 9 2-4	L11120198-12	12/05/2011 14:00	12/07/2011 13:03
BORING 10 0-2	L11120198-13	12/05/2011 14:15	12/07/2011 13:03
BORING 10 2-4	L11120198-14	12/05/2011 14:15	12/07/2011 13:03
BORING 11 0-2	L11120198-15	12/05/2011 14:30	12/07/2011 13:03
BORING 11 2-4	L11120198-16	12/05/2011 14:30	12/07/2011 13:03
BORING 12 0-2	L11120198-17	12/05/2011 14:40	12/07/2011 13:03
BORING 12 2-4	L11120198-18	12/05/2011 14:40	12/07/2011 13:03
DUPLICATE	L11120198-19	12/05/2011 00:01	12/07/2011 13:03

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-01**
Client ID: **BORING 1 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/08/2011 23:34**
File ID: **14G36042.R**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		9470	J	10500	2100
Carbon Range-C20-C34		18500		10500	2100

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	83.6	43	136	
Octacosane	105	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-01**
Client ID: **BORING 1 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 15:44**
File ID: **7M53662**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.58		2.64	1.32
Acenaphthylene	208-96-8		U	2.64	1.32
Acenaphthene	83-32-9	3.38		2.64	1.32
Fluorene	86-73-7	3.16		2.64	1.32
Phenanthrene	85-01-8	37.9		2.64	1.32
Anthracene	120-12-7	12.2		2.64	1.32
Fluoranthene	206-44-0	59.5		2.64	1.32
Pyrene	129-00-0	49.6		2.64	1.32
Benzo(a)anthracene	56-55-3	30.5		2.64	1.32
Chrysene	218-01-9	30.4		2.64	1.32
Benzo(b)fluoranthene	205-99-2	25.4		2.64	1.32
Benzo(k)fluoranthene	207-08-9	24.1		2.64	1.32
Benzo(a)pyrene	50-32-8	25.9		2.64	1.32
Indeno(1,2,3-cd)pyrene	193-39-5	15.9		2.64	1.32
Dibenzo(a,h)anthracene	53-70-3	5.34		2.64	1.32
Benzo(g,h,i)perylene	191-24-2	17.7		2.64	1.32
1-Methylnaphthalene	90-12-0	4.98		2.64	1.32
2-Methylnaphthalene	91-57-6	6.21		2.64	1.32

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	57.6	23	120	
2-Fluorobiphenyl	51.8	30	115	
p-Terphenyl-d14	73.8	18	137	

U Not detected at or above adjusted sample detection limit

Sample Number: **L11120198-01**
Client ID: **BORING 1 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 11:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0119**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.8		1.00	1.00

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-02**
Client ID: **BORING 2 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 00:21**
File ID: **14G36043.R**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		6320	J	10800	2160
Carbon Range-C20-C34		12200		10800	2160

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	86.6	43	136	
Octacosane	107	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-02**
Client ID: **BORING 2 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 16:10**
File ID: **7M53663**
Percent Solid: **89.9**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	1.42	J	2.70	1.35
Acenaphthylene	208-96-8		U	2.70	1.35
Acenaphthene	83-32-9	3.44		2.70	1.35
Fluorene	86-73-7	3.27		2.70	1.35
Phenanthrene	85-01-8	49.8		2.70	1.35
Anthracene	120-12-7	12.0		2.70	1.35
Fluoranthene	206-44-0	74.8		2.70	1.35
Pyrene	129-00-0	58.6		2.70	1.35
Benzo(a)anthracene	56-55-3	31.7		2.70	1.35
Chrysene	218-01-9	34.0		2.70	1.35
Benzo(b)fluoranthene	205-99-2	27.7		2.70	1.35
Benzo(k)fluoranthene	207-08-9	25.6		2.70	1.35
Benzo(a)pyrene	50-32-8	26.9		2.70	1.35
Indeno(1,2,3-cd)pyrene	193-39-5	16.4		2.70	1.35
Dibenzo(a,h)anthracene	53-70-3	5.66		2.70	1.35
Benzo(g,h,i)perylene	191-24-2	18.8		2.70	1.35
1-Methylnaphthalene	90-12-0	2.05	J	2.70	1.35
2-Methylnaphthalene	91-57-6	2.25	J	2.70	1.35

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	52.6	23	120	
2-Fluorobiphenyl	46.9	30	115	
p-Terphenyl-d14	77.7	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-02**
Client ID: **BORING 2 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 11:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0120**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.9		1.00	1.00

Sample Number: **L11120198-03**
Client ID: **BORING 3 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 01:08**
File ID: **14G36044.R**
Percent Solid: **91.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		50300		10800	2170
Carbon Range-C20-C34		208000		10800	2170

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	85.5	43	136	
Octacosane	112	25	162	

Sample Number: **L11120198-03**
Client ID: **BORING 3 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 18:52**
File ID: **7M53669**
Percent Solid: **91.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	134		13.6	6.78
Acenaphthylene	208-96-8	38.8		13.6	6.78
Acenaphthene	83-32-9	897		13.6	6.78
Fluorene	86-73-7	828		13.6	6.78
Phenanthrene	85-01-8	8050	I	13.6	6.78
Anthracene	120-12-7	1980		13.6	6.78
Fluoranthene	206-44-0	9630	I	13.6	6.78
Pyrene	129-00-0	8780	I	13.6	6.78
Benzo(a)anthracene	56-55-3	5870	I	13.6	6.78
Chrysene	218-01-9	5600	I	13.6	6.78
Benzo(b)fluoranthene	205-99-2	4710	I	13.6	6.78
Benzo(k)fluoranthene	207-08-9	3990	I	13.6	6.78
Benzo(a)pyrene	50-32-8	4600	I	13.6	6.78
Indeno(1,2,3-cd)pyrene	193-39-5	3050	I	13.6	6.78
Dibenzo(a,h)anthracene	53-70-3	1090		13.6	6.78
Benzo(g,h,i)perylene	191-24-2	2900	I	13.6	6.78
1-Methylnaphthalene	90-12-0	160		13.6	6.78
2-Methylnaphthalene	91-57-6	182		13.6	6.78

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	44.9	23	120	
2-Fluorobiphenyl	61.5	30	115	
p-Terphenyl-d14	113	18	137	

I Semiquantitative result (out of instrument calibration range)

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-03**
Client ID: **BORING 3 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:45**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 18:21**
File ID: **7M53692**
Percent Solid: **91.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	150		136	67.8
Acenaphthylene	208-96-8		U	136	67.8
Acenaphthene	83-32-9	1040		136	67.8
Fluorene	86-73-7	934		136	67.8
Phenanthrene	85-01-8	12000		136	67.8
Anthracene	120-12-7	2880		136	67.8
Fluoranthene	206-44-0	17000		136	67.8
Pyrene	129-00-0	13700		136	67.8
Benzo(a)anthracene	56-55-3	7950		136	67.8
Chrysene	218-01-9	7520		136	67.8
Benzo(b)fluoranthene	205-99-2	6250		136	67.8
Benzo(k)fluoranthene	207-08-9	6740		136	67.8
Benzo(a)pyrene	50-32-8	6430		136	67.8
Indeno(1,2,3-cd)pyrene	193-39-5	3470		136	67.8
Dibenzo(a,h)anthracene	53-70-3	1190		136	67.8
Benzo(g,h,i)perylene	191-24-2	3260		136	67.8
1-Methylnaphthalene	90-12-0	180		136	67.8
2-Methylnaphthalene	91-57-6	188		136	67.8

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out

Sample Number: **L11120198-03**
Client ID: **BORING 3 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0121**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.1		1.00	1.00

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 01:56**
File ID: **14G36045.R**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		9450	J	10600	2110
Carbon Range-C20-C34		39200		10600	2110

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 01:56**
File ID: **14G36045.R**
Percent Solid: **92.5**

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	62.2	43	136	
Octacosane	89.2	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 17:58**
File ID: **7M53667**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	232		13.2	6.61
Acenaphthylene	208-96-8	17.2		13.2	6.61
Acenaphthene	83-32-9	1240		13.2	6.61
Fluorene	86-73-7	1220		13.2	6.61
Phenanthrene	85-01-8	7860	I	13.2	6.61
Anthracene	120-12-7	2890	I	13.2	6.61
Fluoranthene	206-44-0	8470	I	13.2	6.61
Pyrene	129-00-0	8220	I	13.2	6.61
Benzo(a)anthracene	56-55-3	6170	I	13.2	6.61
Chrysene	218-01-9	5370	I	13.2	6.61
Benzo(b)fluoranthene	205-99-2	4250	I	13.2	6.61
Benzo(k)fluoranthene	207-08-9	4230	I	13.2	6.61
Benzo(a)pyrene	50-32-8	4840	I	13.2	6.61
Indeno(1,2,3-cd)pyrene	193-39-5	3160	I	13.2	6.61
Dibenzo(a,h)anthracene	53-70-3	1500		13.2	6.61
Benzo(g,h,i)perylene	191-24-2	3000	I	13.2	6.61
1-Methylnaphthalene	90-12-0	91.8		13.2	6.61
2-Methylnaphthalene	91-57-6	130		13.2	6.61

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.2	23	120	
2-Fluorobiphenyl	74.3	30	115	
p-Terphenyl-d14	110	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:45**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 17:27**
File ID: **7M53690**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	257		132	66.1
Acenaphthylene	208-96-8		U	132	66.1
Acenaphthene	83-32-9	1440		132	66.1
Fluorene	86-73-7	1410		132	66.1
Phenanthrene	85-01-8	12200		132	66.1
Anthracene	120-12-7	4330		132	66.1
Fluoranthene	206-44-0	15300		132	66.1
Pyrene	129-00-0	12400		132	66.1

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 11:45**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 17:27**
File ID: **7M53690**
Percent Solid: **92.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Benzo(a)anthracene	56-55-3	8590		132	66.1
Chrysene	218-01-9	7270		132	66.1
Benzo(b)fluoranthene	205-99-2	6130		132	66.1
Benzo(k)fluoranthene	207-08-9	6560		132	66.1
Benzo(a)pyrene	50-32-8	6890		132	66.1
Indeno(1,2,3-cd)pyrene	193-39-5	3560		132	66.1
Dibenzo(a,h)anthracene	53-70-3	1220		132	66.1
Benzo(g,h,i)perylene	191-24-2	3290		132	66.1
1-Methylnaphthalene	90-12-0	103	J	132	66.1
2-Methylnaphthalene	91-57-6	133		132	66.1

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-04**
Client ID: **BORING 3 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 11:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0122**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	92.5		1.00	1.00

Sample Number: **L11120198-05**
Client ID: **BORING 4 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 02:43**
File ID: **14G36046.R**
Percent Solid: **90.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		37100		10700	2150
Carbon Range-C20-C34		217000		10700	2150

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	64.3	43	136	
Octacosane	91.2	25	162	

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-05**
Client ID: **BORING 4 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 18:25**
File ID: **7M53668**
Percent Solid: **90.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	240		13.6	6.81
Acenaphthylene	208-96-8	26.6		13.6	6.81
Acenaphthene	83-32-9	746		13.6	6.81
Fluorene	86-73-7	788		13.6	6.81
Phenanthrene	85-01-8	6530	I	13.6	6.81
Anthracene	120-12-7	1630		13.6	6.81
Fluoranthene	206-44-0	7580	I	13.6	6.81
Pyrene	129-00-0	6620	I	13.6	6.81
Benzo(a)anthracene	56-55-3	4380	I	13.6	6.81
Chrysene	218-01-9	4150	I	13.6	6.81
Benzo(b)fluoranthene	205-99-2	3630	I	13.6	6.81
Benzo(k)fluoranthene	207-08-9	2890	I	13.6	6.81
Benzo(a)pyrene	50-32-8	3460	I	13.6	6.81
Indeno(1,2,3-cd)pyrene	193-39-5	2250		13.6	6.81
Dibenzo(a,h)anthracene	53-70-3	813		13.6	6.81
Benzo(g,h,i)perylene	191-24-2	2170		13.6	6.81
1-Methylnaphthalene	90-12-0	261		13.6	6.81
2-Methylnaphthalene	91-57-6	330		13.6	6.81

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.2	23	120	
2-Fluorobiphenyl	66.7	30	115	
p-Terphenyl-d14	112	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120198-05**
Client ID: **BORING 4 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 17:54**
File ID: **7M53691**
Percent Solid: **90.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	276		136	68.1
Acenaphthylene	208-96-8		U	136	68.1
Acenaphthene	83-32-9	903		136	68.1
Fluorene	86-73-7	939		136	68.1
Phenanthrene	85-01-8	9550		136	68.1
Anthracene	120-12-7	2520		136	68.1
Fluoranthene	206-44-0	12800		136	68.1
Pyrene	129-00-0	10100		136	68.1
Benzo(a)anthracene	56-55-3	5880		136	68.1
Chrysene	218-01-9	5560		136	68.1
Benzo(b)fluoranthene	205-99-2	4920		136	68.1
Benzo(k)fluoranthene	207-08-9	4640		136	68.1
Benzo(a)pyrene	50-32-8	4760		136	68.1
Indeno(1,2,3-cd)pyrene	193-39-5	2500		136	68.1
Dibenzo(a,h)anthracene	53-70-3	877		136	68.1
Benzo(g,h,i)perylene	191-24-2	2370		136	68.1
1-Methylnaphthalene	90-12-0	308		136	68.1
2-Methylnaphthalene	91-57-6	360		136	68.1

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-05**
Client ID: **BORING 4 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 17:54**
File ID: **7M53691**
Percent Solid: **90.5**

DL Surrogate or spike compound was diluted out

Sample Number: **L11120198-05**
Client ID: **BORING 4 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0123**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.5		1.00	1.00

Sample Number: **L11120198-06**
Client ID: **BORING 4 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 03:30**
File ID: **14G36047.R**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		10400	J	10600	2120
Carbon Range-C20-C34		22600		10600	2120

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	73.5	43	136	
Octacosane	96.9	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-06**
Client ID: **BORING 4 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 17:31**
File ID: **7M53666**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	7.61		2.62	1.31
Acenaphthylene	208-96-8	1.50	J	2.62	1.31
Acenaphthene	83-32-9	56.5		2.62	1.31
Fluorene	86-73-7	54.5		2.62	1.31
Phenanthrene	85-01-8	556	I	2.62	1.31
Anthracene	120-12-7	165		2.62	1.31
Fluoranthene	206-44-0	781	I	2.62	1.31
Pyrene	129-00-0	664	I	2.62	1.31

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-06**
Client ID: **BORING 4 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 17:31**
File ID: **7M53666**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Benzo(a)anthracene	56-55-3	488		2.62	1.31
Chrysene	218-01-9	417		2.62	1.31
Benzo(b)fluoranthene	205-99-2	367		2.62	1.31
Benzo(k)fluoranthene	207-08-9	308		2.62	1.31
Benzo(a)pyrene	50-32-8	369		2.62	1.31
Indeno(1,2,3-cd)pyrene	193-39-5	221		2.62	1.31
Dibenzo(a,h)anthracene	53-70-3	78.4		2.62	1.31
Benzo(g,h,i)perylene	191-24-2	213		2.62	1.31
1-Methylnaphthalene	90-12-0	6.93		2.62	1.31
2-Methylnaphthalene	91-57-6	6.97		2.62	1.31

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	59.7	23	120	
2-Fluorobiphenyl	51.1	30	115	
p-Terphenyl-d14	85.4	18	137	

I Semiquantitative result (out of instrument calibration range)
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-06**
Client ID: **BORING 4 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:00**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 17:00**
File ID: **7M53689**
Percent Solid: **90.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	26.2	13.1
Acenaphthylene	208-96-8		U	26.2	13.1
Acenaphthene	83-32-9	54.3		26.2	13.1
Fluorene	86-73-7	57.8		26.2	13.1
Phenanthrene	85-01-8	656		26.2	13.1
Anthracene	120-12-7	224		26.2	13.1
Fluoranthene	206-44-0	1080		26.2	13.1
Pyrene	129-00-0	847		26.2	13.1
Benzo(a)anthracene	56-55-3	561		26.2	13.1
Chrysene	218-01-9	501		26.2	13.1
Benzo(b)fluoranthene	205-99-2	414		26.2	13.1
Benzo(k)fluoranthene	207-08-9	438		26.2	13.1
Benzo(a)pyrene	50-32-8	441		26.2	13.1
Indeno(1,2,3-cd)pyrene	193-39-5	213		26.2	13.1
Dibenzo(a,h)anthracene	53-70-3	97.4		26.2	13.1
Benzo(g,h,i)perylene	191-24-2	201		26.2	13.1
1-Methylnaphthalene	90-12-0		U	26.2	13.1
2-Methylnaphthalene	91-57-6		U	26.2	13.1

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	54.7	23	120	
2-Fluorobiphenyl	56.9	30	115	
p-Terphenyl-d14	81.7	18	137	

U Not detected at or above adjusted sample detection limit

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-06**
Client ID: **BORING 4 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0124**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.8		1.00	1.00

Sample Number: **L11120198-07**
Client ID: **BORING 5 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 06:38**
File ID: **14G36051.R**
Percent Solid: **93.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		39700		10500	2090
Carbon Range-C20-C34		191000		10500	2090

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	69.2	43	136	
Octacosane	90.0	25	162	

Sample Number: **L11120198-07**
Client ID: **BORING 5 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 19:19**
File ID: **7M53670**
Percent Solid: **93.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	70.4		13.3	6.63
Acenaphthylene	208-96-8	8.96	J	13.3	6.63
Acenaphthene	83-32-9	206		13.3	6.63
Fluorene	86-73-7	259		13.3	6.63
Phenanthrene	85-01-8	2540		13.3	6.63
Anthracene	120-12-7	720		13.3	6.63
Fluoranthene	206-44-0	3180	I	13.3	6.63
Pyrene	129-00-0	2560		13.3	6.63
Benzo(a)anthracene	56-55-3	1640		13.3	6.63
Chrysene	218-01-9	1510		13.3	6.63
Benzo(b)fluoranthene	205-99-2	1290		13.3	6.63
Benzo(k)fluoranthene	207-08-9	1220		13.3	6.63
Benzo(a)pyrene	50-32-8	1340		13.3	6.63
Indeno(1,2,3-cd)pyrene	193-39-5	799		13.3	6.63
Dibenzo(a,h)anthracene	53-70-3	278		13.3	6.63
Benzo(g,h,i)perylene	191-24-2	798		13.3	6.63
1-Methylnaphthalene	90-12-0	79.5		13.3	6.63
2-Methylnaphthalene	91-57-6	101		13.3	6.63

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.0	23	120	
2-Fluorobiphenyl	65.5	30	115	
p-Terphenyl-d14	104	18	137	

I Semiquantitative result (out of instrument calibration range)
J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-07**
Client ID: **BORING 5 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:15**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 18:49**
File ID: **7M53693**
Percent Solid: **93.5**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	81.2	J	133	66.3
Acenaphthylene	208-96-8		U	133	66.3
Acenaphthene	83-32-9	208		133	66.3
Fluorene	86-73-7	283		133	66.3
Phenanthrene	85-01-8	3030		133	66.3
Anthracene	120-12-7	892		133	66.3
Fluoranthene	206-44-0	4260		133	66.3
Pyrene	129-00-0	3420		133	66.3
Benzo(a)anthracene	56-55-3	1900		133	66.3
Chrysene	218-01-9	1890		133	66.3
Benzo(b)fluoranthene	205-99-2	1610		133	66.3
Benzo(k)fluoranthene	207-08-9	1690		133	66.3
Benzo(a)pyrene	50-32-8	1650		133	66.3
Indeno(1,2,3-cd)pyrene	193-39-5	831		133	66.3
Dibenzo(a,h)anthracene	53-70-3	402		133	66.3
Benzo(g,h,i)perylene	191-24-2	847		133	66.3
1-Methylnaphthalene	90-12-0	89.3	J	133	66.3
2-Methylnaphthalene	91-57-6	107	J	133	66.3

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-07**
Client ID: **BORING 5 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0125**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	93.5		1.00	1.00

Sample Number: **L11120198-08**
Client ID: **BORING 5 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 04:17**
File ID: **14G36048.R**
Percent Solid: **89.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		14000		10900	2190
Carbon Range-C20-C34		15100		10900	2190

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	77.5	43	136	
Octacosane	101	25	162	

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-08**
Client ID: **BORING 5 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 16:38**
File ID: **7M53664**
Percent Solid: **89.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	2.93		2.69	1.35
Acenaphthylene	208-96-8		U	2.69	1.35
Acenaphthene	83-32-9	6.71		2.69	1.35
Fluorene	86-73-7	7.28		2.69	1.35
Phenanthrene	85-01-8	80.6		2.69	1.35
Anthracene	120-12-7	25.1		2.69	1.35
Fluoranthene	206-44-0	112		2.69	1.35
Pyrene	129-00-0	90.4		2.69	1.35
Benzo(a)anthracene	56-55-3	56.7		2.69	1.35
Chrysene	218-01-9	52.8		2.69	1.35
Benzo(b)fluoranthene	205-99-2	39.9		2.69	1.35
Benzo(k)fluoranthene	207-08-9	43.4		2.69	1.35
Benzo(a)pyrene	50-32-8	44.1		2.69	1.35
Indeno(1,2,3-cd)pyrene	193-39-5	25.0		2.69	1.35
Dibenzo(a,h)anthracene	53-70-3	8.58		2.69	1.35
Benzo(g,h,i)perylene	191-24-2	28.2		2.69	1.35
1-Methylnaphthalene	90-12-0	6.19		2.69	1.35
2-Methylnaphthalene	91-57-6	5.12		2.69	1.35

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.0	23	120	
2-Fluorobiphenyl	44.6	30	115	
p-Terphenyl-d14	59.9	18	137	

U Not detected at or above adjusted sample detection limit

Sample Number: **L11120198-08**
Client ID: **BORING 5 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0126**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.8		1.00	1.00

Sample Number: **L11120198-09**
Client ID: **BORING 6 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 07:25**
File ID: **14G36052.R**
Percent Solid: **91.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		8100	J	10700	2150
Carbon Range-C20-C34		9720	J	10700	2150

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	66.7	43	136	
Octacosane	96.7	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-09**
Client ID: **BORING 6 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/09/2011 17:05**
File ID: **7M53665**
Percent Solid: **91.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	2.72	1.36
Acenaphthylene	208-96-8		U	2.72	1.36
Acenaphthene	83-32-9		U	2.72	1.36
Fluorene	86-73-7		U	2.72	1.36
Phenanthrene	85-01-8	15.5		2.72	1.36
Anthracene	120-12-7	3.27		2.72	1.36
Fluoranthene	206-44-0	16.9		2.72	1.36
Pyrene	129-00-0	13.5		2.72	1.36
Benzo(a)anthracene	56-55-3	7.45		2.72	1.36
Chrysene	218-01-9	13.3		2.72	1.36
Benzo(b)fluoranthene	205-99-2	8.63		2.72	1.36
Benzo(k)fluoranthene	207-08-9	5.02		2.72	1.36
Benzo(a)pyrene	50-32-8	5.84		2.72	1.36
Indeno(1,2,3-cd)pyrene	193-39-5	3.70		2.72	1.36
Dibenzo(a,h)anthracene	53-70-3	1.38	J	2.72	1.36
Benzo(g,h,i)perylene	191-24-2	5.92		2.72	1.36
1-Methylnaphthalene	90-12-0		U	2.72	1.36
2-Methylnaphthalene	91-57-6	1.42	J	2.72	1.36

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	60.6	23	120	
2-Fluorobiphenyl	50.5	30	115	
p-Terphenyl-d14	81.7	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-09**
Client ID: **BORING 6 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:20**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0127**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	91.1		1.00	1.00

Sample Number: **L11120198-10**
Client ID: **BORING 7 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 08:20**
File ID: **14G36053.R**
Percent Solid: **89.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		10800	J	11200	2240
Carbon Range-C20-C34		12600		11200	2240

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-10**
Client ID: **BORING 7 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 08:20**
File ID: **14G36053.R**
Percent Solid: **89.0**

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	61.2	43	136	
Octacosane	85.0	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-10**
Client ID: **BORING 7 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 12:05**
File ID: **7M53678**
Percent Solid: **89.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.81		2.73	1.37
Acenaphthylene	208-96-8		U	2.73	1.37
Acenaphthene	83-32-9	15.4		2.73	1.37
Fluorene	86-73-7	15.3		2.73	1.37
Phenanthrene	85-01-8	182		2.73	1.37
Anthracene	120-12-7	47.4		2.73	1.37
Fluoranthene	206-44-0	248		2.73	1.37
Pyrene	129-00-0	191		2.73	1.37
Benzo(a)anthracene	56-55-3	112		2.73	1.37
Chrysene	218-01-9	107		2.73	1.37
Benzo(b)fluoranthene	205-99-2	93.2		2.73	1.37
Benzo(k)fluoranthene	207-08-9	85.6		2.73	1.37
Benzo(a)pyrene	50-32-8	89.9		2.73	1.37
Indeno(1,2,3-cd)pyrene	193-39-5	54.0		2.73	1.37
Dibenzo(a,h)anthracene	53-70-3	18.6		2.73	1.37
Benzo(g,h,i)perylene	191-24-2	55.7		2.73	1.37
1-Methylnaphthalene	90-12-0	4.35		2.73	1.37
2-Methylnaphthalene	91-57-6	5.90		2.73	1.37

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	56.8	23	120	
2-Fluorobiphenyl	46.1	30	115	
p-Terphenyl-d14	67.1	18	137	

U Not detected at or above adjusted sample detection limit

Sample Number: **L11120198-10**
Client ID: **BORING 7 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0128**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.0		1.00	1.00

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-11**
Client ID: **BORING 8 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 13:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 09:07**
File ID: **14G36054.R**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		41900		10700	2150
Carbon Range-C20-C34		145000		10700	2150

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	71.8	43	136	
Octacosane	89.9	25	162	

Sample Number: **L11120198-11**
Client ID: **BORING 8 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:45**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 14:45**
File ID: **7M53684**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	153		13.3	6.66
Acenaphthylene	208-96-8	21.1		13.3	6.66
Acenaphthene	83-32-9	489		13.3	6.66
Fluorene	86-73-7	596		13.3	6.66
Phenanthrene	85-01-8	5360	I	13.3	6.66
Anthracene	120-12-7	1290		13.3	6.66
Fluoranthene	206-44-0	5810	I	13.3	6.66
Pyrene	129-00-0	4830	I	13.3	6.66
Benzo(a)anthracene	56-55-3	3120	I	13.3	6.66
Chrysene	218-01-9	2910	I	13.3	6.66
Benzo(b)fluoranthene	205-99-2	2380		13.3	6.66
Benzo(k)fluoranthene	207-08-9	2340		13.3	6.66
Benzo(a)pyrene	50-32-8	2410		13.3	6.66
Indeno(1,2,3-cd)pyrene	193-39-5	1400		13.3	6.66
Dibenzo(a,h)anthracene	53-70-3	500		13.3	6.66
Benzo(g,h,i)perylene	191-24-2	1300		13.3	6.66
1-Methylnaphthalene	90-12-0	131		13.3	6.66
2-Methylnaphthalene	91-57-6	180		13.3	6.66

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	41.9	23	120	
2-Fluorobiphenyl	45.1	30	115	
p-Terphenyl-d14	98.0	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120198-11**
Client ID: **BORING 8 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:45**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 10:00**
File ID: **7M53703**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	159		133	66.6
Acenaphthylene	208-96-8		U	133	66.6
Acenaphthene	83-32-9	458		133	66.6
Fluorene	86-73-7	623		133	66.6
Phenanthrene	85-01-8	6970		133	66.6
Anthracene	120-12-7	1850		133	66.6
Fluoranthene	206-44-0	8600		133	66.6
Pyrene	129-00-0	6610		133	66.6

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-11**
Client ID: **BORING 8 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 13:45**
Sample Tag: **DL02**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **50**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 10:00**
File ID: **7M53703**
Percent Solid: **89.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Benzo(a)anthracene	56-55-3	3610		133	66.6
Chrysene	218-01-9	3480		133	66.6
Benzo(b)fluoranthene	205-99-2	3040		133	66.6
Benzo(k)fluoranthene	207-08-9	2840		133	66.6
Benzo(a)pyrene	50-32-8	2900		133	66.6
Indeno(1,2,3-cd)pyrene	193-39-5	1670		133	66.6
Dibenzo(a,h)anthracene	53-70-3	575		133	66.6
Benzo(g,h,i)perylene	191-24-2	1680		133	66.6
1-Methylnaphthalene	90-12-0	140		133	66.6
2-Methylnaphthalene	91-57-6	173		133	66.6

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5		23	120	DL
2-Fluorobiphenyl		30	115	DL
p-Terphenyl-d14		18	137	DL

U Not detected at or above adjusted sample detection limit
DL Surrogate or spike compound was diluted out

Sample Number: **L11120198-11**
Client ID: **BORING 8 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 13:45**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0129**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.6		1.00	1.00

Sample Number: **L11120198-12**
Client ID: **BORING 9 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 09:55**
File ID: **14G36055.R**
Percent Solid: **90.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		10300	J	10900	2190
Carbon Range-C20-C34		6660	J	10900	2190

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	64.2	43	136	
Octacosane	85.7	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-12**
Client ID: **BORING 9 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 11:11**
File ID: **7M53676**
Percent Solid: **90.0**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	2.66	1.33
Acenaphthylene	208-96-8		U	2.66	1.33
Acenaphthene	83-32-9		U	2.66	1.33
Fluorene	86-73-7		U	2.66	1.33
Phenanthrene	85-01-8	11.4		2.66	1.33
Anthracene	120-12-7	2.82		2.66	1.33
Fluoranthene	206-44-0	17.5		2.66	1.33
Pyrene	129-00-0	13.6		2.66	1.33
Benzo(a)anthracene	56-55-3	7.42		2.66	1.33
Chrysene	218-01-9	9.52		2.66	1.33
Benzo(b)fluoranthene	205-99-2	7.35		2.66	1.33
Benzo(k)fluoranthene	207-08-9	5.62		2.66	1.33
Benzo(a)pyrene	50-32-8	5.52		2.66	1.33
Indeno(1,2,3-cd)pyrene	193-39-5	3.62		2.66	1.33
Dibenzo(a,h)anthracene	53-70-3	1.76	J	2.66	1.33
Benzo(g,h,i)perylene	191-24-2	4.85		2.66	1.33
1-Methylnaphthalene	90-12-0		U	2.66	1.33
2-Methylnaphthalene	91-57-6		U	2.66	1.33

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	50.8	23	120	
2-Fluorobiphenyl	42.0	30	115	
p-Terphenyl-d14	54.8	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-12**
Client ID: **BORING 9 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:00**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0130**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.0		1.00	1.00

Sample Number: **L11120198-13**
Client ID: **BORING 10 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 10:42**
File ID: **14G36056.R**
Percent Solid: **90.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		26800		10600	2130
Carbon Range-C20-C34		69400		10600	2130

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	74.7	43	136	
Octacosane	90.3	25	162	

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-13**
Client ID: **BORING 10 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 13:52**
File ID: **7M53682**
Percent Solid: **90.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	55.1		2.72	1.36
Acenaphthylene	208-96-8	3.72		2.72	1.36
Acenaphthene	83-32-9	45.7		2.72	1.36
Fluorene	86-73-7	58.0		2.72	1.36
Phenanthrene	85-01-8	662	I	2.72	1.36
Anthracene	120-12-7	181		2.72	1.36
Fluoranthene	206-44-0	843	I	2.72	1.36
Pyrene	129-00-0	677	I	2.72	1.36
Benzo(a)anthracene	56-55-3	487		2.72	1.36
Chrysene	218-01-9	431		2.72	1.36
Benzo(b)fluoranthene	205-99-2	377		2.72	1.36
Benzo(k)fluoranthene	207-08-9	336		2.72	1.36
Benzo(a)pyrene	50-32-8	385		2.72	1.36
Indeno(1,2,3-cd)pyrene	193-39-5	224		2.72	1.36
Dibenzo(a,h)anthracene	53-70-3	77.8		2.72	1.36
Benzo(g,h,i)perylene	191-24-2	216		2.72	1.36
1-Methylnaphthalene	90-12-0	69.0		2.72	1.36
2-Methylnaphthalene	91-57-6	87.9		2.72	1.36

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	46.1	23	120	
2-Fluorobiphenyl	41.3	30	115	
p-Terphenyl-d14	88.3	18	137	

I Semiquantitative result (out of instrument calibration range)

Sample Number: **L11120198-13**
Client ID: **BORING 10 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:15**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 09:06**
File ID: **7M53701**
Percent Solid: **90.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	58.9		27.2	13.6
Acenaphthylene	208-96-8		U	27.2	13.6
Acenaphthene	83-32-9	50.6		27.2	13.6
Fluorene	86-73-7	60.6		27.2	13.6
Phenanthrene	85-01-8	777		27.2	13.6
Anthracene	120-12-7	255		27.2	13.6
Fluoranthene	206-44-0	1130		27.2	13.6
Pyrene	129-00-0	894		27.2	13.6
Benzo(a)anthracene	56-55-3	572		27.2	13.6
Chrysene	218-01-9	516		27.2	13.6
Benzo(b)fluoranthene	205-99-2	437		27.2	13.6
Benzo(k)fluoranthene	207-08-9	439		27.2	13.6
Benzo(a)pyrene	50-32-8	461		27.2	13.6
Indeno(1,2,3-cd)pyrene	193-39-5	263		27.2	13.6
Dibenzo(a,h)anthracene	53-70-3	86.2		27.2	13.6
Benzo(g,h,i)perylene	191-24-2	274		27.2	13.6
1-Methylnaphthalene	90-12-0	78.0		27.2	13.6
2-Methylnaphthalene	91-57-6	91.0		27.2	13.6

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	45.5	23	120	
2-Fluorobiphenyl	47.9	30	115	
p-Terphenyl-d14	84.3	18	137	

U Not detected at or above adjusted sample detection limit

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-13**
Client ID: **BORING 10 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0131**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.3		1.00	1.00

Sample Number: **L11120198-14**
Client ID: **BORING 10 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 11:29**
File ID: **14G36057.R**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		19900		11000	2190
Carbon Range-C20-C34		15600		11000	2190

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	65.0	43	136	
Octacosane	91.6	25	162	

Sample Number: **L11120198-14**
Client ID: **BORING 10 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 11:38**
File ID: **7M53677**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	2.70	1.35
Acenaphthylene	208-96-8		U	2.70	1.35
Acenaphthene	83-32-9		U	2.70	1.35
Fluorene	86-73-7		U	2.70	1.35
Phenanthrene	85-01-8	16.9		2.70	1.35
Anthracene	120-12-7	16.4		2.70	1.35
Fluoranthene	206-44-0	5.38		2.70	1.35
Pyrene	129-00-0	6.09		2.70	1.35
Benzo(a)anthracene	56-55-3	2.34	J	2.70	1.35
Chrysene	218-01-9	7.36		2.70	1.35
Benzo(b)fluoranthene	205-99-2		U	2.70	1.35
Benzo(k)fluoranthene	207-08-9		U	2.70	1.35
Benzo(a)pyrene	50-32-8		U	2.70	1.35
Indeno(1,2,3-cd)pyrene	193-39-5		U	2.70	1.35
Dibenzo(a,h)anthracene	53-70-3		U	2.70	1.35
Benzo(g,h,i)perylene	191-24-2	5.43		2.70	1.35
1-Methylnaphthalene	90-12-0	4.98		2.70	1.35
2-Methylnaphthalene	91-57-6	4.37		2.70	1.35

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	56.1	23	120	
2-Fluorobiphenyl	47.2	30	115	
p-Terphenyl-d14	60.4	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-14**
Client ID: **BORING 10 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:15**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0132**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.2		1.00	1.00

Sample Number: **L11120198-15**
Client ID: **BORING 11 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 12:16**
File ID: **14G36058.R**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		26300		10200	2040
Carbon Range-C20-C34		112000		10200	2040

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	59.8	43	136	
Octacosane	98.1	25	162	

Sample Number: **L11120198-15**
Client ID: **BORING 11 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:30**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **5**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 15:13**
File ID: **7M53685**
Percent Solid: **94.6**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	17.9		12.8	6.39
Acenaphthylene	208-96-8	7.95	J	12.8	6.39
Acenaphthene	83-32-9	55.0		12.8	6.39
Fluorene	86-73-7	73.6		12.8	6.39
Phenanthrene	85-01-8	964		12.8	6.39
Anthracene	120-12-7	241		12.8	6.39
Fluoranthene	206-44-0	1610		12.8	6.39
Pyrene	129-00-0	1290		12.8	6.39
Benzo(a)anthracene	56-55-3	788		12.8	6.39
Chrysene	218-01-9	782		12.8	6.39
Benzo(b)fluoranthene	205-99-2	745		12.8	6.39
Benzo(k)fluoranthene	207-08-9	645		12.8	6.39
Benzo(a)pyrene	50-32-8	683		12.8	6.39
Indeno(1,2,3-cd)pyrene	193-39-5	408		12.8	6.39
Dibenzo(a,h)anthracene	53-70-3	139		12.8	6.39
Benzo(g,h,i)perylene	191-24-2	405		12.8	6.39
1-Methylnaphthalene	90-12-0	23.9		12.8	6.39
2-Methylnaphthalene	91-57-6	28.0		12.8	6.39

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	54.0	23	120	
2-Fluorobiphenyl	50.1	30	115	
p-Terphenyl-d14	79.0	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-15**
Client ID: **BORING 11 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0133**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	94.6		1.00	1.00

Sample Number: **L11120198-16**
Client ID: **BORING 11 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **12/13/2011 17:02**
Run Date: **12/14/2011 15:52**
File ID: **14G36139.R**
Percent Solid: **90.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		7510	J	10800	2160
Carbon Range-C20-C34		18100		10800	2160

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	73.5	43	136	
Octacosane	109	25	162	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-16**
Client ID: **BORING 11 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 13:25**
File ID: **7M53681**
Percent Solid: **90.3**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	4.53		2.65	1.33
Acenaphthylene	208-96-8	1.70	J	2.65	1.33
Acenaphthene	83-32-9	40.6		2.65	1.33
Fluorene	86-73-7	45.3		2.65	1.33
Phenanthrene	85-01-8	421		2.65	1.33
Anthracene	120-12-7	132		2.65	1.33
Fluoranthene	206-44-0	478		2.65	1.33
Pyrene	129-00-0	373		2.65	1.33
Benzo(a)anthracene	56-55-3	233		2.65	1.33
Chrysene	218-01-9	207		2.65	1.33
Benzo(b)fluoranthene	205-99-2	172		2.65	1.33
Benzo(k)fluoranthene	207-08-9	156		2.65	1.33
Benzo(a)pyrene	50-32-8	174		2.65	1.33
Indeno(1,2,3-cd)pyrene	193-39-5	97.9		2.65	1.33
Dibenzo(a,h)anthracene	53-70-3	43.8		2.65	1.33
Benzo(g,h,i)perylene	191-24-2	97.2		2.65	1.33
1-Methylnaphthalene	90-12-0	5.68		2.65	1.33
2-Methylnaphthalene	91-57-6	6.06		2.65	1.33

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	66.5	23	120	
2-Fluorobiphenyl	53.2	30	115	
p-Terphenyl-d14	65.6	18	137	

J Estimated value; the analyte concentration was less than the RL/LOQ.

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-16**
Client ID: **BORING 11 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:30**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0134**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.3		1.00	1.00

Sample Number: **L11120198-17**
Client ID: **BORING 12 0-2**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **09/20/2011 14:40**
Run Date: **12/09/2011 13:51**
File ID: **14G36060.R**
Percent Solid: **93.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		26400		10300	2060
Carbon Range-C20-C34		132000		10300	2060

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	72.5	43	136	
Octacosane	92.3	25	162	

Sample Number: **L11120198-17**
Client ID: **BORING 12 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 14:19**
File ID: **7M53683**
Percent Solid: **93.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	122		2.55	1.27
Acenaphthylene	208-96-8	7.81		2.55	1.27
Acenaphthene	83-32-9	121		2.55	1.27
Fluorene	86-73-7	135		2.55	1.27
Phenanthrene	85-01-8	1250	I	2.55	1.27
Anthracene	120-12-7	282		2.55	1.27
Fluoranthene	206-44-0	1340	I	2.55	1.27
Pyrene	129-00-0	1170	I	2.55	1.27
Benzo(a)anthracene	56-55-3	795	I	2.55	1.27
Chrysene	218-01-9	759	I	2.55	1.27
Benzo(b)fluoranthene	205-99-2	578	I	2.55	1.27
Benzo(k)fluoranthene	207-08-9	617	I	2.55	1.27
Benzo(a)pyrene	50-32-8	628	I	2.55	1.27
Indeno(1,2,3-cd)pyrene	193-39-5	376		2.55	1.27
Dibenzo(a,h)anthracene	53-70-3	134		2.55	1.27
Benzo(g,h,i)perylene	191-24-2	348		2.55	1.27
1-Methylnaphthalene	90-12-0	130		2.55	1.27
2-Methylnaphthalene	91-57-6	176		2.55	1.27

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	59.9	23	120	
2-Fluorobiphenyl	54.5	30	115	
p-Terphenyl-d14	95.3	18	137	

I Semiquantitative result (out of instrument calibration range)

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-17**
Client ID: **BORING 12 0-2**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:40**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 09:32**
File ID: **7M53702**
Percent Solid: **93.8**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	138		25.5	12.7
Acenaphthylene	208-96-8		U	25.5	12.7
Acenaphthene	83-32-9	124		25.5	12.7
Fluorene	86-73-7	156		25.5	12.7
Phenanthrene	85-01-8	1850		25.5	12.7
Anthracene	120-12-7	435		25.5	12.7
Fluoranthene	206-44-0	2370		25.5	12.7
Pyrene	129-00-0	1820		25.5	12.7
Benzo(a)anthracene	56-55-3	1030		25.5	12.7
Chrysene	218-01-9	1020		25.5	12.7
Benzo(b)fluoranthene	205-99-2	873		25.5	12.7
Benzo(k)fluoranthene	207-08-9	829		25.5	12.7
Benzo(a)pyrene	50-32-8	864		25.5	12.7
Indeno(1,2,3-cd)pyrene	193-39-5	513		25.5	12.7
Dibenzo(a,h)anthracene	53-70-3	174		25.5	12.7
Benzo(g,h,i)perylene	191-24-2	520		25.5	12.7
1-Methylnaphthalene	90-12-0	157		25.5	12.7
2-Methylnaphthalene	91-57-6	195		25.5	12.7

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	58.6	23	120	
2-Fluorobiphenyl	64.5	30	115	
p-Terphenyl-d14	83.9	18	137	

U Not detected at or above adjusted sample detection limit

Sample Number: **L11120198-17**
Client ID: **BORING 12 0-2**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0135**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	93.8		1.00	1.00

Sample Number: **L11120198-18**
Client ID: **BORING 12 2-4**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **12/13/2011 17:02**
Run Date: **12/14/2011 11:55**
File ID: **14G36134.R**
Percent Solid: **90.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		63600		10600	2130
Carbon Range-C20-C34		62100		10600	2130

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	92.4	43	136	
Octacosane	144	25	162	

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-18**
Client ID: **BORING 12 2-4**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 12:32**
File ID: **7M53679**
Percent Solid: **90.1**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	2.76	1.38
Acenaphthylene	208-96-8		U	2.76	1.38
Acenaphthene	83-32-9	1.61	J	2.76	1.38
Fluorene	86-73-7		U	2.76	1.38
Phenanthrene	85-01-8	35.5		2.76	1.38
Anthracene	120-12-7		U	2.76	1.38
Fluoranthene	206-44-0	8.44		2.76	1.38
Pyrene	129-00-0	10.2		2.76	1.38
Benzo(a)anthracene	56-55-3	3.34		2.76	1.38
Chrysene	218-01-9	9.98		2.76	1.38
Benzo(b)fluoranthene	205-99-2		U	2.76	1.38
Benzo(k)fluoranthene	207-08-9		U	2.76	1.38
Benzo(a)pyrene	50-32-8		U	2.76	1.38
Indeno(1,2,3-cd)pyrene	193-39-5	1.71	J	2.76	1.38
Dibenzo(a,h)anthracene	53-70-3		U	2.76	1.38
Benzo(g,h,i)perylene	191-24-2	9.01		2.76	1.38
1-Methylnaphthalene	90-12-0	17.7		2.76	1.38
2-Methylnaphthalene	91-57-6	16.3		2.76	1.38

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	58.9	23	120	
2-Fluorobiphenyl	47.9	30	115	
p-Terphenyl-d14	73.3	18	137	

U Not detected at or above adjusted sample detection limit
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-18**
Client ID: **BORING 12 2-4**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 14:40**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0136**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	90.1		1.00	1.00

Sample Number: **L11120198-19**
Client ID: **DUPLICATE**
Matrix: **Soil**
Workgroup Number: **WG384319**
Collect Date: **12/05/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8015C**
Analyst: **HAV**
Dilution: **1**
Units: **ug/kg**

Instrument: **HP14**
Prep Date: **12/08/2011 08:30**
Cal Date: **12/13/2011 17:02**
Run Date: **12/14/2011 12:42**
File ID: **14G36135.R**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Carbon Range-C10-C20		15000		10700	2140
Carbon Range-C20-C34		33200		10700	2140

Surrogate	% Recovery	Lower	Upper	Qual
o-Terphenyl	101	43	136	
Octacosane	139	25	162	

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-19**
Client ID: **DUPLICATE**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **1**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/12/2011 12:59**
File ID: **7M53680**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3	9.63		2.76	1.38
Acenaphthylene	208-96-8	1.54	J	2.76	1.38
Acenaphthene	83-32-9	47.6		2.76	1.38
Fluorene	86-73-7	50.6		2.76	1.38
Phenanthrene	85-01-8	468		2.76	1.38
Anthracene	120-12-7	131		2.76	1.38
Fluoranthene	206-44-0	620	I	2.76	1.38
Pyrene	129-00-0	497		2.76	1.38
Benzo(a)anthracene	56-55-3	346		2.76	1.38
Chrysene	218-01-9	300		2.76	1.38
Benzo(b)fluoranthene	205-99-2	265		2.76	1.38
Benzo(k)fluoranthene	207-08-9	245		2.76	1.38
Benzo(a)pyrene	50-32-8	279		2.76	1.38
Indeno(1,2,3-cd)pyrene	193-39-5	161		2.76	1.38
Dibenzo(a,h)anthracene	53-70-3	55.5		2.76	1.38
Benzo(g,h,i)perylene	191-24-2	163		2.76	1.38
1-Methylnaphthalene	90-12-0	8.49		2.76	1.38
2-Methylnaphthalene	91-57-6	7.67		2.76	1.38

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	68.6	23	120	
2-Fluorobiphenyl	52.9	30	115	
p-Terphenyl-d14	60.5	18	137	

I Semiquantitative result (out of instrument calibration range)
J Estimated value; the analyte concentration was less than the RL/LOQ.

Sample Number: **L11120198-19**
Client ID: **DUPLICATE**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 00:01**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 08:39**
File ID: **7M53700**
Percent Solid: **89.2**

Analyte	CAS. Number	Result	Qual	RL	MDL
Naphthalene	91-20-3		U	27.6	13.8
Acenaphthylene	208-96-8		U	27.6	13.8
Acenaphthene	83-32-9	46.1		27.6	13.8
Fluorene	86-73-7	52.5		27.6	13.8
Phenanthrene	85-01-8	513		27.6	13.8
Anthracene	120-12-7	182		27.6	13.8
Fluoranthene	206-44-0	774		27.6	13.8
Pyrene	129-00-0	605		27.6	13.8
Benzo(a)anthracene	56-55-3	382		27.6	13.8
Chrysene	218-01-9	342		27.6	13.8
Benzo(b)fluoranthene	205-99-2	260		27.6	13.8
Benzo(k)fluoranthene	207-08-9	326		27.6	13.8
Benzo(a)pyrene	50-32-8	315		27.6	13.8
Indeno(1,2,3-cd)pyrene	193-39-5	172		27.6	13.8
Dibenzo(a,h)anthracene	53-70-3	58.1		27.6	13.8
Benzo(g,h,i)perylene	191-24-2	181		27.6	13.8
1-Methylnaphthalene	90-12-0		U	27.6	13.8
2-Methylnaphthalene	91-57-6		U	27.6	13.8

Report Number: **L11120198**
Report Date : **December 20, 2011**

Sample Number: **L11120198-19**
Client ID: **DUPLICATE**
Matrix: **Soil**
Workgroup Number: **WG384202**
Collect Date: **12/05/2011 00:01**
Sample Tag: **DL01**

PrePrep Method: **NONE**
Prep Method: **3545**
Analytical Method: **8270C**
Analyst: **CAA**
Dilution: **10**
Units: **ug/kg**

Instrument: **HPMS7**
Prep Date: **12/08/2011 08:41**
Cal Date: **12/09/2011 11:14**
Run Date: **12/13/2011 08:39**
File ID: **7M53700**
Percent Solid: **89.2**

Surrogate	% Recovery	Lower	Upper	Qual
Nitrobenzene-d5	63.2	23	120	
2-Fluorobiphenyl	59.4	30	115	
p-Terphenyl-d14	65.2	18	137	

U **Not detected at or above adjusted sample detection limit**

Sample Number: **L11120198-19**
Client ID: **DUPLICATE**
Matrix: **Soil**
Workgroup Number: **WG384177**
Collect Date: **12/05/2011 00:01**
Sample Tag: **01**

PrePrep Method: **NONE**
Prep Method: **D2216-90**
Analytical Method: **D2216-90**
Analyst: **JDH**
Dilution: **1**
Units: **weight %**

Instrument: **BAL001**
Prep Date: **12/09/2011 09:20**
Cal Date:
Run Date: **12/09/2011 09:20**
File ID: **B1.384177-0137**

Analyte	CAS. Number	Result	Qual	RL	MDL
Percent Solids	10-02-6	89.2		1.00	1.00

Login Number: L11120198
Department: Semivolatiles
Analyst: Cassie A. Augenstein

METHOD

Preparation 3545

Analysis SW-846 8270C

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: Samples 03-05, 07, 11 and 15 were analyzed at a dilution due to the appearance and viscosity of the extracts. Samples 03-05, 07 and 11 required additional dilutions to be within calibration range. Samples 06, 13, 17 and 19 were analyzed a dilution to be within calibration range.

Internal Standards: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and

benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Managing Director or the QAO will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 39872
Approved By: Mike Cochran

Login Number: L11120198
Department: General Chromatography
Analyst: Hema Vilasagar

Preparation 3545

Analysis SW-846 8015

HOLDING TIMES

Sample Preparation: All holding times were met.

Sample Analysis: All holding times were met.

PREPARATION

Sample preparation proceeded normally.

CALIBRATION

Initial Calibration: For all compounds that yielded a %RSD greater than 15%, linear or higher order equations were applied. All acceptance criteria were met.

Alternate Source Standards: All acceptance criteria were met.

Continuing Calibration and Tune: All acceptance criteria were met.

BATCH QA/QC

Method Blank: All acceptance criteria were met.

Laboratory Control Sample: All acceptance criteria were met.

Matrix Spikes: There were no MS/MSD results associated with this sample delivery group, due to insufficient volume of sample. The laboratory included an LCS and LCS duplicate in the preparation batch in lieu of the NELAC prescribed MS/MSD. Microbac recommends site specific MS/MSD samples to avoid possible data qualification.

SAMPLES

Samples: All acceptance criteria were met.

Surrogates: All acceptance criteria were met.

Manual Integration Reason Codes

Reason #1: Data System Fails to Select Correct Peak In some cases the chromatography system selects and integrates the 'wrong peak'. In this case the analyst must correct the selection and force the system to integrate the proper peak. Other times the system may miss the peak completely.

Reason #2: Data System Splits the Peak Incorrectly or Integrates a False Peak as a Rider Peak This phenomena is common at low concentrations where the signal:noise ratio is low. A single compound (peak) is incorrectly split into multiple peaks or integrated as a main peak with one or more rider peaks resulting in low area counts for the target compound.

Reason #3: Improperly Integrated Isomers and/or coeluting compounds. This system often fails to distinguish coeluting compounds and or isomers. The integration areas and concentrations are wrong, and they must be corrected by manual integration. Prime examples are benzo(k)fluoranthene and benzo(b)fluoranthene which are often unresolved and integrated improperly when both are present at low concentrations in standards or samples.

Reason #4: System Establishes Incorrect Baseline There are numerous situations in chromatography where the system establishes the baseline incorrectly. Some baseline errors will be obvious to the analyst and should be corrected via manual procedures.

Reason #5: Miscellaneous Other situations involving integration errors may require in-depth review and technical judgment. These cases should be brought to the attention of the laboratory management. If the form of manual integration is not clearly covered by these four cases, then review and approval by the Laboratory Director or the QA/QC Supervisor will be required.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Microbac Laboratories Inc., both technically and for completeness, except for the conditions noted above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Narrative ID: 40052
Approved By: Mike Cochran

Microbac Laboratories Inc.
Ohio Valley Division Analyst List
December 20, 2011

ADC – ANTHONY D. CANTER	AJF – AMANDA J. FICKIESEN	ALB – ANNIE L. BROWN
ALV – AMY L. VALENTINE	AML – TONY M. LONG	AZH – AFTER HOURS
BLG – BRENDA L. GREENWALT	BRG – BRENDA R. GREGORY	CAA – CASSIE A. AUGENSTEIN
CAF – CHERYL A. FLOWERS	CEB – CHAD E. BARNES	CLC – CHRYS L. CRAWFORD
CLS – CARA L. STRICKLER	CLW – CHARISSA L. WINTERS	CPD – CHAD P. DAVIS
CS – CODY M. STRAHLER	CSH – CHRIS S. HILL	DDE – DEBRA D. ELLIOTT
DEV – DAVID E. VANDENBERG	DGB – DOUGLAS G. BUTCHER	DHG – DEBORAH H. GRIFFITHS
DIH – DEANNA I. HESSON	DLB – DAVID L. BUMGARNER	DLP – DOROTHY L. PAYNE
DLR – DIANNA L. RAUCH	DSM – DAVID S. MOSSOR	ECL – ERIC C. LAWSON
EDL – ERIN D. LONG	ERP – ERIN R. PORTER	FJB – FRANCES J. BOLDEN
HAV – HEMA VILASAGAR	HJR – HOLLY J. REED	JAL – JOHN A. LENT
JBK – JEREMY B. KINNEY	JDH – JUSTIN D. HESSON	JKS – JANE K. SCHAAD
JLL – JOHN L. LENT	JWR – JOHN W. RICHARDS	JWS – JACK W. SHEAVES
JYH – JI Y. HU	KEB – KATIE E. BARNES	KHR – KIM H. RHODES
KRA – KATHY R. ALBERTSON	LKN – LINDA K. NEDEFF	LSB – LESLIE S. BUCINA
MDA – MIKE D. ALBERTSON	MDC – MIKE D. COCHRAN	MES – MARY E. SCHILLING
MMB – MAREN M. BEERY	MRT – MICHELLE R. TAYLOR	MSW – MATT S. WILSON
PDM – PIERCE D. MORRIS	PWD – PAUL W. DENT	RAH – ROY A. HALSTEAD
REK – BOB E. KYER	RLB – BOB BUCHANAN	RLK – ROBIN L. KLINGER
RWC – RODNEY W. CAMPBELL	SJP – SUZANNE J. PAUGH	SLM – STEPHANIE L. MOSSBURG
SLP – SHERI L. PFALZGRAF	TIP – TAE I. PARRISH	TMB – TIFFANY M. BAILEY
TMM – TAMMY M. MORRIS	VC – VICKI COLLIER	WJB – WILL J. BEASLEY
WTD – WADE T. DELONG		

Microbac Laboratories Inc.
List of Valid Qualifiers
December 20, 2011

Qualkey: STD

Qualifier	Description
*	Surrogate or spike compound out of range
+	Correlation coefficient for the MSA is less than 0.995
<	Result is less than the associated numerical value.
>	Result is greater than the associated numerical value.
A	See the report narrative
B	Analyte present in method blank
B1	Target analyte detected in method blank at or above the method reporting limit
B3	Target analyte detected in calibration blank at or above the method reporting limit
B4	The BOD unseeded dilution water blank exceeded 0.2 mg/L
C	Confirmed by GC/MS
CG	Confluent growth
DL	Surrogate or spike compound was diluted out
E	Estimated concentration due to sample matrix interference
EDL	Elevated sample reporting limits, presence of non-target analytes
EMPC	Estimated Maximum Possible Concentration
F, S	Estimated result below quantitation limit; method of standard additions(MSA)
FL	Free Liquid
H1	Sample analysis performed past holding time.
I	Semiquantitative result (out of instrument calibration range)
J	Estimated value; the analyte concentration was less than the RL/LOQ.
J,B	Analyte detected in both the method blank and sample above the MDL.
J,P	Estimate; columns don't agree to within 40%
J,S	Estimated concentration; analyzed by method of standard addition (MSA)
L	Sample reporting limits elevated due to matrix interference
L1	The associated blank spike (LCS) recovery was above the laboratory acceptance limits.
L2	The associated blank spike (LCS) recovery was below the laboratory acceptance limits.
M	Matrix effect; the concentration is an estimate due to matrix effect.
N	Tentatively identified compound(TIC)
NA	Not applicable
ND	Not detected at or above the reporting limit (RL).
ND, L	Not detected; sample reporting limit (RL) elevated due to interference
ND, S	Not detected; analyzed by method of standard addition (MSA)
NF	Not found by library search
NFL	No free liquid
NI	Non-ignitable
NR	Analyte is not required to be analyzed
NS	Not spiked
P	Concentrations >40% difference between the two GC columns
Q	One or more quality control criteria failed. See narrative.
QNS	Quantity of sample not sufficient to perform analysis
RA	Reanalysis confirms reported results
RE	Reanalysis confirms sample matrix interference
S	Analyzed by method of standard addition (MSA)
SMI	Sample matrix interference on surrogate
SP	Reported results are for spike compounds only
TIC	Library Search Compound
TNTC	Too numerous to count
U	Analyte was not detected. The concentration is below the reported MDL.
UJ	Undetected; the MDL and RL are estimated due to quality control discrepancies.
UJ	Undetected; the analyte was analyzed for, but not detected.
UQ	Undetected; the analyte was analyzed for, but not detected.
W	Post-digestion spike for furnace AA out of control limits
X	Exceeds regulatory limit
X, S	Exceeds regulatory limit; method of standard additions (MSA)
Z	Cannot be resolved from isomer - see below

*****Special Notes for Organic Analytes**

1. Acrolein and acrylonitrile by method 624 are semi-quantitative screens only.
2. 1,2-Diphenylhydrazine is unstable and is reported as azobenzene.
3. N-nitrosodiphenylamine cannot be separated from diphenylamine.
4. 3-Methylphenol and 4-Methylphenol are unresolvable compounds.
5. m-Xylene and p-Xylene are unresolvable compounds.
6. The reporting limits for Appendix II/IX compounds by method 8270 are based on EPA estimated PQLs referenced in 40 CFR Part 264, Appendix IX. They are not always achievable for every compound and are matrix dependent.

Organic QA/QC

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120198
Work Group: WG384202
Blank File ID: 7M53654
Blank Sample ID: WG384079-01
Prep Date: 12/08/11 08:41
Instrument ID: HPMS7
Analyzed Date: 12/09/11 12:09
Method: 8270C
Analyst: CAA

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384079-02	7M53655	12/09/11 12:35	01
LCS2	WG384079-03	7M53656	12/09/11 13:02	01
BORING 1 2-4	L11120198-01	7M53662	12/09/11 15:44	01
BORING 2 2-4	L11120198-02	7M53663	12/09/11 16:10	01
BORING 5 2-4	L11120198-08	7M53664	12/09/11 16:38	01
BORING 6 2-4	L11120198-09	7M53665	12/09/11 17:05	01
BORING 4 2-4	L11120198-06	7M53666	12/09/11 17:31	01
BORING 3 2-4	L11120198-04	7M53667	12/09/11 17:58	DL01
BORING 4 0-2	L11120198-05	7M53668	12/09/11 18:25	DL01
BORING 3 0-2	L11120198-03	7M53669	12/09/11 18:52	DL01
BORING 5 0-2	L11120198-07	7M53670	12/09/11 19:19	DL01
BORING 9 2-4	L11120198-12	7M53676	12/12/11 11:11	01
BORING 10 2-4	L11120198-14	7M53677	12/12/11 11:38	01
BORING 7 2-4	L11120198-10	7M53678	12/12/11 12:05	01
BORING 12 2-4	L11120198-18	7M53679	12/12/11 12:32	01
DUPLICATE	L11120198-19	7M53680	12/12/11 12:59	01
BORING 11 2-4	L11120198-16	7M53681	12/12/11 13:25	01
BORING 10 0-2	L11120198-13	7M53682	12/12/11 13:52	01
BORING 12 0-2	L11120198-17	7M53683	12/12/11 14:19	01
BORING 8 2-4	L11120198-11	7M53684	12/12/11 14:45	DL01
BORING 11 0-2	L11120198-15	7M53685	12/12/11 15:13	DL01
BORING 4 2-4	L11120198-06	7M53689	12/12/11 17:00	DL01
BORING 3 2-4	L11120198-04	7M53690	12/12/11 17:27	DL02
BORING 4 0-2	L11120198-05	7M53691	12/12/11 17:54	DL02
BORING 3 0-2	L11120198-03	7M53692	12/12/11 18:21	DL02
BORING 5 0-2	L11120198-07	7M53693	12/12/11 18:49	DL02
DUPLICATE	L11120198-19	7M53700	12/13/11 08:39	DL01
BORING 10 0-2	L11120198-13	7M53701	12/13/11 09:06	DL01
BORING 12 0-2	L11120198-17	7M53702	12/13/11 09:32	DL01
BORING 8 2-4	L11120198-11	7M53703	12/13/11 10:00	DL02

Report Name: BLANK_SUMMARY
PDF File ID: 2253570
Report generated 12/14/2011 11:32

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11120198 Prep Date: 12/08/11 08:41 Sample ID: WG384079-01
Instrument ID: HPMS7 Run Date: 12/09/11 12:09 Prep Method: 3545
File ID: 7M53654 Analyst: CAA Method: 8270C
Workgroup (AAB#): WG384202 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HPMS7-09-DEC-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Naphthalene	1.25	2.50	1.25	1	U
Acenaphthylene	1.25	2.50	1.25	1	U
Acenaphthene	1.25	2.50	1.25	1	U
Fluorene	1.25	2.50	1.25	1	U
Phenanthrene	1.25	2.50	1.25	1	U
Anthracene	1.25	2.50	1.25	1	U
Fluoranthene	1.25	2.50	1.25	1	U
Pyrene	1.25	2.50	1.25	1	U
Benzo(a)anthracene	1.25	2.50	1.25	1	U
Chrysene	1.25	2.50	1.25	1	U
Benzo(b)fluoranthene	1.25	2.50	1.25	1	U
Benzo(k)fluoranthene	1.25	2.50	1.25	1	U
Benzo(a)pyrene	1.25	2.50	1.25	1	U
Indeno(1,2,3-cd)pyrene	1.25	2.50	1.25	1	U
Dibenzo(a,h)anthracene	1.25	2.50	1.25	1	U
Benzo(g,h,i)perylene	1.25	2.50	1.25	1	U
1-Methylnaphthalene	1.25	2.50	1.25	1	U
2-Methylnaphthalene	1.25	2.50	1.25	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
Nitrobenzene-d5	57.1	23	-	120	PASS
2-Fluorobiphenyl	57.2	30	-	115	PASS
p-Terphenyl-d14	85.3	18	-	137	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2250763
14-DEC-2011 11:32

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11120198 Analyst: CAA Prep Method: 3545
Instrument ID: HPMS7 Matrix: Soil Method: 8270C
Workgroup (AAB#): WG384202 Units: ug/kg
QC Key: STD Lot #: STD48047

Sample ID: WG384079-02 LCS File ID: 7M53655 Run Date: 12/09/2011 12:35
Sample ID: WG384079-03 LCS2 File ID: 7M53656 Run Date: 12/09/2011 13:02

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Naphthalene	50.0	26.1	52.2	50.0	25.0	49.9	4.49	34 - 91	40	
Acenaphthylene	50.0	25.7	51.5	50.0	25.8	51.6	0.217	32 - 94	40	
Acenaphthene	50.0	26.0	52.0	50.0	26.2	52.4	0.809	30 - 97	40	
Fluorene	50.0	25.4	50.9	50.0	27.1	54.1	6.18	31 - 96	40	
Phenanthrene	50.0	27.6	55.1	50.0	30.4	60.8	9.78	36 - 104	40	
Anthracene	50.0	27.1	54.2	50.0	30.6	61.2	12.1	36 - 117	40	
Fluoranthene	50.0	39.5	79.1	50.0	38.9	77.8	1.69	54 - 125	40	
Pyrene	50.0	41.8	83.7	50.0	41.1	82.2	1.76	54 - 119	40	
Benzo(a)anthracene	50.0	41.3	82.5	50.0	39.6	79.2	4.13	60 - 128	40	
Chrysene	50.0	42.4	84.9	50.0	40.7	81.3	4.27	60 - 127	40	
Benzo(b)fluoranthene	50.0	42.3	84.7	50.0	40.7	81.4	3.99	55 - 132	40	
Benzo(k)fluoranthene	50.0	40.5	81.1	50.0	38.0	76.0	6.43	51 - 128	40	
Benzo(a)pyrene	50.0	42.0	83.9	50.0	40.7	81.5	2.98	59 - 134	40	
Indeno(1,2,3-cd)pyrene	50.0	42.5	85.1	50.0	40.3	80.7	5.27	58 - 134	40	
Dibenzo(a,h)anthracene	50.0	40.9	81.8	50.0	38.8	77.7	5.20	58 - 137	40	
Benzo(g,h,i)perylene	50.0	42.9	85.8	50.0	40.7	81.4	5.31	57 - 132	40	
1-Methylnaphthalene	50.0	25.0	49.9	50.0	24.1	48.2	3.54	28 - 94	40	
2-Methylnaphthalene	50.0	27.4	54.8	50.0	26.3	52.6	4.01	29 - 98	40	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
Nitrobenzene-d5	56.5	52.8	23 - 120	PASS
2-Fluorobiphenyl	51.4	51.6	30 - 115	PASS
p-Terphenyl-d14	76.5	74.8	18 - 137	PASS

* EXCEEDS %REC LIMIT

EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2250764
Report generated: 12/14/2011 11:33

Login Number: L11120198
Instrument Id: HPMS7
Workgroup (AAB#): WG384202

Method: 8270L
CAL ID: HPMS7-09-DEC-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2	3
L11120198-01	1.00	01	51.8	57.6	73.8
L11120198-02	1.00	01	46.9	52.6	77.7
L11120198-03	5.00	DL01	61.5	44.9	113
L11120198-03	50.0	DL02	DL	DL	DL
L11120198-04	5.00	DL01	74.3	63.2	110
L11120198-04	50.0	DL02	DL	DL	DL
L11120198-05	5.00	DL01	66.7	63.2	112
L11120198-05	50.0	DL02	DL	DL	DL
L11120198-06	1.00	01	51.1	59.7	85.4
L11120198-06	10.0	DL01	56.9	54.7	81.7
L11120198-07	5.00	DL01	65.5	63.0	104
L11120198-07	50.0	DL02	DL	DL	DL
L11120198-08	1.00	01	44.6	63.0	59.9
L11120198-09	1.00	01	50.5	60.6	81.7
L11120198-10	1.00	01	46.1	56.8	67.1
L11120198-11	5.00	DL01	45.1	41.9	98.0
L11120198-11	50.0	DL02	DL	DL	DL
L11120198-12	1.00	01	42.0	50.8	54.8
L11120198-13	1.00	01	41.3	46.1	88.3
L11120198-13	10.0	DL01	47.9	45.5	84.3
L11120198-14	1.00	01	47.2	56.1	60.4
L11120198-15	5.00	DL01	50.1	54.0	79.0
L11120198-16	1.00	01	53.2	66.5	65.6
L11120198-17	1.00	01	54.5	59.9	95.3
L11120198-17	10.0	DL01	64.5	58.6	83.9
L11120198-18	1.00	01	47.9	58.9	73.3
L11120198-19	1.00	01	52.9	68.6	60.5
L11120198-19	10.0	DL01	59.4	63.2	65.2
WG384079-01	1.00	01	57.2	57.1	85.3
WG384079-02	1.00	01	51.4	56.5	76.5
WG384079-03	1.00	01	51.6	52.8	74.8

Surrogates	Surrogate Limits
1 - 2-Fluorobiphenyl	30 - 115
2 - Nitrobenzene-d5	23 - 120
3 - p-Terphenyl-d14	18 - 137

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2250765
Report generated: 12/14/2011 11:34

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/12/2011 Sample ID: WG384360-02

Instrument ID: HPMS7 Run Time: 09:23 Method: 8270C

File ID: 7M53672 Analyst: CAA QC Key: STD

Workgroup (AAB#): WG384202 Cal ID: HPMS7 - 09-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1040	ug/L	1.23	4.45	20	
Fluoranthene	CCC	1000	1040	ug/L	1.14	4.15	20	
Benzo[a]pyrene	CCC	1000	1060	ug/L	1.05	6.11	20	
Naphthalene		1000	1030	ug/L	0.943	3.12	20	
Acenaphthylene		1000	1040	ug/L	1.80	3.79	20	
Fluorene		1000	1040	ug/L	1.25	4.46	20	
Phenanthrene		1000	1020	ug/L	0.886	1.66	20	
Anthracene		1000	1060	ug/L	0.957	6.34	20	
Pyrene		1000	1040	ug/L	1.10	4.18	20	
Benzo[a]anthracene		1000	1030	ug/L	0.977	3.47	20	
Chrysene		1000	1050	ug/L	1.07	4.55	20	
Benzo[b]fluoranthene		1000	1080	ug/L	1.08	7.82	20	
Benzo[k]fluoranthene		1000	1000	ug/L	1.05	0.400	20	
Indeno[1,2,3-cd]pyrene		1000	1040	ug/L	1.19	4.03	20	
Dibenz[ah]anthracene		1000	1040	ug/L	1.03	3.94	20	
Benzo[ghi]perylene		1000	1040	ug/L	1.02	3.81	20	
1-Methylnaphthalene		1000	1030	ug/L	0.624	3.30	20	
2-Methylnaphthalene		1000	1040	ug/L	0.599	3.85	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2253576
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/13/2011 Sample ID: WG384502-02

Instrument ID: HPMS7 Run Time: 08:12 Method: 8270C

File ID: 7M53699 Analyst: CAA QC Key: STD

Workgroup (AAB#): WG384202 Cal ID: HPMS7 - 09-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1040	ug/L	1.22	3.52	20	
Fluoranthene	CCC	1000	1040	ug/L	1.13	3.57	20	
Benzo[a]pyrene	CCC	1000	1060	ug/L	1.05	5.70	20	
Naphthalene		1000	1020	ug/L	0.930	1.72	20	
Acenaphthylene		1000	1050	ug/L	1.82	5.05	20	
Fluorene		1000	1060	ug/L	1.27	6.16	20	
Phenanthrene		1000	1030	ug/L	0.902	3.43	20	
Anthracene		1000	1060	ug/L	0.950	5.61	20	
Pyrene		1000	1040	ug/L	1.09	3.59	20	
Benzo[a]anthracene		1000	1070	ug/L	1.01	6.50	20	
Chrysene		1000	1020	ug/L	1.05	1.89	20	
Benzo[b]fluoranthene		1000	1050	ug/L	1.05	5.08	20	
Benzo[k]fluoranthene		1000	1000	ug/L	1.05	0.390	20	
Indeno[1,2,3-cd]pyrene		1000	1030	ug/L	1.18	3.47	20	
Dibenz[ah]anthracene		1000	1040	ug/L	1.03	3.77	20	
Benzo[ghi]perylene		1000	1020	ug/L	1.00	2.31	20	
1-Methylnaphthalene		1000	1030	ug/L	0.626	3.49	20	
2-Methylnaphthalene		1000	1040	ug/L	0.597	3.54	20	

* Exceeds %D Criteria

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

CCV - Modified 03/05/2008
PDF File ID: 2253576
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120198 Run Date: 12/09/2011 Sample ID: WG384209-09
Instrument ID: HPMS7 Run Time: 11:41 Method: 8270C
File ID: 7M53653 Analyst: CAA QC Key: STD
ICal Workgroup: WG384209 Cal ID: HPMS7 - 09-DEC-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Acenaphthene	CCC	1000	1120	ug/L	1.32	12.2	30	
Fluoranthene	CCC	1000	1090	ug/L	1.19	9.10	30	
Benzo[a]pyrene	CCC	1000	1120	ug/L	1.11	12.0	30	
Naphthalene		1000	1110	ug/L	1.01	10.8	30	
Acenaphthylene		1000	1120	ug/L	1.93	11.6	30	
Fluorene		1000	1110	ug/L	1.32	10.8	30	
Phenanthrene		1000	1120	ug/L	0.972	11.5	30	
Anthracene		1000	1110	ug/L	1.00	11.3	30	
Pyrene		1000	1150	ug/L	1.20	14.5	30	
Benzo[a]anthracene		1000	1030	ug/L	0.970	2.70	30	
Chrysene		1000	1110	ug/L	1.14	11.3	30	
Benzo[b]fluoranthene		1000	1040	ug/L	1.04	4.10	30	
Benzo[k]fluoranthene		1000	1100	ug/L	1.15	9.80	30	
Indeno[1,2,3-cd]pyrene		1000	1080	ug/L	1.23	7.60	30	
Dibenz[ah]anthracene		1000	1040	ug/L	1.02	3.50	30	
Benzo[ghi]perylene		1000	1080	ug/L	1.05	7.60	30	
1-Methylnaphthalene		1000	1070	ug/L	0.646	6.90	30	
2-Methylnaphthalene		1000	1150	ug/L	0.664	15.1	30	

* Exceeds %D Limit

CCC Calibration Check Compounds
SPCC System Performance Check Compounds

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2253574
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120198
Instrument ID: HPMS7
Workgroup (AAB#): WG384202

CCV Number: WG384209-02
CAL ID: HPMS7-09-DEC-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384209-02	NA	NA	75067	154389	143677	148450	141589
Upper Limit	NA	NA	150134	308778	287354	296900	283178
Lower Limit	NA	NA	37534	77195	71839	74225	70795
L11120198-01	1.00	01	63371	127665	117829	127528	119898
L11120198-02	1.00	01	66764	132349	123587	131851	125524
L11120198-03	5.00	DL01	56839	105064	104384	120750	105956
L11120198-04	5.00	DL01	70534	122668	130509	141107	130588
L11120198-05	5.00	DL01	64771	120230	118366	134959	118506
L11120198-06	1.00	01	76268	143546	140611	151161	139869
L11120198-07	5.00	DL01	60500	122975	111947	129180	112039
L11120198-08	1.00	01	62549	122890	112439	121500	115969
L11120198-09	1.00	01	68920	136587	124682	135230	126483
WG384079-01	1.00	01	60811	119688	113722	112709	112902
WG384079-02	1.00	01	66535	132286	127421	123870	125301
WG384079-03	1.00	01	64038	127018	122557	120367	120622

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2253577
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120198
Instrument ID: HPMS7
Workgroup (AAB#): WG384202

CCV Number: WG384360-02
CAL ID: HPMS7-09-DEC-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384360-02	NA	NA	59028	118525	112355	110914	110327
Upper Limit	NA	NA	118056	237050	224710	221828	220654
Lower Limit	NA	NA	29514	59263	56178	55457	55164
L11120198-03	50.0	DL02	68426	137503	123383	130718	132464
L11120198-04	50.0	DL02	71014	142651	129089	137454	138266
L11120198-05	50.0	DL02	71310	145913	130145	138401	139013
L11120198-06	10.0	DL01	70479	144323	127773	133845	135244
L11120198-07	50.0	DL02	69527	142731	126377	131845	133940
L11120198-10	1.00	01	60332	124483	111281	123487	115358
L11120198-11	5.00	DL01	72662	145448	132324	152284	138531
L11120198-12	1.00	01	58439	120347	107933	115156	110110
L11120198-13	1.00	01	70773	143822	125999	150799	129288
L11120198-14	1.00	01	61697	127325	109099	122725	115182
L11120198-15	5.00	DL01	68123	144857	125877	143907	134612
L11120198-16	1.00	01	71612	146771	131926	151760	135514
L11120198-17	1.00	01	76055	145719	137924	162433	141844
L11120198-18	1.00	01	67695	136667	114800	131695	123708
L11120198-19	1.00	01	62787	125871	114109	128651	116550

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2253577
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.

INTERNAL STANDARD AREA SUMMARY
(COMPARED TO CCV)

Login Number: L11120198
Instrument ID: HPMS7
Workgroup (AAB#): WG384202

CCV Number: WG384502-02
CAL ID: HPMS7-09-DEC-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384502-02	NA	NA	67995	137977	131028	130295	129253
Upper Limit	NA	NA	135990	275954	262056	260590	258506
Lower Limit	NA	NA	33998	68989	65514	65148	64627
L11120198-11	50.0	DL02	70512	143801	128795	136247	136287
L11120198-13	10.0	DL01	72219	149069	132145	142740	137524
L11120198-17	10.0	DL01	63672	132730	117156	128871	122846
L11120198-19	10.0	DL01	68285	138697	126095	132085	130088

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD - Modified 03/06/2008
PDF File ID: 2253577
Report generated 12/14/2011 11:33

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120198 CCV Number: WG384209-02

Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11

Workgroup (AAB#): WG384202 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384209-02	NA	NA	8.04	13.24	5.86	15.34	9.89
Upper Limit	NA	NA	8.54	13.74	6.36	15.84	10.39
Lower Limit	NA	NA	7.54	12.74	5.36	14.84	9.39
L11120198-01	1.00	01	8.04	13.25	5.86	15.34	9.89
L11120198-02	1.00	01	8.04	13.25	5.86	15.34	9.89
L11120198-03	5.00	DL01	8.04	13.25	5.86	15.34	9.89
L11120198-04	5.00	DL01	8.04	13.25	5.86	15.34	9.89
L11120198-05	5.00	DL01	8.04	13.25	5.86	15.35	9.89
L11120198-06	1.00	01	8.03	13.25	5.86	15.34	9.89
L11120198-07	5.00	DL01	8.04	13.25	5.86	15.34	9.89
L11120198-08	1.00	01	8.04	13.25	5.86	15.34	9.89
L11120198-09	1.00	01	8.04	13.25	5.86	15.34	9.89
WG384079-01	1.00	01	8.04	13.24	5.86	15.34	9.89
WG384079-02	1.00	01	8.04	13.24	5.86	15.33	9.89
WG384079-03	1.00	01	8.04	13.25	5.86	15.33	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2253578
Report generated 12/14/2011 11:34

Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120198 CCV Number: WG384360-02

Instrument ID: HPMS7 CAL ID: HPMS7-09-DEC-11

Workgroup (AAB#): WG384202 Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384360-02	NA	NA	8.04	13.24	5.86	15.34	9.89
Upper Limit	NA	NA	8.54	13.74	6.36	15.84	10.39
Lower Limit	NA	NA	7.54	12.74	5.36	14.84	9.39
L11120198-03	50.0	DL02	8.04	13.25	5.86	15.33	9.89
L11120198-04	50.0	DL02	8.04	13.24	5.86	15.33	9.89
L11120198-05	50.0	DL02	8.04	13.25	5.86	15.33	9.89
L11120198-06	10.0	DL01	8.04	13.25	5.86	15.33	9.89
L11120198-07	50.0	DL02	8.04	13.25	5.86	15.33	9.89
L11120198-10	1.00	01	8.04	13.24	5.86	15.33	9.89
L11120198-11	5.00	DL01	8.04	13.25	5.86	15.34	9.89
L11120198-12	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120198-13	1.00	01	8.04	13.25	5.86	15.34	9.89
L11120198-14	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120198-15	5.00	DL01	8.04	13.24	5.86	15.34	9.89
L11120198-16	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120198-17	1.00	01	8.04	13.25	5.86	15.35	9.89
L11120198-18	1.00	01	8.04	13.25	5.86	15.33	9.89
L11120198-19	1.00	01	8.04	13.25	5.86	15.33	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
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Microbac Laboratories Inc.

INTERNAL STANDARD RETENTION TIME SUMMARY
(COMPARED TO CCV)

Login Number: L11120198
Instrument ID: HPMS7
Workgroup (AAB#): WG384202

CCV Number: WG384502-02
CAL ID: HPMS7-09-DEC-11
Matrix: SOLID

Sample Number	Dilution	Tag	IS-1	IS-2	IS-3	IS-4	IS-5
WG384502-02	NA	NA	8.03	13.25	5.86	15.33	9.89
Upper Limit	NA	NA	8.53	13.75	6.36	15.83	10.39
Lower Limit	NA	NA	7.53	12.75	5.36	14.83	9.39
L11120198-11	50.0	DL02	8.04	13.24	5.86	15.33	9.89
L11120198-13	10.0	DL01	8.04	13.24	5.86	15.33	9.89
L11120198-17	10.0	DL01	8.04	13.24	5.86	15.33	9.89
L11120198-19	10.0	DL01	8.03	13.25	5.86	15.33	9.89

IS-1 - Acenaphthene-d10
IS-2 - Chrysene-d12
IS-3 - Naphthalene-d8
IS-4 - Perylene-d12
IS-5 - Phenanthrene-d10

Underline = Response outside limits

INTERNAL_STD_RT - Modified 03/06/2008
PDF File ID: 2253578
Report generated 12/14/2011 11:34

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 120911
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 39997 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384107, WG384202
Internal STD: STD48775 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53644	WG384209-01 5ppm DFTPP	1	1	STD47562	12/09/11 07:48
2	7M53645	WG384209-02 1ppm PAHL STD	1	1	STD46618	12/09/11 08:05
3	7M53646	WG384209-02 1ppm PAHL STD	1	1	STD46618	12/09/11 08:33
4	7M53647	WG384209-03 10ppm PAHL STD	1	1	STD46618	12/09/11 09:00
5	7M53648	WG384209-04 5ppm PAHL STD	1	1	STD46618	12/09/11 09:27
6	7M53649	WG384209-05 2.5ppm PAHL STD	1	1	STD46618	12/09/11 09:53
7	7M53650	WG384209-06 0.5ppm PAHL STD	1	1	STD46618	12/09/11 10:20
8	7M53651	WG384209-07 0.1ppm PAHL STD	1	1	STD46618	12/09/11 10:47
9	7M53652	WG384209-08 0.05ppm PAHL STD	1	1	STD46618	12/09/11 11:14
10	7M53653	WG384209-09 1ppm PAHL Alt Src STD	1	1	STD46408	12/09/11 11:41
11	7M53654	WG384079-01 BLK 12/08	7	1	SOIL	12/09/11 12:09
12	7M53655	WG384079-02 LCS 12/08	7	1	SOIL	12/09/11 12:35
13	7M53656	WG384079-03 LCS DUP 12/08	7	1	SOIL	12/09/11 13:02
14	7M53657	L11120197-03 20X	7	20	SOIL	12/09/11 13:29
15	7M53658	L11120197-06 50X	7	50	SOIL	12/09/11 13:56
16	7M53659	L11120197-05 200X	7	200	SOIL	12/09/11 14:23
17	7M53660	L11120197-02 200X	7	200	SOIL	12/09/11 14:50
18	7M53661	L11120197-04 200X	7	200	SOIL	12/09/11 15:17
19	7M53662	L11120198-01	7	1	SOIL	12/09/11 15:44
20	7M53663	L11120198-02	7	1	SOIL	12/09/11 16:10
21	7M53664	L11120198-08	7	1	SOIL	12/09/11 16:38
22	7M53665	L11120198-09	7	1	SOIL	12/09/11 17:05
23	7M53666	L11120198-06	7	1	SOIL	12/09/11 17:31
24	7M53667	L11120198-04 5X	7	5	SOIL	12/09/11 17:58
25	7M53668	L11120198-05 5X	7	5	SOIL	12/09/11 18:25
26	7M53669	L11120198-03 5X	7	5	SOIL	12/09/11 18:52
27	7M53670	L11120198-07 5X	7	5	SOIL	12/09/11 19:19

Comments

Seq.	Rerun	Dil.	Reason	Analytes
2	X			
	WG384209-02 1ppm PAHL STD - SS NBZ fails high.			
3				
	WG384209-02 1ppm PAHL STD - SS NBZ fails high, run ICAL.			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 120911
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 39997 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384107, WG384202
Internal STD: STD48775 Surrogate STD: NA
CCV STD: LCS STD:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
16	X	2000	Over Calibration Range	#12, 14
	L11120197-05 200X			
17	X	2000	Over Calibration Range	#12, 14, 16
	L11120197-02 200X			
18	X	2000	Over Calibration Range	#12, 14, 16
	L11120197-04 200X			
23	X	10	Over Calibration Range	#12, 14, 16
	L11120198-06			
24	X	50	Over Calibration Range	#12, 13, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120198-04 5X			
25	X	50	Over Calibration Range	#12, 14, 16, 18 , 19, 21, 22, 23
	L11120198-05 5X			
26	X	50	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120198-03 5X			
27	X	50	Over Calibration Range	#14
	L11120198-07 5X			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121211
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40012 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384202, WG384107, WG384313
Internal STD: COA14927 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments: Samples were analyzed at a dilution due to extract appearance and viscosity.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53671	WG384360-01 5ppm DFTPP	1	1	STD47562	12/12/11 09:06
2	7M53672	WG384360-02 1ppm PAHL STD	1	1	STD46618	12/12/11 09:23
3	7M53673	WG384181-01 BLK 12/08	7	1	SOIL	12/12/11 09:51
4	7M53674	WG384181-02 LCS 12/08	7	1	SOIL	12/12/11 10:17
5	7M53675	WG384181-03 LCS DUP 12/08	7	1	SOIL	12/12/11 10:44
6	7M53676	L11120198-12	7	1	SOIL	12/12/11 11:11
7	7M53677	L11120198-14	7	1	SOIL	12/12/11 11:38
8	7M53678	L11120198-10	7	1	SOIL	12/12/11 12:05
9	7M53679	L11120198-18	7	1	SOIL	12/12/11 12:32
10	7M53680	L11120198-19	7	1	SOIL	12/12/11 12:59
11	7M53681	L11120198-16	7	1	SOIL	12/12/11 13:25
12	7M53682	L11120198-13	7	1	SOIL	12/12/11 13:52
13	7M53683	L11120198-17	7	1	SOIL	12/12/11 14:19
14	7M53684	L11120198-11 5X	7	5	SOIL	12/12/11 14:45
15	7M53685	L11120198-15 5X	7	5	SOIL	12/12/11 15:13
16	7M53686	L11120197-05 2000X	7	2000	SOIL	12/12/11 15:40
17	7M53687	L11120197-02 2000X	7	2000	SOIL	12/12/11 16:07
18	7M53688	L11120197-04 2000X	7	2000	SOIL	12/12/11 16:33
19	7M53689	L11120198-06 10X	7	10	SOIL	12/12/11 17:00
20	7M53690	L11120198-04 50X	7	50	SOIL	12/12/11 17:27
21	7M53691	L11120198-05 50X	7	50	SOIL	12/12/11 17:54
22	7M53692	L11120198-03 50X	7	50	SOIL	12/12/11 18:21
23	7M53693	L11120198-07 50X	7	50	SOIL	12/12/11 18:49
24	7M53694	L11120224-02	7	1	SOIL	12/12/11 19:15
25	7M53695	L11120224-04	7	1	SOIL	12/12/11 19:42
26	7M53696	L11120224-03	7	1	SOIL	12/12/11 20:09
27	7M53697	L11120224-01 2X	7	2	SOIL	12/12/11 20:36

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X	10	Over Calibration Range	#14
	L11120198-19			
12	X	10	Over Calibration Range	#12, 14, 16
	L11120198-13			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121211
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40012 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384202, WG384107, WG384313
Internal STD: COA14927 Surrogate STD: NA
CCV STD: LCS STD:

Comments

Seq.	Rerun	Dil.	Reason	Analytes
13	X	10	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120198-17			
14	X	50	Over Calibration Range	#12, 14, 16, 18, 19
	L11120198-11 5X			
27	X	20	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120224-01 2X			

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HPMS7 Dataset: 121311
Analyst1: CAA Analyst2: NA
Method: 8270L SOP: MSS03 Rev: 10

Maintenance Log ID: 40032 Syringe Filter Lot#:

Column 1 ID: RXI-5MS Column 2 ID: NA
Workgroups: WG384313, WG384202
Internal STD: STD48775 Surrogate STD: NA Calibration STD
CCV STD: LCS STD: MS/MSD STD:

Comments: Samples were analyzed at a dilution due to extract appearance and viscosity.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	7M53698	WG384502-01 5ppm DFTPP	1	1	STD47562	12/13/11 07:55
2	7M53699	WG384502-02 1ppm PAHL STD	1	1	STD46618	12/13/11 08:12
3	7M53700	L11120198-19 10X	7	10	SOIL	12/13/11 08:39
4	7M53701	L11120198-13 10X	7	10	SOIL	12/13/11 09:06
5	7M53702	L11120198-17 10X	7	10	SOIL	12/13/11 09:32
6	7M53703	L11120198-11 50X	7	50	SOIL	12/13/11 10:00
7	7M53704	L11120224-01 20X	7	20	SOIL	12/13/11 10:27
8	7M53705	L11120224-06	7	1	SOIL	12/13/11 10:54
9	7M53706	L11120224-12	7	1	SOIL	12/13/11 11:21
10	7M53707	L11120224-08	7	1	SOIL	12/13/11 11:48
11	7M53708	L11120224-10	7	1	SOIL	12/13/11 12:15
12	7M53709	L11120224-17	7	1	SOIL	12/13/11 12:42
13	7M53710	L11120224-14	7	1	SOIL	12/13/11 13:09
14	7M53711	L11120226-01	7	1	SOIL	12/13/11 13:37
15	7M53712	L11120224-11	7	1	SOIL	12/13/11 14:04
16	7M53713	L11120224-16	7	1	SOIL	12/13/11 14:31
17	7M53714	L11120224-07	7	1	SOIL	12/13/11 14:58
18	7M53715	L11120224-09 2X	7	2	SOIL	12/13/11 15:25
19	7M53716	L11120224-13 5X	7	5	SOIL	12/13/11 15:52
20	7M53717	L11120224-05 10X	7	10	SOIL	12/13/11 16:19
21	7M53718	L11120224-15 20X	7	20	SOIL	12/13/11 16:46

Comments

Seq.	Rerun	Dil.	Reason	Analytes
18	X	20	Over Calibration Range	#14, 16
	L11120224-09 2X			
19	X	50	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23
	L11120224-13 5X			
20	X	100	Over Calibration Range	#12, 14, 16, 18, 19, 21, 23
	L11120224-05 10X			
21	X	200	Over Calibration Range	#12, 14, 16, 18, 19, 21, 22, 23, 24, 26
	L11120224-15 20X			

Page: 1 Approved: 14-DEC-11

Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG384079
Analyst: CAF
Spike Analyst: CAF
Method: 3545
Run Date: 12/08/2011 08:41
SOP: ASE01 Revison 8
Spike Witness: CPD
Surr Solution: STD47368

Methylene Chloride Lot #: COA15754
Purified Lab Sand Lot #: COA15341
Diatomaceous Earth Lot #: COA15755
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15761

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11120198-01	SAMP			827-PAHL	20.86 g	.25 mL			1 mL	Colored
2	L11120198-02	SAMP			827-PAHL	20.61 g	.25 mL			1 mL	Colored
3	L11120198-03	SAMP			827-PAHL	20.25 g	.25 mL			1 mL	Opaque
4	L11120198-04	SAMP			827-PAHL	20.43 g	.25 mL			1 mL	Opaque
5	L11120198-05	SAMP			827-PAHL	20.28 g	.25 mL			1 mL	Opaque
6	L11120198-06	SAMP			827-PAHL	20.98 g	.25 mL			1 mL	Colored
7	L11120198-07	SAMP			827-PAHL	20.17 g	.25 mL			1 mL	Opaque
8	L11120198-08	SAMP			827-PAHL	20.69 g	.25 mL			1 mL	Colored
9	L11120198-09	SAMP			827-PAHL	20.21 g	.25 mL			1 mL	Colored
10	L11120198-10	SAMP			827-PAHL	20.55 g	.25 mL			1 mL	Colored
11	L11120198-11	SAMP			827-PAHL	20.94 g	.25 mL			1 mL	Opaque
12	L11120198-12	SAMP			827-PAHL	20.9 g	.25 mL			1 mL	Colored
13	L11120198-13	SAMP			827-PAHL	20.4 g	.25 mL			1 mL	Opaque
14	L11120198-14	SAMP			827-PAHL	20.76 g	.25 mL			1 mL	Colored
15	L11120198-15	SAMP			827-PAHL	20.7 g	.25 mL			1 mL	Opaque
16	L11120198-16	SAMP			827-PAHL	20.9 g	.25 mL			1 mL	Colored
17	L11120198-17	SAMP			827-PAHL	20.93 g	.25 mL			1 mL	Opaque
18	L11120198-18	SAMP			827-PAHL	20.12 g	.25 mL			1 mL	Colored
19	L11120198-19	SAMP			827-PAHL	20.29 g	.25 mL			1 mL	Colored
20	WG384079-01	BLANK			827-PAHL	20 g	.25 mL			1 mL	Transparent
21	WG384079-02	LCS			827-PAHL	20 g	.25 mL	1 mL	STD48047	1 mL	Transparent
22	WG384079-03	LCS2			827-PAHL	20 g	.25 mL	1 mL	STD48047	1 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Analyst: Cheryl A. Flowers

Reviewer: Richard Davis

EXTRACT - Modified 10/22/2008
PDF ID: 2248041
Report generated: 12/08/2011 15:35

Microbac Laboratories Inc.

METHOD BLANK SUMMARY

Login Number: L11120198
Blank File ID: 14G36039.R
Prep Date: 12/08/11 08:30
Analyzed Date: 12/08/11 21:13
Analyst: HAV

Work Group: WG384319
Blank Sample ID: WG384077-01
Instrument ID: HP14
Method: 8015C

This Method Blank Applies To The Following Samples:

Client ID	Lab Sample ID	Lab File ID	Time Analyzed	TAG
LCS	WG384077-02	14G36040.R	12/08/11 22:00	01
LCS2	WG384077-03	14G36041.R	12/08/11 22:47	01
BORING 1 2-4	L11120198-01	14G36042.R	12/08/11 23:34	01
BORING 2 2-4	L11120198-02	14G36043.R	12/09/11 00:21	01
BORING 3 0-2	L11120198-03	14G36044.R	12/09/11 01:08	01
BORING 3 2-4	L11120198-04	14G36045.R	12/09/11 01:56	01
BORING 4 0-2	L11120198-05	14G36046.R	12/09/11 02:43	01
BORING 4 2-4	L11120198-06	14G36047.R	12/09/11 03:30	01
BORING 5 2-4	L11120198-08	14G36048.R	12/09/11 04:17	01
BORING 5 0-2	L11120198-07	14G36051.R	12/09/11 06:38	01
BORING 6 2-4	L11120198-09	14G36052.R	12/09/11 07:25	01
BORING 7 2-4	L11120198-10	14G36053.R	12/09/11 08:20	01
BORING 8 2-4	L11120198-11	14G36054.R	12/09/11 09:07	01
BORING 9 2-4	L11120198-12	14G36055.R	12/09/11 09:55	01
BORING 10 0-2	L11120198-13	14G36056.R	12/09/11 10:42	01
BORING 10 2-4	L11120198-14	14G36057.R	12/09/11 11:29	01
BORING 11 0-2	L11120198-15	14G36058.R	12/09/11 12:16	01
BORING 12 0-2	L11120198-17	14G36060.R	12/09/11 13:51	01
BORING 12 2-4	L11120198-18	14G36134.R	12/14/11 11:55	01
DUPLICATE	L11120198-19	14G36135.R	12/14/11 12:42	01
BORING 11 2-4	L11120198-16	14G36139.R	12/14/11 15:52	01

Report Name: BLANK_SUMMARY
PDF File ID: 2251191
Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

METHOD BLANK REPORT

Login Number: L11120198 Prep Date: 12/08/11 08:30 Sample ID: WG384077-01
Instrument ID: HP14 Run Date: 12/08/11 21:13 Prep Method: 3545
File ID: 14G36039.R Analyst: HAV Method: 8015C
Workgroup (AAB#): WG384319 Matrix: Soil Units: ug/kg
Contract #: Cal ID: HP14-20-SEP-11

Analytes	MDL	RL	Concentration	Dilution	Qualifier
Carbon Range-C10-C20	2000	10000	2000	1	U
Carbon Range-C20-C34	2000	10000	2000	1	U

Surrogates	% Recovery	Surrogate Limits			Qualifier
o-Terphenyl	88.4	43	-	136	PASS
Octacosane	97.4	25	-	162	PASS

MDL Method Detection Limit
RL Reporting/Practical Quantitation Limit
ND Analyte Not detected at or above reporting limit
* |Analyte concentration| > RL

Report Name:BLANK
PDF ID: 2251192
16-DEC-2011 15:43

Microbac Laboratories Inc.
LABORATORY CONTROL SAMPLE (LCS)

Login Number: L11120198 Analyst: HAV Prep Method: 3545
Instrument ID: HP14 Matrix: Soil Method: 8015C
Workgroup (AAB#): WG384319 Units: ug/kg
QC Key: STD Lot #: STD46344

Sample ID: WG384077-02 LCS File ID: 14G36040.R Run Date: 12/08/2011 22:00
Sample ID: WG384077-03 LCS2 File ID: 14G36041.R Run Date: 12/08/2011 22:47

Analytes	LCS			LCS2			%RPD	%Rec Limits	RPD Lmt	Q
	Known	Found	% REC	Known	Found	% REC				
Diesel Range (C10-C28)	250000	183000	73.2	250000	190000	76.1	3.87	53 - 127	26	

Surogates	LCS	LCS2	Surrogate Limits	Qualifier
	% Recovery	% Recovery		
o-Terphenyl	90.0	96.1	43 - 136	PASS
Octacosane	103	99.7	25 - 162	PASS

* EXCEEDS %REC LIMIT

\# EXCEEDS RPD LIMIT

LCS_LCS2 - Modified 03/06/2008
PDF File ID: 2251193
Report generated: 12/16/2011 15:46

Login Number: L11120198
Instrument Id: HP14
Workgroup (AAB#): WG384319

Method: 8015
CAL ID: HP14-20-SEP-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11120198-01	1.00	01	83.6	105
L11120198-02	1.00	01	86.6	107
L11120198-03	1.00	01	85.5	112
L11120198-04	1.00	01	62.2	89.2
L11120198-05	1.00	01	64.3	91.2
L11120198-06	1.00	01	73.5	96.9
L11120198-07	1.00	01	69.2	90.0
L11120198-08	1.00	01	77.5	101
L11120198-09	1.00	01	66.7	96.7
L11120198-10	1.00	01	61.2	85.0
L11120198-11	1.00	01	71.8	89.9
L11120198-12	1.00	01	64.2	85.7
L11120198-13	1.00	01	74.7	90.3
L11120198-14	1.00	01	65.0	91.6
L11120198-15	1.00	01	59.8	98.1
L11120198-17	1.00	01	72.5	92.3
WG384077-01	1.00	01	88.4	97.4
WG384077-02	1.00	01	90.0	103
WG384077-03	1.00	01	96.1	99.7

Surrogates	Surrogate Limits		
1 - o-Terphenyl	43	-	136
2 - Octacosane	25	-	162

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2251194
Report generated: 12/16/2011 15:46

Microbac Laboratories Inc.
SURROGATE STANDARDS

Login Number: L11120198
Instrument Id: HP14
Workgroup (AAB#): WG384319

Method: 8015
CAL ID: HP14-13-DEC-11
Matrix: Soil

Sample Number	Dilution	Tag	1	2
L11120198-16	1.00	01	73.5	109
L11120198-18	1.00	01	92.4	144
L11120198-19	1.00	01	101	139

Surrogates	Surrogate Limits		
1 - o-Terphenyl	43	-	136
2 - Octacosane	25	-	162

Underline = Result out of surrogate limits

DL = surrogate diluted out
ND = surrogate not detected

SURROGATES - Modified 03/06/2008
PDF File ID: 2251194
Report generated: 12/16/2011 15:46

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/08/2011 Sample ID: WG384318-02

Instrument ID: HP14 Run Time: 20:26 Method: 8015C

File ID: 14G36038.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384319 Cal ID: HP14 - 20-SEP-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1010000	ug/L	55400	1.09	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2258348

Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/09/2011 Sample ID: WG384318-03

Instrument ID: HP14 Run Time: 05:51 Method: 8015C

File ID: 14G36050.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384319 Cal ID: HP14 - 20-SEP-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1120000	ug/L	61600	12.4	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2258348

Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/09/2011 Sample ID: WG384318-04

Instrument ID: HP14 Run Time: 15:26 Method: 8015C

File ID: 14G36062.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384319 Cal ID: HP14 - 20-SEP-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1140000	ug/L	62300	13.6	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2258348

Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/14/2011 Sample ID: WG384643-02

Instrument ID: HP14 Run Time: 11:08 Method: 8015C

File ID: 14G36133.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384319 Cal ID: HP14 - 13-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1150000	ug/L	51700	14.6	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2258348

Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

CONTINUING CALIBRATION VERIFICATION (CCV)

Login Number: L11120198 Run Date: 12/14/2011 Sample ID: WG384643-03

Instrument ID: HP14 Run Time: 19:48 Method: 8015C

File ID: 14G36144.R Analyst: HAV QC Key: STD

Workgroup (AAB#): WG384319 Cal ID: HP14 - 13-DEC-11

Matrix: SOIL

Analyte		Expected	Found	UNITS	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	943000	ug/L	42500	5.65	20	

* Exceeds %D Criteria

CCV - Modified 03/05/2008

PDF File ID: 2258348

Report generated 12/16/2011 15:46

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120198 Run Date: 09/20/2011 Sample ID: WG376523-07
Instrument ID: HP14 Run Time: 15:23 Method: 8015C
File ID: 14G35174.R Analyst: HAV QC Key: STD
ICal Workgroup: WG376523 Cal ID: HP14 - 20-SEP-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1050000	ug/L	57700	5.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2258347
Report generated 12/16/2011 15:46

Microbac Laboratories Inc.
ALTERNATE SOURCE CALIBRATION REPORT

Login Number: L11120198 Run Date: 12/13/2011 Sample ID: WG384642-07
Instrument ID: HP14 Run Time: 17:50 Method: 8015C
File ID: 14G36111.R Analyst: HAV QC Key: STD
ICal Workgroup: WG384642 Cal ID: HP14 - 13-DEC-11

Analyte		Expected	Found	Units	RF	%D	UCL	Q
Diesel Range (C10-C28)		1000000	1090000	ug/L	49300	9.20	20	

* Exceeds %D Limit

ALT - Modified 09/06/2007
Version 1.5 PDF File ID: 2258347
Report generated 12/16/2011 15:46

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 092011
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: 12 Rev: 6

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP

Workgroups: WG376548

Internal STD: NA Surrogate STD: NA Calibration STD STD47624

Comments: DRO ICAL was run because of a new standard.
Due to the extracts appearence, samples L11090462 (01-03) and L11090509 (09) were analyzed at dilutions.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G35165.R	ch2cl2	1	1		09/20/11 09:36
2	14G35166.R	WIN DEF STD	1	1		09/20/11 08:54
3	14G35167.R	DRO CCV @1000ppm	1	1	STD44902	09/20/11 10:17
4	14G35168.R	WG376523-01 DRO @10000ppm	1	1	STD47624	09/20/11 11:10
5	14G35169.R	WG376523-02 DRO @5000ppm	1	1	STD47624	09/20/11 11:52
6	14G35170.R	WG376523-03 DRO @2500ppm	1	1	STD47624	09/20/11 12:34
7	14G35171.R	WG376523-04 DRO @1000ppm	1	1	STD47624	09/20/11 13:16
8	14G35172.R	WG376523-05 DRO @500ppm	1	1	STD47624	09/20/11 13:58
9	14G35173.R	WG376523-06 DRO @100ppm	1	1	STD47624	09/20/11 14:40
10	14G35174.R	WG376523-07 ALT DRO @1000ppm	1	1	STD44928	09/20/11 15:23
11	14G35175.R	WG376315-01 BLANK	7	1		09/20/11 16:07
12	14G35176.R	WG376315-02 LCS	7	1		09/20/11 16:49
13	14G35177.R	WG376315-03 LCS DUP	7	1		09/20/11 17:31
14	14G35178.R	L11090509-01	7	1		09/20/11 18:13
15	14G35179.R	L11090509-02	7	1		09/20/11 18:55
16	14G35180.R	L11090509-03	7	1		09/20/11 19:37
17	14G35181.R	L11090509-04	7	1		09/20/11 20:19
18	14G35182.R	L11090509-05	7	1		09/20/11 21:01
19	14G35183.R	L11090509-06	7	1		09/20/11 21:43
20	14G35184.R	L11090509-08	7	1		09/20/11 22:25
21	14G35185.R	ch2cl2	1	1		09/20/11 23:07
22	14G35186.R	WG376585-01 DRO CCV @1000ppm	1	1	STD47624	09/20/11 23:49
23	14G35187.R	L11090509-07	7	1		09/21/11 00:31
24	14G35188.R	L11090509-09 2x	7	2		09/21/11 01:13
25	14G35189.R	L11090462-01 2x	7	2		09/21/11 01:54
26	14G35190.R	L11090462-02 2x	7	2		09/21/11 02:36
27	14G35191.R	L11090462-03 2x	7	2		09/21/11 03:18
28	14G35192.R	ch2cl2	1	1		09/21/11 04:00
29	14G35193.R	WG376585-02 DRO CCV @1000ppm	1	1	STD47624	09/21/11 04:41

Comments

Seq.	Rerun	Dil.	Reason	Analytes

Page: 1 Approved: 22-SEP-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 120811
Analyst1: HAV Analyst2: NA
Method: 8015-DRO SOP: GCS02 Rev: 13
Method: 8015-DRO SOP: OVAP GCS02 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART)
Internal STD: NA Surrogate STD: NA Calibration STD STD47624
CCV STD: STD47624 LCS STD: MS/MSD STD:

Comments: Samples L11120197 (01,06) were analyzed at dilutions due to the appearance of the extracts.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G36026.R	ch2cl2	1	1		12/08/11 09:06
2	14G36027.R	WIN DEF STD	1	1		12/08/11 11:47
3	14G36028.R	WG384318-01 DRO CCV @1000ppm	1	1	STD47624	12/08/11 12:33
4	14G36029.R	WG384057-01 BLANK	7	1		12/08/11 13:21
5	14G36030.R	WG384057-02 LCS	7	1		12/08/11 14:08
6	14G36031.R	L11120128-05	7	1		12/08/11 14:56
7	14G36032.R	L11120128-06	7	1		12/08/11 15:43
8	14G36033.R	L11120197-03 DRO-SPE	7	1		12/08/11 16:30
9	14G36034.R	WG384057-03 LCS	7	1		12/08/11 17:17
10	14G36035.R	L11120197-01 10x	7	10		12/08/11 18:04
11	14G36036.R	L11120197-06 10x	7	10		12/08/11 18:52
12	14G36037.R	ch2cl2	1	1		12/08/11 19:39
13	14G36038.R	WG384318-02 DRO CCV @1000ppm	1	1	STD47624	12/08/11 20:26
14	14G36039.R	WG384077-01 BLANK	7	1		12/08/11 21:13
15	14G36040.R	WG384077-02 LCS	7	1		12/08/11 22:00
16	14G36041.R	WG384077-03 LCS DUP	7	1		12/08/11 22:47
17	14G36042.R	L11120198-01	7	1		12/08/11 23:34
18	14G36043.R	L11120198-02	7	1		12/09/11 00:21
19	14G36044.R	L11120198-03	7	1		12/09/11 01:08
20	14G36045.R	L11120198-04	7	1		12/09/11 01:56
21	14G36046.R	L11120198-05	7	1		12/09/11 02:43
22	14G36047.R	L11120198-06	7	1		12/09/11 03:30
23	14G36048.R	L11120198-08	7	1		12/09/11 04:17
24	14G36049.R	ch2cl2	1	1		12/09/11 05:04
25	14G36050.R	WG384318-03 DRO CCV @1000ppm	1	1	STD47624	12/09/11 05:51
26	14G36051.R	L11120198-07	7	1		12/09/11 06:38
27	14G36052.R	L11120198-09	7	1		12/09/11 07:25
28	14G36053.R	L11120198-10	7	1		12/09/11 08:20
29	14G36054.R	L11120198-11	7	1		12/09/11 09:07
30	14G36055.R	L11120198-12	7	1		12/09/11 09:55
31	14G36056.R	L11120198-13	7	1		12/09/11 10:42
32	14G36057.R	L11120198-14	7	1		12/09/11 11:29
33	14G36058.R	L11120198-15	7	1		12/09/11 12:16

Page: 1 Approved: 14-DEC-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 120811

Analyst1: HAV Analyst2: NA

Method: 8015-DRO SOP: GCS02 Rev: 13

Method: 8015-DRO SOP: OVAP GCS02 Rev: 0

Maintenance Log ID: Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP

Workgroups: WG384136 (PART), WG384319 (PART)

Internal STD: NA Surrogate STD: NA STD47624

CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	14G36059.R	L11120198-16	7	1		12/09/11 13:04
35	14G36060.R	L11120198-17	7	1		12/09/11 13:51
36	14G36061.R	ch2cl2	1	1		12/09/11 14:38
37	14G36062.R	WG384318-04 DRO CCV @1000ppm	1	1	STD47624	12/09/11 15:26

Comments

Seq.	Rerun	Dil.	Reason	Analytes
10	X			
	L11120197-01: excessive signal spikes.			

Page: 2 Approved: 14-DEC-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA Calibration STD STD47624
CCV STD: STD47624 LCS STD: MS/MSD STD:

Comments: Samples L11120197 (01,02,04,05), L11120198 (16,18,19), L11120224 (01,04,05,08,12,13) were re-ran due to check std. failure against OVAP limits.
Due to the random baseline signal spikes, maintenence on GC systems were performed and a new ICAL was run.

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
1	14G36101.R	ch2cl2	1	1		12/13/11 09:15
2	14G36102.R	WIN DEF STD	1	1		12/13/11 10:02
3	14G36103.R	WG384642-04 DRO CCV @1000ppm	1	1	STD47624	12/13/11 10:49
4	14G36104.R	WG384642-01 DRO @10000ppm	1	1	STD47624	12/13/11 11:35
5	14G36105.R	WG384642-02 DRO @5000ppm	1	1	STD47624	12/13/11 12:22
6	14G36106.R	WG384642-03 DRO @2500ppm	1	1	STD47624	12/13/11 13:10
7	14G36107.R	DRO @1000ppm	1	1	STD47624	12/13/11 13:57
8	14G36108.R	WG384642-05 DRO @500ppm	1	1	STD47624	12/13/11 14:44
9	14G36110.R	WG384642-06 DRO @100ppm	1	1	STD47624	12/13/11 17:02
10	14G36111.R	WG384642-07 ALT DRO @1000ppm	1	1	STD49074	12/13/11 17:50
11	14G36112.R	L11120224-04 RR	7	1		12/13/11 18:37
12	14G36113.R	L11120224-08 RR	7	1		12/13/11 19:24
13	14G36114.R	L11120224-12 RR	7	1		12/13/11 20:11
14	14G36115.R	L11120224-01 20x	7	20		12/13/11 20:58
15	14G36116.R	L11120224-13 20x	7	20		12/13/11 21:46
16	14G36117.R	L11120197-01 10x	7	10		12/13/11 22:33
17	14G36118.R	WG384341-01 BLANK	1	1		12/13/11 23:20
18	14G36119.R	WG384341-02 LCS	1	1		12/14/11 00:07
19	14G36120.R	WG384341-03 LCS DUP	1	1		12/14/11 00:54
20	14G36121.R	L11120128-01	1	1		12/14/11 01:42
21	14G36122.R	WG384643-01 DRO CCV @1000ppm	1	1	STD47624	12/14/11 02:29
22	14G36123.R	L11120230-01	1	1		12/14/11 03:16
23	14G36124.R	L11120230-04	1	1		12/14/11 04:03
24	14G36125.R	L11120230-07	1	1		12/14/11 04:50
25	14G36126.R	L11120250-01	1	1		12/14/11 05:37
26	14G36127.R	L11120250-04	1	1		12/14/11 06:25
27	14G36128.R	L11120285-03	1	1		12/14/11 07:12
28	14G36129.R	L11120285-06	1	1		12/14/11 07:59
29	14G36130.R	L11120286-03	1	1		12/14/11 08:46
30	14G36131.R	L11120286-04	1	1		12/14/11 09:33
31	14G36132.R	L11120286-05	1	1		12/14/11 10:21
32	14G36133.R	WG384643-02 DRO CCV @1000ppm	1	1	STD47624	12/14/11 11:08
33	14G36134.R	L11120198-18 RR	7	1		12/14/11 11:55

Page: 1 Approved: 16-DEC-11

Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA STD47624
CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
34	14G36135.R	L11120198-19 RR	7	1		12/14/11 12:42
35	14G36136.R	L11120197-02 20x RR	7	20		12/14/11 13:30
36	14G36137.R	L11120197-04 20x RR	7	20		12/14/11 14:17
37	14G36138.R	L11120197-05 20x RR	7	20		12/14/11 15:05
38	14G36139.R	L11120198-16 RR	7	1		12/14/11 15:52
39	14G36140.R	L11120310-01	1	1		12/14/11 16:39
40	14G36141.R	L11120310-02	1	1		12/14/11 17:26
41	14G36142.R	L11120310-03	1	1		12/14/11 18:14
42	14G36143.R	L11120332-01	1	1		12/14/11 19:01
43	14G36144.R	WG384643-03 DRO CCV @1000ppm	1	1	STD47624	12/14/11 19:48
44	14G36145.R	L11120332-02	1	1		12/14/11 20:36
45	14G36146.R	L11120333-01	1	1		12/14/11 21:23
46	14G36147.R	L11120333-02	1	1		12/14/11 22:10
47	14G36148.R	WG384342-01 BLANK	7	1		12/14/11 22:57
48	14G36149.R	WG384342-02 LCS	7	1		12/14/11 23:45
49	14G36150.R	WG384342-03 LCS DUP	7	1		12/15/11 00:32
50	14G36151.R	L11120230-02	7	1		12/15/11 01:19
51	14G36152.R	L11120230-03	7	1		12/15/11 02:06
52	14G36153.R	L11120230-05	7	1		12/15/11 02:53
53	14G36154.R	L11120230-06	7	1		12/15/11 03:41
54	14G36155.R	WG384643-04 DRO CCV @1000ppm	1	1	STD47624	12/15/11 04:28
55	14G36156.R	L11120230-08	7	1		12/15/11 05:15
56	14G36157.R	L11120230-09	7	1		12/15/11 06:02
57	14G36158.R	L11120250-02	7	1		12/15/11 06:50
58	14G36159.R	L11120250-03	7	1		12/15/11 07:37
59	14G36160.R	L11120250-05	7	1		12/15/11 08:24
60	14G36161.R	L11120250-06	7	1		12/15/11 09:12
61	14G36162.R	L11120285-01	7	1		12/15/11 09:59
62	14G36163.R	L11120285-02	7	1		12/15/11 10:47
63	14G36164.R	L11120285-04	7	1		12/15/11 11:34
64	14G36165.R	L11120285-05	7	1		12/15/11 12:22
65	14G36166.R	ch2cl2	1	1		12/15/11 13:09
66	14G36167.R	WG384643-05 DRO CCV @1000ppm	1	1	STD47624	12/15/11 13:51
67	14G36168.R	L11120286-01 DRO-SPE	7	1		12/15/11 14:38
68	14G36169.R	L11120286-02 DRO-SPE	7	1		12/15/11 15:26
69	14G36170.R	L11120224-05 20x RR DRO-SPE	7	20		12/15/11 16:13

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Microbac Laboratories Inc.

Instrument Run Log

Instrument: HP14 Dataset: 121311
Analyst1: HAV Analyst2: NA
Method: 8315-DRO SOP: GCSO2 Rev: 13

Maintenance Log ID: 40067 Syringe Filter Lot#:

Column 1 ID: Column 2 ID: RTX-CLP
Workgroups: WG384136 (PART), WG384319 (PART), WG384320 (PART), WG384527, WG384526
Internal STD: NA Surrogate STD: NA STD47624
CCV STD: STD47624 LCS STD:

Seq.	File ID	Sample Information	Mat	Dil	Reference	Date/Time
70	14G36171.R	ch2cl2	1	1		12/15/11 17:01
71	14G36172.R	WG384643-06 DRO CCV @1000ppm	1	1	STD47624	12/15/11 17:48

Comments

Seq.	Rerun	Dil.	Reason	Analytes
3	X		Check Standard Failure	
	Failed low after GC maintenence, need a new ICAL.			
43				
	WG384643-03 DRO CCV failed marginally 15% limit for surrogate O-Terphenyl.			

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Microbac Laboratories Inc.
Sample Extract Log

Workgroup: WG384077
Analyst: CAF
Spike Analyst: CAF
Method: 3545
Run Date: 12/08/2011 08:30
SOP: ASE01 Revison 8
Spike Witness: RAH
Surr Solution: STD48897

Methylene Chloride Lot #: COA15754
Purified Lab Sand Lot #: COA15341
Diatomaceous Earth Lot #: COA15755
Sodium Sulfate,Anhydrous,Granular (Lot #: COA15761

	SAMPLE #	Type	Reference	pH	Prod	Init Amnt	Surr Amnt	Spike Amnt	Spike Sol	Final Vol	Color
1	L11120198-01	SAMP			DRO-SPE	20.97 g	1 mL			1 mL	Colored
2	L11120198-02	SAMP			DRO-SPE	20.57 g	1 mL			1 mL	Colored
3	L11120198-03	SAMP			DRO-SPE	20.26 g	1 mL			1 mL	Opaque
4	L11120198-04	SAMP			DRO-SPE	20.48 g	1 mL			1 mL	Colored
5	L11120198-05	SAMP			DRO-SPE	20.58 g	1 mL			1 mL	Opaque
6	L11120198-06	SAMP			DRO-SPE	20.74 g	1 mL			1 mL	Colored
7	L11120198-07	SAMP			DRO-SPE	20.45 g	1 mL			1 mL	Opaque
8	L11120198-08	SAMP			DRO-SPE	20.35 g	1 mL			1 mL	Colored
9	L11120198-09	SAMP			DRO-SPE	20.47 g	1 mL			1 mL	Colored
10	L11120198-10	SAMP			DRO-SPE	20.09 g	1 mL			1 mL	Colored
11	L11120198-11	SAMP			DRO-SPE	20.8 g	1 mL			1 mL	Opaque
12	L11120198-12	SAMP			DRO-SPE	20.31 g	1 mL			1 mL	Colored
13	L11120198-13	SAMP			DRO-SPE	20.84 g	1 mL			1 mL	Opaque
14	L11120198-14	SAMP			DRO-SPE	20.47 g	1 mL			1 mL	Colored
15	L11120198-15	SAMP			DRO-SPE	20.74 g	1 mL			1 mL	Colored
16	L11120198-16	SAMP			DRO-SPE	20.48 g	1 mL			1 mL	Colored
17	L11120198-17	SAMP			DRO-SPE	20.74 g	1 mL			1 mL	Colored
18	L11120198-18	SAMP			DRO-SPE	20.88 g	1 mL			1 mL	Colored
19	L11120198-19	SAMP			DRO-SPE	20.91 g	1 mL			1 mL	Colored
20	L11120207-03	SAMP			DRO	20.3 g	1 mL			1 mL	Colored
21	WG384077-01	BLANK			DRO	20 g	1 mL			1 mL	Transparent
22	WG384077-02	LCS			DRO	20 g	1 mL	1 mL	STD46344	1 mL	Transparent
23	WG384077-03	LCS2			DRO	20 g	1 mL	1 mL	STD46344	1 mL	Transparent

Due to insufficient sample volume, this preparation batch failed to include the method prescribed MS and MSD.

Analyst: Cheryl A. Flowers

Reviewer:

EXTRACT - Modified 10/22/2008
PDF ID: 2248171
Report generated: 12/08/2011 16:26

L11120198 / Revision: 0 / 76 total pages

COC No. A 28053

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

Company Name: Tetra Tech

Project Contact: BRANDON HELM | Contact Phone #: 513-564-8355

Turn Around Requirements: *24 HR / NORMAL | Location: MANSFIELD, OHIO

Project ID:

Sampler (print): Vicki Farmer, BRANDON HELM | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC + GRO	PAH + DRO	% SOLIDS	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
*Boring 1 0-2		X	12-5-11	1120	SOIL	3		X	X	X		DO NOT NEED GRO
2-4				↓								
*Boring 2 0-2				1130								
2-4				↓								*NEED 24 HR TAT EVERYTHING ELSE NORMAL
Boring 3 0-2				1145								
2-4				↓								
Boring 4 0-2				1300								
2-4				↓								
Boring 5 0-2				1315								
2-4				↓								
*Boring 6 0-2				1320								
2-4				↓								
*Boring 7 0-2				1330								
2-4				↓								
*Boring 8 0-2				1345								
2-4				↓								
*Boring 9 0-2				1400								
2-4				↓								
Boring 10 0-2				1415								
2-4			↓	↓	↓	↓		↓	↓	↓		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Relinquished by:	Date	Time	Received by: (Signature)
[signature]	12/7/11	1600	Microbac OVD Received: 12/07/2011 13:03 By: BRENDA GREENWALT 221000020753				
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Remarks:			
			Brenda Greenwalt				

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page 1 of 2

Generated: 12/20/2011 17:09

COC No. A 28051

158 Starlite Drive
Marietta, OH 45750

Microbac

CHAIN-OF-CUSTODY RECORD

Phone: 740-373-4071
Fax: 740-373-4835

P 2/2

Company Name: Tetra Tech

Project Contact: BRANDON Helm | Contact Phone #:

Turn Around Requirements: | Location:

Project ID:

Sampler (print): | Signature:

Program: ☐ CWA ☐ RCRA ☐ DOD ☐ AFCEE ☐ Other

Sample I.D. No.	Comp	Grab	Date	Time	Matrix*	NUMBER OF CONTAINERS	Hold	VOC	PAH & DRO	% SOLIDS	TOTAL # (LAB USE)	ADDITIONAL REQUIREMENTS
Boring 11 0-2		X	12-5-11	1430	SOIL	3		X	X	X		
2-4		↓	↓	↓	↓	↓		↓	↓	↓		
Boring 12 0-2				1440								
2-4				↓								
DUPLICATE		↓	↓	—	↓	↓		↓	↓	↓		

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	12571	1600			
Relinquished by: (Signature)	Date	Time	Remarks:		

Microbac OVD
Received: 12/07/2011 13:03
By: BRENDA GREENWALT
221000020753

Brenda Greenwalt

*Water (W), Soil (S), Solid Waste (SD), Unknown (X)

Page _____ of _____

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-17414-1
Client Project/Site: Mansfield Stamping Plant / Racer

For:
Tetra Tech EM Inc.
250 W Court Street
Suite 200 W
Cincinnati, Ohio 45202

Attn: Ms. Vicky Farmer

Authorized for release by:
11/28/2012 3:25:11 PM

John McFadden
Project Manager I
john.mcfadden@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
E	Result exceeded calibration range.
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-17414-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Tetra Tech EM Inc.

Project: Mansfield Stamping Plant / Racer

Report Number: 240-17414-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

TestAmerica utilizes USEPA approved methods, where applicable, in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated and were analyzed in accordance with Ohio Voluntary Action Program protocols, where applicable.

A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/09/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.4 C.

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): DUPLICATE (240-17414-17).

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SB2102 (240-17414-1), SB2124 (240-17414-2), SB2202 (240-17414-3), SB2224 (240-17414-4), SB2302 (240-17414-5), SB2324 (240-17414-6), SB2402 (240-17414-7), SB2424 (240-17414-8), SB2702 (240-17414-9), SB2724 (240-17414-10), SB2602 (240-17414-11), SB2624 (240-17414-12), SB2502 (240-17414-13), SB2524 (240-17414-14), SB2802 (240-17414-15), SB2824 (240-17414-16) and DUPLICATE (240-17414-17) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 11/20/2012 and analyzed on 11/23/2012 and 11/26/2012.

Surrogates are added during the extraction process prior to dilution. When the sample is diluted, surrogate recoveries are diluted out and no corrective action is required.

Several analytes failed the surrogate recovery criteria low for SB2102 (240-17414-1).

Job ID: 240-17414-1 (Continued)

Laboratory: TestAmerica Canton (Continued)

Benzo[b]fluoranthene and Fluoranthene failed the recovery criteria high for the MS/MSD of sample DUPLICATEMS (240-17414-17) in batch 240-66058.

Samples SB2102 (240-17414-1)[250X], SB2102 (240-17414-1)[625X], SB2202 (240-17414-3)[6.67X], SB2224 (240-17414-4)[10X], SB2302 (240-17414-5)[10X], SB2324 (240-17414-6)[4X], SB2402 (240-17414-7)[4X], SB2702 (240-17414-9)[12.5X], SB2724 (240-17414-10)[4X], SB2602 (240-17414-11)[4X], SB2624 (240-17414-12)[10X], SB2502 (240-17414-13)[4X], SB2802 (240-17414-15)[2X] and SB2824 (240-17414-16)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No other difficulties were encountered during the SVOCs analyses. All other quality control parameters were within the acceptance limits.

PERCENT SOLIDS

Samples SB2102 (240-17414-1), SB2124 (240-17414-2), SB2202 (240-17414-3), SB2224 (240-17414-4), SB2302 (240-17414-5), SB2324 (240-17414-6), SB2402 (240-17414-7), SB2424 (240-17414-8), SB2702 (240-17414-9), SB2724 (240-17414-10), SB2602 (240-17414-11), SB2624 (240-17414-12), SB2502 (240-17414-13), SB2524 (240-17414-14), SB2802 (240-17414-15), SB2824 (240-17414-16) and DUPLICATE (240-17414-17) were analyzed for percent solids in accordance with EPA Method 160.3 MOD. The samples were analyzed on 11/14/2012.

Percent Moisture exceeded the rpd limit for the duplicate of sample SB2302DU (240-17414-5). Refer to the QC report for details.

No other difficulties were encountered during the % solids analyses. All other quality control parameters were within the acceptance limits.

Method Summary

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL NC
Moisture	Percent Moisture	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-17414-1	SB2102	Solid	11/08/12 10:38	11/09/12 09:15
240-17414-2	SB2124	Solid	11/08/12 10:38	11/09/12 09:15
240-17414-3	SB2202	Solid	11/08/12 10:44	11/09/12 09:15
240-17414-4	SB2224	Solid	11/08/12 10:44	11/09/12 09:15
240-17414-5	SB2302	Solid	11/08/12 10:55	11/09/12 09:15
240-17414-6	SB2324	Solid	11/08/12 10:55	11/09/12 09:15
240-17414-7	SB2402	Solid	11/08/12 10:59	11/09/12 09:15
240-17414-8	SB2424	Solid	11/08/12 10:59	11/09/12 09:15
240-17414-9	SB2702	Solid	11/08/12 11:02	11/09/12 09:15
240-17414-10	SB2724	Solid	11/08/12 11:02	11/09/12 09:15
240-17414-11	SB2602	Solid	11/08/12 11:06	11/09/12 09:15
240-17414-12	SB2624	Solid	11/08/12 11:06	11/09/12 09:15
240-17414-13	SB2502	Solid	11/08/12 11:11	11/09/12 09:15
240-17414-14	SB2524	Solid	11/08/12 11:11	11/09/12 09:15
240-17414-15	SB2802	Solid	11/08/12 11:14	11/09/12 09:15
240-17414-16	SB2824	Solid	11/08/12 11:14	11/09/12 09:15
240-17414-17	DUPLICATE	Solid	11/08/12 11:06	11/09/12 09:15

Detection Summary

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2102 — Lab Sample ID: 240-17414-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	200000		1800		ug/Kg	250	☼	8270C	Total/NA
Benzo[a]pyrene	160000		1800		ug/Kg	250	☼	8270C	Total/NA
Benzo[g,h,i]perylene	78000		1800		ug/Kg	250	☼	8270C	Total/NA
Benzo[k]fluoranthene	74000		1800		ug/Kg	250	☼	8270C	Total/NA
Anthracene	62000		1800		ug/Kg	250	☼	8270C	Total/NA
Chrysene	230000		1800		ug/Kg	250	☼	8270C	Total/NA
Dibenz(a,h)anthracene	15000		1800		ug/Kg	250	☼	8270C	Total/NA
Fluoranthene	530000	E	1800		ug/Kg	250	☼	8270C	Total/NA
Fluorene	30000		1800		ug/Kg	250	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	72000		1800		ug/Kg	250	☼	8270C	Total/NA
Phenanthrene	360000		1800		ug/Kg	250	☼	8270C	Total/NA
Pyrene	400000		1800		ug/Kg	250	☼	8270C	Total/NA
Acenaphthene	34000		1800		ug/Kg	250	☼	8270C	Total/NA
Naphthalene	5100		1800		ug/Kg	250	☼	8270C	Total/NA
2-Methylnaphthalene	5700		1800		ug/Kg	250	☼	8270C	Total/NA
Fluoranthene - RA	360000		4500		ug/Kg	625	☼	8270C	Total/NA

Client Sample ID: SB2124 — Lab Sample ID: 240-17414-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	330		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	250		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	150		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	180		7.2		ug/Kg	1	☼	8270C	Total/NA
Anthracene	130		7.2		ug/Kg	1	☼	8270C	Total/NA
Chrysene	330		7.2		ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	43		7.2		ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	700		7.2		ug/Kg	1	☼	8270C	Total/NA
Fluorene	54		7.2		ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	130		7.2		ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	560		7.2		ug/Kg	1	☼	8270C	Total/NA
Pyrene	500		7.2		ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	73		7.2		ug/Kg	1	☼	8270C	Total/NA
Naphthalene	28		7.2		ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	51		7.2		ug/Kg	1	☼	8270C	Total/NA

Client Sample ID: SB2202 — Lab Sample ID: 240-17414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	4100		52		ug/Kg	6.667	☼	8270C	Total/NA
Benzo[a]pyrene	4000		52		ug/Kg	6.667	☼	8270C	Total/NA
Benzo[g,h,i]perylene	2700		52		ug/Kg	6.667	☼	8270C	Total/NA
Benzo[k]fluoranthene	2900		52		ug/Kg	6.667	☼	8270C	Total/NA
Anthracene	690		52		ug/Kg	6.667	☼	8270C	Total/NA
Chrysene	4000		52		ug/Kg	6.667	☼	8270C	Total/NA
Dibenz(a,h)anthracene	690		52		ug/Kg	6.667	☼	8270C	Total/NA
Fluoranthene	8100		52		ug/Kg	6.667	☼	8270C	Total/NA
Fluorene	240		52		ug/Kg	6.667	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	2500		52		ug/Kg	6.667	☼	8270C	Total/NA
Phenanthrene	3600		52		ug/Kg	6.667	☼	8270C	Total/NA
Pyrene	6700		52		ug/Kg	6.667	☼	8270C	Total/NA
Acenaphthene	290		52		ug/Kg	6.667	☼	8270C	Total/NA

Client Sample ID: SB2202 (Continued) — Lab Sample ID: 240-17414-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	62		52		ug/Kg	6.667	☼	8270C	Total/NA
2-Methylnaphthalene	84		52		ug/Kg	6.667	☼	8270C	Total/NA

Client Sample ID: SB2224 — Lab Sample ID: 240-17414-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3600		71		ug/Kg	10	☼	8270C	Total/NA
Benzo[a]pyrene	4300		71		ug/Kg	10	☼	8270C	Total/NA
Benzo[g,h,i]perylene	2500		71		ug/Kg	10	☼	8270C	Total/NA
Benzo[k]fluoranthene	1600		71		ug/Kg	10	☼	8270C	Total/NA
Anthracene	1000		71		ug/Kg	10	☼	8270C	Total/NA
Chrysene	4800		71		ug/Kg	10	☼	8270C	Total/NA
Dibenz(a,h)anthracene	730		71		ug/Kg	10	☼	8270C	Total/NA
Fluoranthene	8300		71		ug/Kg	10	☼	8270C	Total/NA
Fluorene	260		71		ug/Kg	10	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	1900		71		ug/Kg	10	☼	8270C	Total/NA
Phenanthrene	3600		71		ug/Kg	10	☼	8270C	Total/NA
Pyrene	6700		71		ug/Kg	10	☼	8270C	Total/NA
Acenaphthene	320		71		ug/Kg	10	☼	8270C	Total/NA

Client Sample ID: SB2302 — Lab Sample ID: 240-17414-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	5400		73		ug/Kg	10	☼	8270C	Total/NA
Benzo[a]pyrene	5500		73		ug/Kg	10	☼	8270C	Total/NA
Benzo[g,h,i]perylene	3400		73		ug/Kg	10	☼	8270C	Total/NA
Benzo[k]fluoranthene	3900		73		ug/Kg	10	☼	8270C	Total/NA
Anthracene	900		73		ug/Kg	10	☼	8270C	Total/NA
Chrysene	5200		73		ug/Kg	10	☼	8270C	Total/NA
Dibenz(a,h)anthracene	830		73		ug/Kg	10	☼	8270C	Total/NA
Fluoranthene	11000		73		ug/Kg	10	☼	8270C	Total/NA
Fluorene	290		73		ug/Kg	10	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	3200		73		ug/Kg	10	☼	8270C	Total/NA
Phenanthrene	4200		73		ug/Kg	10	☼	8270C	Total/NA
Pyrene	9000		73		ug/Kg	10	☼	8270C	Total/NA
Acenaphthene	360		73		ug/Kg	10	☼	8270C	Total/NA

Client Sample ID: SB2324 — Lab Sample ID: 240-17414-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	460		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	450		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	220		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	260		29		ug/Kg	4	☼	8270C	Total/NA
Anthracene	130		29		ug/Kg	4	☼	8270C	Total/NA
Chrysene	580		29		ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	1200		29		ug/Kg	4	☼	8270C	Total/NA
Fluorene	46		29		ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	180		29		ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	660		29		ug/Kg	4	☼	8270C	Total/NA
Pyrene	900		29		ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	54		29		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2402 — Lab Sample ID: 240-17414-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	740		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	630		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	280		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	320		29		ug/Kg	4	☼	8270C	Total/NA
Anthracene	330		29		ug/Kg	4	☼	8270C	Total/NA
Chrysene	800		29		ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	1700		29		ug/Kg	4	☼	8270C	Total/NA
Fluorene	150		29		ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	240		29		ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	1400		29		ug/Kg	4	☼	8270C	Total/NA
Pyrene	1300		29		ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	140		29		ug/Kg	4	☼	8270C	Total/NA
Naphthalene	60		29		ug/Kg	4	☼	8270C	Total/NA
2-Methylnaphthalene	92		29		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2424 — Lab Sample ID: 240-17414-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	44		7.5		ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	36		7.5		ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	27		7.5		ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	24		7.5		ug/Kg	1	☼	8270C	Total/NA
Anthracene	16		7.5		ug/Kg	1	☼	8270C	Total/NA
Chrysene	50		7.5		ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	83		7.5		ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	20		7.5		ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	67		7.5		ug/Kg	1	☼	8270C	Total/NA
Pyrene	68		7.5		ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	8.1		7.5		ug/Kg	1	☼	8270C	Total/NA

Client Sample ID: SB2702 — Lab Sample ID: 240-17414-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7300		88		ug/Kg	12.5	☼	8270C	Total/NA
Benzo[a]pyrene	7800		88		ug/Kg	12.5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	5000		88		ug/Kg	12.5	☼	8270C	Total/NA
Benzo[k]fluoranthene	4100		88		ug/Kg	12.5	☼	8270C	Total/NA
Anthracene	1300		88		ug/Kg	12.5	☼	8270C	Total/NA
Chrysene	8000		88		ug/Kg	12.5	☼	8270C	Total/NA
Dibenz(a,h)anthracene	1200		88		ug/Kg	12.5	☼	8270C	Total/NA
Fluoranthene	15000		88		ug/Kg	12.5	☼	8270C	Total/NA
Fluorene	450		88		ug/Kg	12.5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	4400		88		ug/Kg	12.5	☼	8270C	Total/NA
Phenanthrene	5900		88		ug/Kg	12.5	☼	8270C	Total/NA
Pyrene	12000		88		ug/Kg	12.5	☼	8270C	Total/NA
Acenaphthene	500		88		ug/Kg	12.5	☼	8270C	Total/NA
Acenaphthylene	94		88		ug/Kg	12.5	☼	8270C	Total/NA

Client Sample ID: SB2724 — Lab Sample ID: 240-17414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	74		29		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2724 (Continued) — Lab Sample ID: 240-17414-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]pyrene	75		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	43		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	63		29		ug/Kg	4	☼	8270C	Total/NA
Chrysene	110		29		ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	190		29		ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	33		29		ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	97		29		ug/Kg	4	☼	8270C	Total/NA
Pyrene	170		29		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2602 — Lab Sample ID: 240-17414-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1100		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	1200		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[g,h,i]perylene	570		29		ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	510		29		ug/Kg	4	☼	8270C	Total/NA
Anthracene	280		29		ug/Kg	4	☼	8270C	Total/NA
Chrysene	1400		29		ug/Kg	4	☼	8270C	Total/NA
Dibenz(a,h)anthracene	210		29		ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	2600		29		ug/Kg	4	☼	8270C	Total/NA
Fluorene	120		29		ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	580		29		ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	1400		29		ug/Kg	4	☼	8270C	Total/NA
Pyrene	2000		29		ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	120		29		ug/Kg	4	☼	8270C	Total/NA
Naphthalene	29		29		ug/Kg	4	☼	8270C	Total/NA
2-Methylnaphthalene	42		29		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2624 — Lab Sample ID: 240-17414-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	3200		72		ug/Kg	10	☼	8270C	Total/NA
Benzo[a]pyrene	2400		72		ug/Kg	10	☼	8270C	Total/NA
Benzo[g,h,i]perylene	1300		72		ug/Kg	10	☼	8270C	Total/NA
Benzo[k]fluoranthene	1700		72		ug/Kg	10	☼	8270C	Total/NA
Anthracene	1900		72		ug/Kg	10	☼	8270C	Total/NA
Chrysene	3100		72		ug/Kg	10	☼	8270C	Total/NA
Dibenz(a,h)anthracene	390		72		ug/Kg	10	☼	8270C	Total/NA
Fluoranthene	8100		72		ug/Kg	10	☼	8270C	Total/NA
Fluorene	1400		72		ug/Kg	10	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	1200		72		ug/Kg	10	☼	8270C	Total/NA
Phenanthrene	8700		72		ug/Kg	10	☼	8270C	Total/NA
Pyrene	6300		72		ug/Kg	10	☼	8270C	Total/NA
Acenaphthene	990		72		ug/Kg	10	☼	8270C	Total/NA
Naphthalene	98		72		ug/Kg	10	☼	8270C	Total/NA
2-Methylnaphthalene	120		72		ug/Kg	10	☼	8270C	Total/NA

Client Sample ID: SB2502 — Lab Sample ID: 240-17414-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	1300		30		ug/Kg	4	☼	8270C	Total/NA
Benzo[a]pyrene	1200		30		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2502 (Continued)

Lab Sample ID: 240-17414-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene	680		30		ug/Kg	4	☼	8270C	Total/NA
Benzo[k]fluoranthene	750		30		ug/Kg	4	☼	8270C	Total/NA
Anthracene	300		30		ug/Kg	4	☼	8270C	Total/NA
Chrysene	1400		30		ug/Kg	4	☼	8270C	Total/NA
Dibenz(a,h)anthracene	180		30		ug/Kg	4	☼	8270C	Total/NA
Fluoranthene	2900		30		ug/Kg	4	☼	8270C	Total/NA
Fluorene	120		30		ug/Kg	4	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	580		30		ug/Kg	4	☼	8270C	Total/NA
Phenanthrene	1600		30		ug/Kg	4	☼	8270C	Total/NA
Pyrene	2200		30		ug/Kg	4	☼	8270C	Total/NA
Acenaphthene	130		30		ug/Kg	4	☼	8270C	Total/NA
Naphthalene	31		30		ug/Kg	4	☼	8270C	Total/NA
2-Methylnaphthalene	44		30		ug/Kg	4	☼	8270C	Total/NA

Client Sample ID: SB2524

Lab Sample ID: 240-17414-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	560		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	440		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	290		7.2		ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	180		7.2		ug/Kg	1	☼	8270C	Total/NA
Anthracene	150		7.2		ug/Kg	1	☼	8270C	Total/NA
Chrysene	600		7.2		ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	77		7.2		ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	1400		7.2		ug/Kg	1	☼	8270C	Total/NA
Fluorene	59		7.2		ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	280		7.2		ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	800		7.2		ug/Kg	1	☼	8270C	Total/NA
Pyrene	1000		7.2		ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	66		7.2		ug/Kg	1	☼	8270C	Total/NA
Naphthalene	12		7.2		ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	21		7.2		ug/Kg	1	☼	8270C	Total/NA

Client Sample ID: SB2802

Lab Sample ID: 240-17414-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	600		14		ug/Kg	2	☼	8270C	Total/NA
Benzo[a]pyrene	540		14		ug/Kg	2	☼	8270C	Total/NA
Benzo[g,h,i]perylene	360		14		ug/Kg	2	☼	8270C	Total/NA
Benzo[k]fluoranthene	420		14		ug/Kg	2	☼	8270C	Total/NA
Anthracene	110		14		ug/Kg	2	☼	8270C	Total/NA
Chrysene	650		14		ug/Kg	2	☼	8270C	Total/NA
Dibenz(a,h)anthracene	89		14		ug/Kg	2	☼	8270C	Total/NA
Fluoranthene	1400		14		ug/Kg	2	☼	8270C	Total/NA
Fluorene	40		14		ug/Kg	2	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	340		14		ug/Kg	2	☼	8270C	Total/NA
Phenanthrene	650		14		ug/Kg	2	☼	8270C	Total/NA
Pyrene	1000		14		ug/Kg	2	☼	8270C	Total/NA
Acenaphthene	48		14		ug/Kg	2	☼	8270C	Total/NA
Naphthalene	25		14		ug/Kg	2	☼	8270C	Total/NA
2-Methylnaphthalene	41		14		ug/Kg	2	☼	8270C	Total/NA

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2824

Lab Sample ID: 240-17414-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	79		19		ug/Kg	2.5	☼	8270C	Total/NA
Benzo[a]pyrene	78		19		ug/Kg	2.5	☼	8270C	Total/NA
Benzo[g,h,i]perylene	44		19		ug/Kg	2.5	☼	8270C	Total/NA
Benzo[k]fluoranthene	30		19		ug/Kg	2.5	☼	8270C	Total/NA
Anthracene	31		19		ug/Kg	2.5	☼	8270C	Total/NA
Chrysene	110		19		ug/Kg	2.5	☼	8270C	Total/NA
Fluoranthene	170		19		ug/Kg	2.5	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	34		19		ug/Kg	2.5	☼	8270C	Total/NA
Phenanthrene	130		19		ug/Kg	2.5	☼	8270C	Total/NA
Pyrene	140		19		ug/Kg	2.5	☼	8270C	Total/NA
Naphthalene	26		19		ug/Kg	2.5	☼	8270C	Total/NA
2-Methylnaphthalene	49		19		ug/Kg	2.5	☼	8270C	Total/NA

Client Sample ID: DUPLICATE

Lab Sample ID: 240-17414-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	190		7.3		ug/Kg	1	☼	8270C	Total/NA
Benzo[a]pyrene	150		7.3		ug/Kg	1	☼	8270C	Total/NA
Benzo[g,h,i]perylene	100		7.3		ug/Kg	1	☼	8270C	Total/NA
Benzo[k]fluoranthene	69		7.3		ug/Kg	1	☼	8270C	Total/NA
Anthracene	63		7.3		ug/Kg	1	☼	8270C	Total/NA
Chrysene	210		7.3		ug/Kg	1	☼	8270C	Total/NA
Dibenz(a,h)anthracene	25		7.3		ug/Kg	1	☼	8270C	Total/NA
Fluoranthene	390		7.3		ug/Kg	1	☼	8270C	Total/NA
Fluorene	22		7.3		ug/Kg	1	☼	8270C	Total/NA
Indeno[1,2,3-cd]pyrene	84		7.3		ug/Kg	1	☼	8270C	Total/NA
Phenanthrene	280		7.3		ug/Kg	1	☼	8270C	Total/NA
Pyrene	310		7.3		ug/Kg	1	☼	8270C	Total/NA
Acenaphthene	26		7.3		ug/Kg	1	☼	8270C	Total/NA
Naphthalene	8.9		7.3		ug/Kg	1	☼	8270C	Total/NA
2-Methylnaphthalene	14		7.3		ug/Kg	1	☼	8270C	Total/NA

Client Sample ID: SB2102
Date Collected: 11/08/12 10:38
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-1
Matrix: Solid
Percent Solids: 92.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	200000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Benzo[a]pyrene	160000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Benzo[g,h,i]perylene	78000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Benzo[k]fluoranthene	74000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Anthracene	62000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Chrysene	230000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Dibenz(a,h)anthracene	15000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Fluoranthene	530000	E	1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Fluorene	30000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Indeno[1,2,3-cd]pyrene	72000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Phenanthrene	360000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Pyrene	400000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Acenaphthene	34000		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Acenaphthylene	1800	U	1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
Naphthalene	5100		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250
2-Methylnaphthalene	5700		1800		ug/Kg	☼	11/20/12 11:40	11/23/12 18:36	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*X*	*24 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*
2-Fluorophenol (Surr)	*0*	*X*	*24 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*10 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*
Nitrobenzene-d5 (Surr)	*0*	*X*	*20 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*
Phenol-d5 (Surr)	*0*	*X*	*26 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*
Terphenyl-d14 (Surr)	*0*	*X*	*36 - 110*	*11/20/12 11:40*	*11/23/12 18:36*	*250*

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	360000		4500		ug/Kg	☼	11/20/12 11:40	11/26/12 21:47	625

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*X*	*24 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*
2-Fluorophenol (Surr)	*0*	*X*	*24 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*
2,4,6-Tribromophenol (Surr)	*0*	*X*	*10 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*
Nitrobenzene-d5 (Surr)	*0*	*X*	*20 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*
Phenol-d5 (Surr)	*0*	*X*	*26 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*
Terphenyl-d14 (Surr)	*0*	*X*	*36 - 110*	*11/20/12 11:40*	*11/26/12 21:47*	*625*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2124
Date Collected: 11/08/12 10:38
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-2
Matrix: Solid
Percent Solids: 93.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	330		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Benzo[a]pyrene	250		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Benzo[g,h,i]perylene	150		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Benzo[k]fluoranthene	180		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Anthracene	130		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Chrysene	330		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Dibenz(a,h)anthracene	43		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Fluoranthene	700		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Fluorene	54		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Indeno[1,2,3-cd]pyrene	130		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Phenanthrene	560		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Pyrene	500		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Acenaphthene	73		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Acenaphthylene	7.2	U	7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
Naphthalene	28		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1
2-Methylnaphthalene	51		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*24 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*
2-Fluorophenol (Surr)	*62*		*24 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*10 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*
Nitrobenzene-d5 (Surr)	*52*		*20 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*
Phenol-d5 (Surr)	*68*		*26 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*
Terphenyl-d14 (Surr)	*74*		*36 - 110*	*11/20/12 11:40*	*11/23/12 16:49*	*1*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2202
Date Collected: 11/08/12 10:44
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-3
Matrix: Solid
Percent Solids: 86.5

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	4100		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Benzo[a]pyrene	4000		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Benzo[g,h,i]perylene	2700		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Benzo[k]fluoranthene	2900		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Anthracene	690		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Chrysene	4000		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Dibenz(a,h)anthracene	690		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Fluoranthene	8100		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Fluorene	240		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Indeno[1,2,3-cd]pyrene	2500		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Phenanthrene	3600		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Pyrene	6700		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Acenaphthene	290		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Acenaphthylene	52	U	52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
Naphthalene	62		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667
2-Methylnaphthalene	84		52		ug/Kg	☼	11/20/12 11:40	11/23/12 18:00	6.667

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*
2-Fluorophenol (Surr)	*66*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*
2,4,6-Tribromophenol (Surr)	*42*		*10 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*
Nitrobenzene-d5 (Surr)	*55*		*20 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*
Phenol-d5 (Surr)	*68*		*26 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*
Terphenyl-d14 (Surr)	*73*		*36 - 110*	*11/20/12 11:40*	*11/23/12 18:00*	*6.667*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2224
Date Collected: 11/08/12 10:44
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-4
Matrix: Solid
Percent Solids: 93.8

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	3600		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Benzo[a]pyrene	4300		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Benzo[g,h,i]perylene	2500		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Benzo[k]fluoranthene	1600		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Anthracene	1000		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Chrysene	4800		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Dibenz(a,h)anthracene	730		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Fluoranthene	8300		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Fluorene	260		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Indeno[1,2,3-cd]pyrene	1900		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Phenanthrene	3600		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Pyrene	6700		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Acenaphthene	320		71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Acenaphthylene	71	U	71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
Naphthalene	71	U	71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10
2-Methylnaphthalene	71	U	71		ug/Kg	☼	11/20/12 11:40	11/23/12 20:24	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*
2-Fluorophenol (Surr)	*72*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*
2,4,6-Tribromophenol (Surr)	*41*		*10 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*
Nitrobenzene-d5 (Surr)	*54*		*20 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*
Phenol-d5 (Surr)	*76*		*26 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*
Terphenyl-d14 (Surr)	*83*		*36 - 110*	*11/20/12 11:40*	*11/23/12 20:24*	*10*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2302
Date Collected: 11/08/12 10:55
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-5
Matrix: Solid
Percent Solids: 93.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	5400		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Benzo[a]pyrene	5500		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Benzo[g,h,i]perylene	3400		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Benzo[k]fluoranthene	3900		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Anthracene	900		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Chrysene	5200		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Dibenz(a,h)anthracene	830		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Fluoranthene	11000		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Fluorene	290		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Indeno[1,2,3-cd]pyrene	3200		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Phenanthrene	4200		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Pyrene	9000		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Acenaphthene	360		73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Acenaphthylene	73	U	73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
Naphthalene	73	U	73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10
2-Methylnaphthalene	73	U	73		ug/Kg	☼	11/20/12 11:40	11/23/12 17:43	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*
2-Fluorophenol (Surr)	*67*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*
2,4,6-Tribromophenol (Surr)	*58*		*10 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*
Nitrobenzene-d5 (Surr)	*56*		*20 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*
Phenol-d5 (Surr)	*66*		*26 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*
Terphenyl-d14 (Surr)	*72*		*36 - 110*	*11/20/12 11:40*	*11/23/12 17:43*	*10*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2324
Date Collected: 11/08/12 10:55
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-6
Matrix: Solid
Percent Solids: 91.1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**460**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Benzo[a]pyrene	**450**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Benzo[g,h,i]perylene	**220**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Benzo[k]fluoranthene	**260**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Anthracene	**130**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Chrysene	**580**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Dibenz(a,h)anthracene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Fluoranthene	**1200**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Fluorene	**46**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Indeno[1,2,3-cd]pyrene	**180**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Phenanthrene	**660**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Pyrene	**900**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Acenaphthene	**54**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Acenaphthylene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
Naphthalene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4
2-Methylnaphthalene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 20:06	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*
2-Fluorophenol (Surr)	*59*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*
2,4,6-Tribromophenol (Surr)	*35*		*10 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*
Nitrobenzene-d5 (Surr)	*48*		*20 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*
Phenol-d5 (Surr)	*60*		*26 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*
Terphenyl-d14 (Surr)	*78*		*36 - 110*	*11/20/12 11:40*	*11/23/12 20:06*	*4*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2402
Date Collected: 11/08/12 10:59
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-7
Matrix: Solid
Percent Solids: 90.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**740**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Benzo[a]pyrene	**630**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Benzo[g,h,i]perylene	**280**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Benzo[k]fluoranthene	**320**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Anthracene	**330**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Chrysene	**800**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Dibenz(a,h)anthracene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Fluoranthene	**1700**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Fluorene	**150**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Indeno[1,2,3-cd]pyrene	**240**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Phenanthrene	**1400**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Pyrene	**1300**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Acenaphthene	**140**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Acenaphthylene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
Naphthalene	**60**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4
2-Methylnaphthalene	**92**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:48	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*
2-Fluorophenol (Surr)	*63*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*
2,4,6-Tribromophenol (Surr)	*57*		*10 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*
Nitrobenzene-d5 (Surr)	*50*		*20 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*
Phenol-d5 (Surr)	*61*		*26 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*
Terphenyl-d14 (Surr)	*77*		*36 - 110*	*11/20/12 11:40*	*11/23/12 19:48*	*4*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2424
Date Collected: 11/08/12 10:59
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-8
Matrix: Solid
Percent Solids: 90.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**44**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Benzo[a]pyrene	**36**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Benzo[g,h,i]perylene	**27**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Benzo[k]fluoranthene	**24**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Anthracene	**16**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Chrysene	**50**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Dibenz(a,h)anthracene	7.5	U	7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Fluoranthene	**83**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Fluorene	7.5	U	7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Indeno[1,2,3-cd]pyrene	**20**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Phenanthrene	**67**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Pyrene	**68**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Acenaphthene	7.5	U	7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Acenaphthylene	7.5	U	7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
Naphthalene	7.5	U	7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1
2-Methylnaphthalene	**8.1**		7.5		ug/Kg	☼	11/20/12 11:40	11/23/12 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*56*		*24 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*
2-Fluorophenol (Surr)	*60*		*24 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*
2,4,6-Tribromophenol (Surr)	*44*		*10 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*
Nitrobenzene-d5 (Surr)	*49*		*20 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*
Phenol-d5 (Surr)	*62*		*26 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*
Terphenyl-d14 (Surr)	*68*		*36 - 110*	*11/20/12 11:40*	*11/23/12 15:01*	*1*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2702
Date Collected: 11/08/12 11:02
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-9
Matrix: Solid
Percent Solids: 95.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	7300		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Benzo[a]pyrene	7800		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Benzo[g,h,i]perylene	5000		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Benzo[k]fluoranthene	4100		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Anthracene	1300		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Chrysene	8000		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Dibenz(a,h)anthracene	1200		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Fluoranthene	15000		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Fluorene	450		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Indeno[1,2,3-cd]pyrene	4400		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Phenanthrene	5900		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Pyrene	12000		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Acenaphthene	500		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Acenaphthylene	94		88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
Naphthalene	88	U	88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5
2-Methylnaphthalene	88	U	88		ug/Kg	☼	11/20/12 11:40	11/23/12 18:18	12.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*
2-Fluorophenol (Surr)	*66*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*
2,4,6-Tribromophenol (Surr)	*48*		*10 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*
Nitrobenzene-d5 (Surr)	*48*		*20 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*
Phenol-d5 (Surr)	*64*		*26 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*
Terphenyl-d14 (Surr)	*73*		*36 - 110*	*11/20/12 11:40*	*11/23/12 18:18*	*12.5*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2724
Date Collected: 11/08/12 11:02
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-10
Matrix: Solid
Percent Solids: 91.4

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**74**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Benzo[a]pyrene	**75**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Benzo[g,h,i]perylene	**43**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Benzo[k]fluoranthene	**63**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Anthracene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Chrysene	**110**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Dibenz(a,h)anthracene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Fluoranthene	**190**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Fluorene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Indeno[1,2,3-cd]pyrene	**33**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Phenanthrene	**97**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Pyrene	**170**		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Acenaphthene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Acenaphthylene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
Naphthalene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4
2-Methylnaphthalene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:30	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*
2-Fluorophenol (Surr)	*56*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*
2,4,6-Tribromophenol (Surr)	*49*		*10 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*
Nitrobenzene-d5 (Surr)	*42*		*20 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*
Phenol-d5 (Surr)	*56*		*26 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*
Terphenyl-d14 (Surr)	*76*		*36 - 110*	*11/20/12 11:40*	*11/23/12 19:30*	*4*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2602
Date Collected: 11/08/12 11:06
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-11
Matrix: Solid
Percent Solids: 92.9

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1100		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Benzo[a]pyrene	1200		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Benzo[g,h,i]perylene	570		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Benzo[k]fluoranthene	510		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Anthracene	280		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Chrysene	1400		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Dibenz(a,h)anthracene	210		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Fluoranthene	2600		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Fluorene	120		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Indeno[1,2,3-cd]pyrene	580		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Phenanthrene	1400		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Pyrene	2000		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Acenaphthene	120		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Acenaphthylene	29	U	29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
Naphthalene	29		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4
2-Methylnaphthalene	42		29		ug/Kg	☼	11/20/12 11:40	11/23/12 19:12	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*63*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*
2-Fluorophenol (Surr)	*66*		*24 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*
2,4,6-Tribromophenol (Surr)	*51*		*10 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*
Nitrobenzene-d5 (Surr)	*53*		*20 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*
Phenol-d5 (Surr)	*66*		*26 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*
Terphenyl-d14 (Surr)	*71*		*36 - 110*	*11/20/12 11:40*	*11/23/12 19:12*	*4*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2624
Date Collected: 11/08/12 11:06
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-12
Matrix: Solid
Percent Solids: 93.0

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	3200		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Benzo[a]pyrene	2400		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Benzo[g,h,i]perylene	1300		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Benzo[k]fluoranthene	1700		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Anthracene	1900		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Chrysene	3100		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Dibenz(a,h)anthracene	390		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Fluoranthene	8100		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Fluorene	1400		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Indeno[1,2,3-cd]pyrene	1200		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Phenanthrene	8700		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Pyrene	6300		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Acenaphthene	990		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Acenaphthylene	72	U	72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
Naphthalene	98		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10
2-Methylnaphthalene	120		72		ug/Kg	☼	11/20/12 11:40	11/23/12 17:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*
2-Fluorophenol (Surr)	*61*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*
2,4,6-Tribromophenol (Surr)	*61*		*10 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*
Nitrobenzene-d5 (Surr)	*49*		*20 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*
Phenol-d5 (Surr)	*66*		*26 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*
Terphenyl-d14 (Surr)	*87*		*36 - 110*	*11/20/12 11:40*	*11/23/12 17:25*	*10*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2502
Date Collected: 11/08/12 11:11
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-13
Matrix: Solid
Percent Solids: 88.3

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	1300		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Benzo[a]pyrene	1200		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Benzo[g,h,i]perylene	680		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Benzo[k]fluoranthene	750		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Anthracene	300		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Chrysene	1400		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Dibenz(a,h)anthracene	180		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Fluoranthene	2900		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Fluorene	120		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Indeno[1,2,3-cd]pyrene	580		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Phenanthrene	1600		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Pyrene	2200		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Acenaphthene	130		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Acenaphthylene	30	U	30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
Naphthalene	31		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4
2-Methylnaphthalene	44		30		ug/Kg	☼	11/20/12 11:40	11/23/12 18:54	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*
2-Fluorophenol (Surr)	*68*		*24 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*
2,4,6-Tribromophenol (Surr)	*55*		*10 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*
Nitrobenzene-d5 (Surr)	*56*		*20 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*
Phenol-d5 (Surr)	*71*		*26 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*
Terphenyl-d14 (Surr)	*79*		*36 - 110*	*11/20/12 11:40*	*11/23/12 18:54*	*4*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2524
Date Collected: 11/08/12 11:11
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-14
Matrix: Solid
Percent Solids: 93.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	560		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Benzo[a]pyrene	440		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Benzo[g,h,i]perylene	290		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Benzo[k]fluoranthene	180		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Anthracene	150		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Chrysene	600		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Dibenz(a,h)anthracene	77		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Fluoranthene	1400		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Fluorene	59		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Indeno[1,2,3-cd]pyrene	280		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Phenanthrene	800		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Pyrene	1000		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Acenaphthene	66		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Acenaphthylene	7.2	U	7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
Naphthalene	12		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1
2-Methylnaphthalene	21		7.2		ug/Kg	☼	11/20/12 11:40	11/23/12 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*59*		*24 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*
2-Fluorophenol (Surr)	*63*		*24 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*45*		*10 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*
Nitrobenzene-d5 (Surr)	*50*		*20 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*
Phenol-d5 (Surr)	*69*		*26 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*
Terphenyl-d14 (Surr)	*75*		*36 - 110*	*11/20/12 11:40*	*11/23/12 16:31*	*1*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2802
Date Collected: 11/08/12 11:14
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-15
Matrix: Solid
Percent Solids: 92.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	600		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Benzo[a]pyrene	540		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Benzo[g,h,i]perylene	360		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Benzo[k]fluoranthene	420		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Anthracene	110		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Chrysene	650		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Dibenz(a,h)anthracene	89		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Fluoranthene	1400		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Fluorene	40		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Indeno[1,2,3-cd]pyrene	340		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Phenanthrene	650		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Pyrene	1000		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Acenaphthene	48		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Acenaphthylene	14	U	14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
Naphthalene	25		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2
2-Methylnaphthalene	41		14		ug/Kg	☼	11/20/12 11:40	11/23/12 17:07	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*60*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*
2-Fluorophenol (Surr)	*64*		*24 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*
2,4,6-Tribromophenol (Surr)	*41*		*10 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*
Nitrobenzene-d5 (Surr)	*50*		*20 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*
Phenol-d5 (Surr)	*66*		*26 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*
Terphenyl-d14 (Surr)	*67*		*36 - 110*	*11/20/12 11:40*	*11/23/12 17:07*	*2*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2824
Date Collected: 11/08/12 11:14
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-16
Matrix: Solid
Percent Solids: 89.7

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**79**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Benzo[a]pyrene	**78**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Benzo[g,h,i]perylene	**44**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Benzo[k]fluoranthene	**30**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Anthracene	**31**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Chrysene	**110**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Dibenz(a,h)anthracene	19	U	19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Fluoranthene	**170**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Fluorene	19	U	19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Indeno[1,2,3-cd]pyrene	**34**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Phenanthrene	**130**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Pyrene	**140**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Acenaphthene	19	U	19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Acenaphthylene	19	U	19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
Naphthalene	**26**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5
2-Methylnaphthalene	**49**		19		ug/Kg	☼	11/20/12 11:40	11/23/12 20:42	2.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*
2-Fluorophenol (Surr)	*57*		*24 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*
2,4,6-Tribromophenol (Surr)	*46*		*10 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*
Nitrobenzene-d5 (Surr)	*43*		*20 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*
Phenol-d5 (Surr)	*60*		*26 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*
Terphenyl-d14 (Surr)	*73*		*36 - 110*	*11/20/12 11:40*	*11/23/12 20:42*	*2.5*

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: DUPLICATE
Date Collected: 11/08/12 11:06
Date Received: 11/09/12 09:15

Lab Sample ID: 240-17414-17
Matrix: Solid
Percent Solids: 92.6

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	190		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Benzo[a]pyrene	150		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Benzo[g,h,i]perylene	100		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Benzo[k]fluoranthene	69		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Anthracene	63		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Chrysene	210		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Dibenz(a,h)anthracene	25		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Fluoranthene	390		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Fluorene	22		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Indeno[1,2,3-cd]pyrene	84		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Phenanthrene	280		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Pyrene	310		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Acenaphthene	26		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Acenaphthylene	7.3	U	7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
Naphthalene	8.9		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1
2-Methylnaphthalene	14		7.3		ug/Kg	☼	11/20/12 11:40	11/23/12 15:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*69*		*24 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*
2-Fluorophenol (Surr)	*71*		*24 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*10 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*
Nitrobenzene-d5 (Surr)	*61*		*20 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*
Phenol-d5 (Surr)	*74*		*26 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*
Terphenyl-d14 (Surr)	*91*		*36 - 110*	*11/20/12 11:40*	*11/23/12 15:37*	*1*

Surrogate Summary

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		FBP	2FP	TBP	NBZ	PHL	TPH		
Lab Sample ID	Client Sample ID	(24-110)	(24-110)	(10-110)	(20-110)	(26-110)	(36-110)		
240-17414-1	SB2102	0 X	0 X	0 X	0 X	0 X	0 X		
240-17414-1 - RA	SB2102	0 X	0 X	0 X	0 X	0 X	0 X		
240-17414-2	SB2124	64	62	59	52	68	74		
240-17414-3	SB2202	65	66	42	55	68	73		
240-17414-4	SB2224	69	72	41	54	76	83		
240-17414-5	SB2302	63	67	58	56	66	72		
240-17414-6	SB2324	63	59	35	48	60	78		
240-17414-7	SB2402	64	63	57	50	61	77		
240-17414-8	SB2424	56	60	44	49	62	68		
240-17414-9	SB2702	66	66	48	48	64	73		
240-17414-10	SB2724	59	56	49	42	56	76		
240-17414-11	SB2602	63	66	51	53	66	71		
240-17414-12	SB2624	69	61	61	49	66	87		
240-17414-13	SB2502	71	68	55	56	71	79		
240-17414-14	SB2524	59	63	45	50	69	75		
240-17414-15	SB2802	60	64	41	50	66	67		
240-17414-16	SB2824	58	57	46	43	60	73		
240-17414-17	DUPLICATE	69	71	69	61	74	91		
240-17414-17 MS	DUPLICATE	61	61	62	53	67	68		
240-17414-17 MSD	DUPLICATE	63	60	64	50	67	69		
LCS 240-65772/24-A	Lab Control Sample	72	76	74	66	79	89		
MB 240-65772/23-A	Method Blank	52	58	49	50	59	83		

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-65772/23-A
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65772

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Benzo[a]pyrene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Benzo[g,h,i]perylene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Benzo[k]fluoranthene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Anthracene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Chrysene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Dibenz(a,h)anthracene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Fluoranthene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Fluorene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Indeno[1,2,3-cd]pyrene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Phenanthrene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Pyrene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Acenaphthene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Acenaphthylene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
Naphthalene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1
2-Methylnaphthalene	6.7	U	6.7		ug/Kg		11/20/12 11:40	11/23/12 12:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*52*		*24 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*
2-Fluorophenol (Surr)	*58*		*24 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*
2,4,6-Tribromophenol (Surr)	*49*		*10 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*
Nitrobenzene-d5 (Surr)	*50*		*20 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*
Phenol-d5 (Surr)	*59*		*26 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*
Terphenyl-d14 (Surr)	*83*		*36 - 110*	*11/20/12 11:40*	*11/23/12 12:54*	*1*

Lab Sample ID: LCS 240-65772/24-A
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	667	530		ug/Kg		80	50 - 110
Benzo[a]pyrene	667	472		ug/Kg		71	44 - 110
Benzo[b]fluoranthene	667	546		ug/Kg		82	43 - 110
Benzo[g,h,i]perylene	667	530		ug/Kg		80	51 - 110
Benzo[k]fluoranthene	667	500		ug/Kg		75	38 - 105
Anthracene	667	522		ug/Kg		78	48 - 110
Chrysene	667	559		ug/Kg		84	50 - 110
Dibenz(a,h)anthracene	667	537		ug/Kg		81	51 - 110
Fluoranthene	667	554		ug/Kg		83	51 - 110
Fluorene	667	507		ug/Kg		76	46 - 110
Indeno[1,2,3-cd]pyrene	667	530		ug/Kg		79	50 - 110
Phenanthrene	667	531		ug/Kg		80	49 - 110
Pyrene	667	538		ug/Kg		81	49 - 110
Acenaphthene	667	488		ug/Kg		73	38 - 110
Acenaphthylene	667	501		ug/Kg		75	40 - 110
Naphthalene	667	480		ug/Kg		72	36 - 110
2-Methylnaphthalene	667	497		ug/Kg		74	36 - 110

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 240-65772/24-A
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65772

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*72*		*24 - 110*
2-Fluorophenol (Surr)	*76*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 110*
Nitrobenzene-d5 (Surr)	*66*		*20 - 110*
Phenol-d5 (Surr)	*79*		*26 - 110*
Terphenyl-d14 (Surr)	*89*		*36 - 110*

Lab Sample ID: 240-17414-17 MS
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: DUPLICATE
Prep Type: Total/NA
Prep Batch: 65772

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]anthracene	190		728	988		ug/Kg	☼	110	10 - 122
Benzo[a]pyrene	150		728	854		ug/Kg	☼	97	10 - 110
Benzo[b]fluoranthene	220		728	1150	F	ug/Kg	☼	128	12 - 118
Benzo[g,h,i]perylene	100		728	739		ug/Kg	☼	87	10 - 117
Benzo[k]fluoranthene	69		728	737		ug/Kg	☼	92	10 - 121
Anthracene	63		728	637		ug/Kg	☼	79	20 - 110
Chrysene	210		728	991		ug/Kg	☼	108	10 - 125
Dibenz(a,h)anthracene	25		728	518		ug/Kg	☼	68	14 - 113
Fluoranthene	390		728	1710	F	ug/Kg	☼	182	10 - 110
Fluorene	22		728	571		ug/Kg	☼	75	23 - 110
Indeno[1,2,3-cd]pyrene	84		728	756		ug/Kg	☼	92	10 - 114
Phenanthrene	280		728	1230		ug/Kg	☼	130	10 - 166
Pyrene	310		728	1300		ug/Kg	☼	136	10 - 147
Acenaphthene	26		728	527		ug/Kg	☼	69	22 - 110
Acenaphthylene	7.3	U	728	497		ug/Kg	☼	68	24 - 110
Naphthalene	8.9		728	449		ug/Kg	☼	60	10 - 111
2-Methylnaphthalene	14		728	503		ug/Kg	☼	67	10 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	*61*		*24 - 110*
2-Fluorophenol (Surr)	*61*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*62*		*10 - 110*
Nitrobenzene-d5 (Surr)	*53*		*20 - 110*
Phenol-d5 (Surr)	*67*		*26 - 110*
Terphenyl-d14 (Surr)	*68*		*36 - 110*

Lab Sample ID: 240-17414-17 MSD
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: DUPLICATE
Prep Type: Total/NA
Prep Batch: 65772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]anthracene	190		712	983		ug/Kg	☼	112	10 - 122	1	99
Benzo[a]pyrene	150		712	843		ug/Kg	☼	97	10 - 110	1	99
Benzo[b]fluoranthene	220		712	1170	F	ug/Kg	☼	133	12 - 118	2	99
Benzo[g,h,i]perylene	100		712	723		ug/Kg	☼	87	10 - 117	2	99
Benzo[k]fluoranthene	69		712	748		ug/Kg	☼	95	10 - 121	1	99

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-17414-17 MSD
Matrix: Solid
Analysis Batch: 66058

Client Sample ID: DUPLICATE
Prep Type: Total/NA
Prep Batch: 65772

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	63		712	650		ug/Kg	☼	82	20 - 110	2	99
Chrysene	210		712	985		ug/Kg	☼	109	10 - 125	1	99
Dibenz(a,h)anthracene	25		712	550		ug/Kg	☼	74	14 - 113	6	99
Fluoranthene	390		712	1760	F	ug/Kg	☼	193	10 - 110	3	99
Fluorene	22		712	560		ug/Kg	☼	75	23 - 110	2	99
Indeno[1,2,3-cd]pyrene	84		712	742		ug/Kg	☼	92	10 - 114	2	99
Phenanthrene	280		712	1260		ug/Kg	☼	138	10 - 166	3	99
Pyrene	310		712	1290		ug/Kg	☼	137	10 - 147	1	99
Acenaphthene	26		712	524		ug/Kg	☼	70	22 - 110	1	99
Acenaphthylene	7.3	U	712	493		ug/Kg	☼	69	24 - 110	1	99
Naphthalene	8.9		712	426		ug/Kg	☼	59	10 - 111	5	99
2-Methylnaphthalene	14		712	477		ug/Kg	☼	65	10 - 133	5	42

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*63*		*24 - 110*
2-Fluorophenol (Surr)	*60*		*24 - 110*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 110*
Nitrobenzene-d5 (Surr)	*50*		*20 - 110*
Phenol-d5 (Surr)	*67*		*26 - 110*
Terphenyl-d14 (Surr)	*69*		*36 - 110*

GC/MS Semi VOA

Prep Batch: 65772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17414-1	SB2102	Total/NA	Solid	3540C	
240-17414-1 - RA	SB2102	Total/NA	Solid	3540C	
240-17414-2	SB2124	Total/NA	Solid	3540C	
240-17414-3	SB2202	Total/NA	Solid	3540C	
240-17414-4	SB2224	Total/NA	Solid	3540C	
240-17414-5	SB2302	Total/NA	Solid	3540C	
240-17414-6	SB2324	Total/NA	Solid	3540C	
240-17414-7	SB2402	Total/NA	Solid	3540C	
240-17414-8	SB2424	Total/NA	Solid	3540C	
240-17414-9	SB2702	Total/NA	Solid	3540C	
240-17414-10	SB2724	Total/NA	Solid	3540C	
240-17414-11	SB2602	Total/NA	Solid	3540C	
240-17414-12	SB2624	Total/NA	Solid	3540C	
240-17414-13	SB2502	Total/NA	Solid	3540C	
240-17414-14	SB2524	Total/NA	Solid	3540C	
240-17414-15	SB2802	Total/NA	Solid	3540C	
240-17414-16	SB2824	Total/NA	Solid	3540C	
240-17414-17	DUPLICATE	Total/NA	Solid	3540C	
240-17414-17 MS	DUPLICATE	Total/NA	Solid	3540C	
240-17414-17 MSD	DUPLICATE	Total/NA	Solid	3540C	
LCS 240-65772/24-A	Lab Control Sample	Total/NA	Solid	3540C	
MB 240-65772/23-A	Method Blank	Total/NA	Solid	3540C	

Analysis Batch: 66058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17414-1	SB2102	Total/NA	Solid	8270C	65772
240-17414-2	SB2124	Total/NA	Solid	8270C	65772
240-17414-3	SB2202	Total/NA	Solid	8270C	65772
240-17414-4	SB2224	Total/NA	Solid	8270C	65772
240-17414-5	SB2302	Total/NA	Solid	8270C	65772
240-17414-6	SB2324	Total/NA	Solid	8270C	65772
240-17414-7	SB2402	Total/NA	Solid	8270C	65772
240-17414-8	SB2424	Total/NA	Solid	8270C	65772
240-17414-9	SB2702	Total/NA	Solid	8270C	65772
240-17414-10	SB2724	Total/NA	Solid	8270C	65772
240-17414-11	SB2602	Total/NA	Solid	8270C	65772
240-17414-12	SB2624	Total/NA	Solid	8270C	65772
240-17414-13	SB2502	Total/NA	Solid	8270C	65772
240-17414-14	SB2524	Total/NA	Solid	8270C	65772
240-17414-15	SB2802	Total/NA	Solid	8270C	65772
240-17414-16	SB2824	Total/NA	Solid	8270C	65772
240-17414-17	DUPLICATE	Total/NA	Solid	8270C	65772
240-17414-17 MS	DUPLICATE	Total/NA	Solid	8270C	65772
240-17414-17 MSD	DUPLICATE	Total/NA	Solid	8270C	65772
LCS 240-65772/24-A	Lab Control Sample	Total/NA	Solid	8270C	65772
MB 240-65772/23-A	Method Blank	Total/NA	Solid	8270C	65772

Analysis Batch: 66240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17414-1 - RA	SB2102	Total/NA	Solid	8270C	65772

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

General Chemistry

Analysis Batch: 64915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-17414-1	SB2102	Total/NA	Solid	Moisture	
240-17414-2	SB2124	Total/NA	Solid	Moisture	
240-17414-3	SB2202	Total/NA	Solid	Moisture	
240-17414-4	SB2224	Total/NA	Solid	Moisture	
240-17414-5	SB2302	Total/NA	Solid	Moisture	
240-17414-5 DU	SB2302	Total/NA	Solid	Moisture	
240-17414-6	SB2324	Total/NA	Solid	Moisture	
240-17414-7	SB2402	Total/NA	Solid	Moisture	
240-17414-8	SB2424	Total/NA	Solid	Moisture	
240-17414-9	SB2702	Total/NA	Solid	Moisture	
240-17414-10	SB2724	Total/NA	Solid	Moisture	
240-17414-11	SB2602	Total/NA	Solid	Moisture	
240-17414-12	SB2624	Total/NA	Solid	Moisture	
240-17414-13	SB2502	Total/NA	Solid	Moisture	
240-17414-13 DU	SB2502	Total/NA	Solid	Moisture	
240-17414-14	SB2524	Total/NA	Solid	Moisture	
240-17414-15	SB2802	Total/NA	Solid	Moisture	
240-17414-16	SB2824	Total/NA	Solid	Moisture	
240-17414-17	DUPLICATE	Total/NA	Solid	Moisture	

Client Sample ID: SB2102

Lab Sample ID: 240-17414-1

Date Collected: 11/08/12 10:38

Matrix: Solid

Date Received: 11/09/12 09:15

Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		250	66058	11/23/12 18:36	JG	TAL NC
Total/NA	Prep	3540C	RA		65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C	RA	625	66240	11/26/12 21:47	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:41	LG	TAL NC

Client Sample ID: SB2124

Lab Sample ID: 240-17414-2

Date Collected: 11/08/12 10:38

Matrix: Solid

Date Received: 11/09/12 09:15

Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		1	66058	11/23/12 16:49	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:41	LG	TAL NC

Client Sample ID: SB2202

Lab Sample ID: 240-17414-3

Date Collected: 11/08/12 10:44

Matrix: Solid

Date Received: 11/09/12 09:15

Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		6.667	66058	11/23/12 18:00	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:41	LG	TAL NC

Client Sample ID: SB2224

Lab Sample ID: 240-17414-4

Date Collected: 11/08/12 10:44

Matrix: Solid

Date Received: 11/09/12 09:15

Percent Solids: 93.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		10	66058	11/23/12 20:24	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:41	LG	TAL NC

Client Sample ID: SB2302

Lab Sample ID: 240-17414-5

Date Collected: 11/08/12 10:55

Matrix: Solid

Date Received: 11/09/12 09:15

Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		10	66058	11/23/12 17:43	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:41	LG	TAL NC

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2324

Lab Sample ID: 240-17414-6

Date Collected: 11/08/12 10:55
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 91.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		4	66058	11/23/12 20:06	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2402

Lab Sample ID: 240-17414-7

Date Collected: 11/08/12 10:59
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 90.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		4	66058	11/23/12 19:48	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2424

Lab Sample ID: 240-17414-8

Date Collected: 11/08/12 10:59
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		1	66058	11/23/12 15:01	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2702

Lab Sample ID: 240-17414-9

Date Collected: 11/08/12 11:02
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 95.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		12.5	66058	11/23/12 18:18	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2724

Lab Sample ID: 240-17414-10

Date Collected: 11/08/12 11:02
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		4	66058	11/23/12 19:30	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2602

Lab Sample ID: 240-17414-11

Date Collected: 11/08/12 11:06
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 92.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		4	66058	11/23/12 19:12	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2624

Lab Sample ID: 240-17414-12

Date Collected: 11/08/12 11:06
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 93.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		10	66058	11/23/12 17:25	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2502

Lab Sample ID: 240-17414-13

Date Collected: 11/08/12 11:11
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		4	66058	11/23/12 18:54	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2524

Lab Sample ID: 240-17414-14

Date Collected: 11/08/12 11:11
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 93.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		1	66058	11/23/12 16:31	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: SB2802

Lab Sample ID: 240-17414-15

Date Collected: 11/08/12 11:14
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		2	66058	11/23/12 17:07	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Lab Chronicle

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Client Sample ID: SB2824

Lab Sample ID: 240-17414-16

Date Collected: 11/08/12 11:14
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		2.5	66058	11/23/12 20:42	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Client Sample ID: DUPLICATE

Lab Sample ID: 240-17414-17

Date Collected: 11/08/12 11:06
Matrix: Solid
Date Received: 11/09/12 09:15
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3540C			65772	11/20/12 11:40	AC	TAL NC
Total/NA	Analysis	8270C		1	66058	11/23/12 15:37	JG	TAL NC
Total/NA	Analysis	Moisture		1	64915	11/14/12 08:46	LG	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Tetra Tech EM Inc.
Project/Site: Mansfield Stamping Plant / Racer

TestAmerica Job ID: 240-17414-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-13
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-13
Texas	NELAC	6		08-03-13
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-13
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-13

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: tetratech	Client Project Manager: Vicky Farmer	Site Contact:	Lab Contact:	COC No: 024372
Address: 250 W Court 200W	Telephone:	Telephone:	Telephone:	____ of ____ COCs
City/State/Zip: Cincinnati OH 45202	Email: Vicky.Farmer@tetra	Analysis Turnaround Time (in BUSINESS days)	Analyses	
Phone: 513 333 3466	tech.com	TAT if different from below ____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name: Mansfield	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite / Grab	TAL-PAH	Sample Specific Notes / Special Instructions:
SB2102	11-8	1038				X							X				X	
SB2124	↓	↓				↓							↓				↓	
SB2202		1044																
SB2224		↓																
SB2302		1055																
SB2324		↓																
SB2402		1059																
SB2424		↓																
SB2702		1102																
SB2724	↓	↓				↓							↓				↓	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TT	11-8 @ 1200			
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 11/9/12 SK

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TAL 0018- 1 (04/10)

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____
Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name:	Client Project Manager:	Site Contact:	Lab Contact:	COC No: 024373
Address:	Telephone:	Telephone:	Telephone:	2 of 2 COCs
City/State/Zip:	Email:	Analysis Turnaround Time (in BUSINESS days)	Analyses	
Phone:		TAT if different from below _____ ☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		
Project Name:	Method of Shipment/Carrier:			
Project Number:	Shipping/Tracking No:			
PO #				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	Unpres	Other:	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	PAH									Sample Specific Notes / Special Instructions:
SB2602		1100				X							X				X									
SB2624		↓																								
SB2502		1111																								
24		↓																								
SB2802		1114																								
24		↓																								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☐ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL	Date/Time: 11/9/12 915

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TAL 0018- 1 (04/10)

11/28/2012

TestAmerica Canton Sample Receipt Form/Narrative Login # : 17414

Client Tetra Tech Site Name _____ By: _____ (Signature)

Cooler Received on 11-9-12 Opened on 11-9-12

FedEx: 1st Grd (Exp) UPS FAS Stetson Client Drop Off TestAmerica Courier Other _____

TestAmerica Cooler # 1 - M NOT Foam Box Client Cooler Box Other _____

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other _____

COOLANT: (Wet Ice) Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt

IR GUN# 1	(CF –2 °C)	Observed Sample Temp. 4.4 °C	Corrected Sample Temp. 2.4 °C	☐ Multiple on Back
IR GUN# 4G	(CF 0 °C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	
IR GUN# 5G	(CF 0 °C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	
IR GUN# 8	(CF 0 °C)	Observed Sample Temp. _____ °C	Corrected Sample Temp. _____ °C	

2. Were custody seals on the outside of the cooler(s)?	If Yes Quantity _____	Yes (No)
-Were custody seals on the outside of the cooler(s) signed & dated?		Yes No (NA)
-Were custody seals on the bottle(s)?		Yes (No)
3. Shippers' packing slip attached to the cooler(s)?		(Yes) No
4. Did custody papers accompany the sample(s)?		(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?		(Yes) No
6. Did all bottles arrive in good condition (Unbroken)?		(Yes) No
7. Could all bottle labels be reconciled with the COC?		(Yes) No
8. Were correct bottle(s) used for the test(s) indicated?		(Yes) No
9. Sufficient quantity received to perform indicated analyses?		(Yes) No
10. Were sample(s) at the correct pH upon receipt?		Yes No (NA)
11. Were VOAs on the COC?		Yes (No)
12. Were air bubbles >6 mm in any VOA vials?		Yes No (NA)
13. Was a trip blank present in the cooler(s)?		Yes (No)

Contacted PM JWM Date 11/9/12 by CR via (Verbal) Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Rec'D 1 Duplicate 1X100 with 11:06 as time on I.D. will log at end of lot

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 031512-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? _____

Client ID	pH	Date	Initials

Appendix H

Property Specific Risk Assessment

Appendix I

Modeling Information

GROUNDWATER MODELING REPORT

Former GM Ontario Stamping Plant
2525 West Fourth Street
Ontario, Ohio

JUNE 2014

Prepared For:

Revitalizing Auto Communities Environmental Response Trust

500 Woodward Avenue
Suite 1510
Detroit, MI 48226

Prepared By:

TETRA TECH

250 West Court Street
Suite 200 W
Cincinnati, Ohio 45202

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2 Summary of Model Input – Transport Parameters

3 Model Simulated Concentrations at the Receptor Locations

ATTACHMENT

1 BIOSCREEN Model Input and Output Screens

1.0 INTRODUCTION

This report presents the groundwater modeling evaluation to support closure of a former automotive stamping plant in Mansfield, Ohio. The site is being closed under the Ohio EPA Voluntary Action Program (VAP). Several chemicals of concern (COC) were detected in groundwater onsite above the Ohio VAP generic unrestricted potable use standards (UPUS). Ohio EPA has requested a demonstration that groundwater COCs will not impact off-site receptors at concentrations exceeding the UPUS.

Section 1.0 of this report discusses the objectives of modeling and rationale for selecting model codes. Sections 2.0 and 3.0 discuss the approach to modeling and model runs. Section 4.0 presents the modeling results. Section 5.0 summarizes the model limitations. Section 6.0 provides the conclusions, and Section 7.0 lists the documents used to prepare this report. All Tables follow Section 7.0. Attachment 1 provides model input and output screens.

1.1 OBJECTIVES OF MODELING

The COCs for this modeling evaluation were arsenic, barium, and tetrachloroethene (TCE). Table 1 lists monitoring wells and maximum detected concentrations of the COCs.

The objectives of modeling were to (1) simulate the migration of COCs from the hypothetical source area to the downgradient off-site receptors; (2) estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and (3) compare simulated maximum concentrations of COCs at the off-site receptor locations to the UPUS. Model input parameters were selected that would result in the conservative model predictions (reasonable worst-case COC concentrations at receptor locations).

The model code BIOSCREEN Version 1.4 was used to simulate migration of arsenic and barium in groundwater. The model code BIOCHLOR Version 2.2 was used to simulate the migration of TCE in groundwater. Section 1.2 further discusses the rationale for selecting these model codes.

1.2 RATIONALE FOR SELECTION OF MODEL CODES

The model code BIOSCREEN Version 1.4 (EPA 1996) is based on the Domenico analytical solution for the advective-dispersive solute transport equation (Domenico 1987), and it has the ability to simulate advection, dispersion, and retardation due to sorption or degradation (decay). BIOSCREEN includes different model types, including solute transport without decay. Therefore, the application of this model code to simulate the migration of arsenic and barium in groundwater is appropriate.

The BIOCHLOR model code (Aziz and others 2002) uses an analytical advective-dispersive transport module with sequential first-order decay to simulate the in situ biotransformation of chlorinated ethenes in a single zone or multiple reaction zones. Both BIOSCREEN and

BIOCHLOR are EPA-approved screening level models that are routinely used by various regulatory agencies and are in the public domain.

2.0 MODELING APPROACH

The overall modeling approach used to simulate migration and estimate concentrations of COCs in groundwater at the off-site receptor locations consisted of the following steps:

- Establish a set of conservative parameter values for use in modeling;
- Using selected parameter combinations perform model runs to estimate peak concentrations of COCs in groundwater at the off-site receptor locations.

Groundwater modeling used a conservative assumption of steady-state continuing source of COCs in groundwater. For simplicity, it was assumed that the specific monitoring well was the source area for the COC. Both the BIOSCREEN and BIOCHLOR models simulate source as a vertical plane perpendicular to groundwater flow direction. The source width can be represented as the maximum horizontal extent of area with the elevated COC concentrations. The source thickness represents the contaminated portion of the water-bearing zone where chemicals are slowly dissolving into groundwater. Both the source width and thickness are not exactly known but were assumed to be relatively large (conservative case). To maximize the simulated source strength the maximum COC concentration observed in a monitoring well was assigned in the model.

In addition, the model was conservative in that it did not account for changes in geochemical conditions in groundwater down gradient from the site that may trigger precipitation of COCs such as arsenic out of solution. It also did not account for biodegradation, the process that over time would reduce concentration of TCE in groundwater.

The process by which dissolved substances are transported by the bulk motion of flowing groundwater is known as advection. Owing to advection, nonreactive solutes are carried at an average rate equal to the average linear velocity of the water (Freeze and Cherry 1979). However, the solutes are subjected to hydrodynamic dispersion, which is the process of irregular spreading of solutes longitudinally (along the direction of groundwater flow), transversely (perpendicular to groundwater flow), and vertically (downward) because of mechanical mixing and chemical diffusion in the aquifer. Mechanical mixing is the primary mechanism for hydrodynamic dispersion in zones of active groundwater flow, and it occurs as a result of macroscopic and microscopic variations in the aquifer materials. As a result of hydrodynamic dispersion, contaminant mass becomes distributed over a greater volume of the aquifer at lower concentration than it would under the influence of advection alone. Under the assumptions used for this modeling of no chemical transformation of arsenic, barium, and TCE hydrodynamic dispersion is the only process that reduces their concentrations during groundwater transport.

An empirical aquifer property controlling the magnitude of dispersion is called dispersivity (Spitz and Moreno 1996). Both the BIOSCREEN and BIOCHLOR models require the input of

longitudinal, transverse and vertical dispersivity values. Selection of dispersivity values for modeling applications is a difficult process, given the impracticability of measuring dispersion in the field (EPA 1996a). In modeling applications the longitudinal (α_x), transverse (α_y), and vertical (α_z) dispersivities are estimated based on some commonly used relationships that have been determined by several researchers over time. The α_x is typically defined based on distance from the source, while α_y and α_z are usually derived as some ratios of α_x.

One commonly used approach to estimate longitudinal dispersivity is to assume that α_x is 10 percent of the estimated plume length or distance from the source to the receptor location (Pickens and Grisak 1981). A commonly used ratio to estimate transverse dispersivity is $\alpha_y = 0.1\alpha_x$ (ASTM 1995). A commonly used ratio for vertical dispersivity is $\alpha_z = 0.05\alpha_x$ or less (ASTM 1995; Gelhar et al. 1992). For this modeling evaluation, longitudinal dispersivity was estimated as 10 percent of the shortest distance from the monitoring well to the receptor location (that is based on the minimum value from the range of distances). Transverse dispersivity was set at 10 percent of longitudinal. Vertical dispersivity was set to be negligibly small.

The modeling approach described above resulted in model simulations that likely overestimate concentrations of COCs at receptor locations. The limitations of using a simplified analytical modeling approach are more fully discussed in Section 5.0.

2.1 SITE CONCEPTUAL MODEL

The conceptual model for the site was formulated to organize existing field data and literature-derived parameter values so the groundwater flow system could be analyzed more readily. As presented in Phase II Environmental Site Assessment Report (Tetra Tech 2014), the site is underlain by low permeability silty clay with sporadic, laterally and vertically discontinuous interbedded saturated sandy and gravelly lenses.

Monitoring wells in which COCs were detected above UPUS are located in the vicinity of former landfill and are screened in both shallow (MW5-2S, MW10-2) and deep (MW2-1, MW2-2, MW5-1, MW5-2D, and MW5-4) groundwater zones. Groundwater elevations measured in shallow wells are 10-30 feet higher than those in the deep wells (Tetra Tech 2014).

Groundwater flow direction in the shallow groundwater zone appears to be southeasterly at a hydraulic gradient of approximately 0.0299 feet by feet (ft/ft). Based on groundwater elevations measured in the deep wells, a mound appears to be present near the southeast corner of the former landfill. Because of this mound groundwater flow direction in the deep groundwater zone can be southeasterly and northeasterly (at a gradient of 0.0281 ft/ft), as well as southwesterly (at a gradient of 0.0111 ft/ft).

Pumping tests conducted in two shallow and one deep well indicated low well yields (Tetra Tech 2014). Interpretation of the water level recovery data at the conclusion of the pumping test in the deep well MW5-2D resulted in the estimated hydraulic conductivity (K) of 0.02 feet per day [ft/d] (7.06×10^{-6} centimeters per second). Per the boring log for this well, both silty sandy clay

and sand and gravel are present in the screen interval (Tetra Tech 2013). Considering that all other wells listed in Table 1 are screened almost entirely in silty or sandy clay, the K value derived for well MW5-2D conservatively represents permeability of the formation at the site and was used in the modeling.

Of the COCs detected in seven monitoring wells above the UPUS, only arsenic appears to be detected consistently (Table 1). Its occurrence in groundwater may be related to the former landfill which likely generated reducing conditions favorable for mobilization of naturally occurring arsenic from soils to groundwater. However, further away from the landfill the conditions in groundwater may become more oxidizing, which would likely cause arsenic to precipitate out of solution and limit its migration to off-site receptors.

2.2 Groundwater Model Assumptions

The conceptual model described above formed the basis for selecting model input parameters and constructing the model. To the extent practical, the model incorporated all field data collected at the site. Table 1 summarizes the model parameters for source releases and Table 2 summarizes various transport parameter values. Modeling assumptions are listed below.

Assumptions Required for Use in Analytical Models

- The water-bearing zone is homogeneous, isotropic, and infinite in areal extent.
- Groundwater flow is horizontal, unidirectional, and at steady state.

Physical Assumptions

- The area of concern is the well with the highest COC concentration above the respective water quality standard.
- Groundwater flow is in the direction of shortest travel from the assumed location of the source area to the receptor.
- The saturated thickness is set equal to the well screened interval of 5 or 10 feet (Table 1) to represent conservative case of the contaminated portion of the water-bearing zone (which is laterally discontinuous; the actual affected thickness of the water-bearing zone is likely less).
- The hydraulic conductivity is set equal to 0.02 ft/d to represent predominant permeability of the formation.
- The hydraulic gradient is equal to 0.0111 and 0.0299 ft/ft to simulate respectively faster and slower groundwater seepage velocity.

- The effective porosity for the water-bearing zone is set equal to 0.2 (unitless), which is an upper-bound effective porosity value for silty sandy clay (Domenico and Schwartz 1990).

- The groundwater seepage velocity ranges from 0.4 to 1.1 feet per year (ft/yr) (Table 2). The following calculation was used to determine seepage velocity (Fetter 1980):

  $v = (k \times i) / n_e$

  where:

v	=	seepage velocity, or pore water velocity (ft/d)
k	=	hydraulic conductivity (ft/d)
i	=	hydraulic gradient (ft/ft)
n_e	=	effective porosity (unitless)

- Following common approaches to estimate contaminant dispersion (Pickens and Grisak 1981; ASTM 1995), the longitudinal dispersivity was estimated as 10 percent of the shortest distance from the monitoring well to the receptor location (based on the distance from well MW5-4 of 595 feet, while the distances to receptors range up to 2,056 feet, see Table 2). Transverse dispersivity was set at 10 percent of the longitudinal. Vertical dispersivity was set to 0.0001 feet to indicate that dispersion in a vertical plane is negligibly small.

Chemical-Specific Assumptions

- The source of contamination and source release is continuous and at a constant concentration (based on the maximum concentrations of COCs detected in 2011 sampling events [Tetra Tech 2014]).

- The simulated source release is through a vertical plane which is perpendicular to the groundwater flow direction (Aziz and others 2002). The width of the source area is conservatively assumed to be 30 feet and its thickness is set equal to well screen length.

- Even though metals (including arsenic and barium) are known to adsorb or precipitate under many common geochemical conditions, including the conditions present within the site and down gradient from it, a conservative modeling considered a case of metals migration with the same velocity as groundwater (the retardation factor was set 1.0).

- Based on the organic carbon partition coefficient (K_{oc}) for TCE of 126 liters per kilogram (L/kg) (Aziz and others 2002), BIOCHLOR model calculated a retardation factor for TCE of 13.6. Therefore, because of sorption TCE is expected to migrate nearly 14 times slower than the average seepage velocity of groundwater. The calculation used the bulk density of 1.7 kilograms per liter (kg/L) and fraction of organic carbon of 0.0118 using average values from three borings (Tetra Tech 2014).

- Chlorinated ethenes biodegrade by a sequential first-order decay process (Wiedemeier et al. 1999). The biodegradation would reduce TCE concentrations in groundwater. However, this conservative modeling

BIOSCREEN and BIOCHLOR models were constructed to meet the objectives outlined in Section 1.2 and relied on the site conceptual model and assumptions described above. Model runs and sensitivity analyses are further discussed in Section 3.0.

3.0 MODEL RUNS AND SENSITIVITY ANALYSIS

The available data did not allow a detailed calibration of the model (Anderson and Woessner 1992). However, the uncalibrated model results are acceptable to meet the objectives of the modeling states in Section 1.2.

The model runs were conducted for individual wells and COCs listed in Table 1. BIOSCREEN model was run to simulate migration of arsenic and barium in shallow groundwater zone (wells MW5-2S and MW10-2) and migration of arsenic in deep groundwater zone (wells MW2-1, MW2-2, MW5-1, MW5-2D, and MW5-4). BIOCHLOR model was run to simulate the migration of TCE in shallow groundwater zone (well MW5-2S). Both models were run to estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations.

For the continuous constant source used in all modeling runs, retardation of COCs due to sorption would only increase the arrival time of the peak concentration but will not reduce the concentration. As discussed in Section 2.0, dispersion is the only mechanism causing a reduction in COC concentrations in groundwater as it migrates from the source area towards the receptor.

Limited model sensitivity analysis conducted during this modeling effort indicated that model outcomes are strongly influenced by the source size (width and saturated zone thickness) and dispersivity. However, given the uncertainties associated with the determination of these parameters, the selection of overly conservative continuous source assumption would outweigh the errors associated with the estimates used for these parameters. In addition, model sensitivity analysis indicated that incorporating retardation into the model would result in COCs arriving to receptor locations after a period of thousands of years. For this reason, model simulations were set to unrealistically long times (10,000 years).

4.0 MODEL RESULTS

Table 3 summarizes simulated concentrations of COCs for individual wells. Attachment 1 contains model input and output screens for model runs.

The modeling results presented in Table 3 indicate that simulated COC concentrations in groundwater at receptor locations would not exceed UPUS.

5.0 MODEL LIMITATIONS

For this investigation, model parameters were selected based on field data, where possible. The hydraulic conductivity estimate was based on the interpretation of recovery data from the pumping test. The hydraulic gradient was estimated based on the observed range of groundwater elevations at the site. The porosity of soil was established from an upper-end literature-based value for silty sandy clay (Domenico and Schwartz 1990). The type of modeling used for this evaluation is consistent with the characteristics of a "generic model" (Anderson and Woessner 1992). Generic models are used to analyze flow in simplified hydrogeological systems and do not necessarily require formal calibration (Anderson and Woessner 1992).

Numerous assumptions and simplifications were incorporated to develop the analytical transport model for the site, which are likely to result in overestimated concentrations of COCs at the receptor locations. Uncalibrated model results provide a reasonable worst-case analysis and are considered to be conservative for protecting potential off-site receptors. Section 2.2 of this report summarizes the important assumptions and simplifications of this evaluation.

6.0 CONCLUSIONS

The BIOCHLOR and BIOSCREEN analytical models were used to simulate the fate and transport of arsenic, barium, and TCE detected above the UPUS in groundwater at the site. The objectives of modeling were to:

(1) simulate the migration of COCs from the hypothetical source area to the downgradient off-site receptors;

(2) estimate the reasonable worst-case concentration of COCs in groundwater that might be expected at the off-site receptor locations; and

(3) compare simulated maximum concentrations of COCs at the off-site receptor locations to the UPUS.

The approach to modeling included selecting input parameters that would result in conservative model results, because detailed model calibration was not possible due to lack of downgradient groundwater data.

Modeling results indicate that under present site conditions the COCs would take hundreds to thousands of years to arrive at the receptor locations. The concentrations of arsenic, barium, and TCE are not predicted to exceed UPUS at the off-site receptor locations.

The predicted concentrations of COCs are likely overestimated. The modeling did not account for geochemical effects on arsenic and barium fate and transport, which would likely reduce their concentrations in groundwater and limit their migration towards receptors. Similarly, the modeling disregarded biodegradation that would likely reduce concentration of TCE over time.

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TABLE 1: SUMMARY OF MODEL INPUT - SOURCE RELEASE PARAMETERS

FORMER GM ONTARTIO STAMPING PLANT
ONTARIO, RICHLAND COUNTY, OHIO

Monitoring Well Representing Source	Analyte Exceeding Ohio VAP Standard[a] in Groundwater at Source	Maximum Concentration Detected (µg/L)	Source Width[b,c] (feet)	Source Thickness[d] (feet)
MW10-2	Barium	69.2	30	10
MW5-2S	Trichloroethene	11.0	30	5
	Arsenic	11.2	30	5
MW5-2D	Arsenic	18.8	30	10
MW2-1	Arsenic	38.3	30	10
MW5-1	Arsenic	20.7	30	10
MW2-2	Arsenic	29.4	30	10
MW5-4	Arsenic	46.5	30	10

Notes:

a Ohio VAP Generic Unrestricted Potable Use Standard
b Width of area of concern is perpendicular to direction of transport.
c The contaminant concentration in the source zone is set equal to the maximum concentration detected in the well.
d The thickness of the source zone is assumed equal to the well screen length.
µg/L Micrograms per liter

TABLE 2: SUMMARY OF MODEL INPUT - TRANSPORT PARAMETERS

FORMER GM ONTARTIO STAMPING PLANT
ONTARIO, RICHLAND COUNTY, OHIO

Monitoring Well Representing Source	Analyte Exceeding Ohio VAP Standard[a] in Groundwater at Source	Distance to Receptor (feet)	Hydraulic Gradient (feet/feet)	Hydraulic Conductivity		Average Linear Velocity[b] of Groundwater (feet/year)	Longitudinal Dispersivity[c] (feet)	Transverse Dispersivity[d] (feet)	Vertical Dispersivity[e] (feet)
				(feet/day)	(cm/sec)				
MW10-2	Barium	1280, SE	0.0299	0.020	7.06E-06	1.1	59.5	6.0	0.0
MW5-2S	Trichloroethene Arsenic	1510, SE	0.0299	0.020	7.06E-06	1.1	59.5	6.0	0.0
MW5-2D	Arsenic	1510, SW	0.0111	0.020	7.06E-06	0.4	59.5	6.0	0.0
MW2-1	Arsenic	2056, SW	0.0111	0.020	7.06E-06	0.4	59.5	6.0	0.0
MW5-1	Arsenic	1397, SW	0.0111	0.020	7.06E-06	0.4	59.5	6.0	0.0
MW2-2	Arsenic	662, SE	0.0281	0.020	7.06E-06	1.0	59.5	6.0	0.0
MW5-4	Arsenic	595, SE	0.0281	0.020	7.06E-06	1.0	59.5	6.0	0.0

Notes:

a Ohio VAP Generic Unrestricted Potable Use Standard
b Assumes an upper-bound effective porosity value for silty, sandy clay of 0.20 (Domenico and Schwartz 1990).
c Estimated as 0.1 of the shortest distance to the off-site receptor.
d Estimated as 0.1 of the longitudinal dispersivity.
e Assumed negligibly small.
cm Centimeter
µg/L Micrograms per liter
sec Second
SE Southeast
SW Southwest

Source: Domenico, P.A. and F.W. Schwartz. 1990. Physical and Chemical Hydrogeology. Wiley, New York. 824 pp.

TABLE 3: MODEL SIMULATED CONCENTRATIONS AT OFF-PROPERTY RECEPTOR LOCATIONS

FORMER GM ONTARTIO STAMPING PLANT
ONTARIO, RICHLAND COUNTY, OHIO

Monitoring Well Representing Source	Analyte Exceeding Ohio VAP Standard[a] in Groundwater at Source	Distance to Receptor (feet)	Ohio VAP Standard[a] (µg/L)	Source Concentration (µg/L)	Simulated Concentration at Receptor Location (µg/L)	Ohio VAP Standard[a] Exceeded at Receptor Location?
MW10-2	Barium	1280, SE	50	69.2	6.7	No
MW5-2S	Trichloroethene	1510, SE	5	11.0	<0.1	No
	Arsenic		10	11.2	1.0	No
MW5-2D	Arsenic	1510, SW	10	18.8	1.7	No
MW2-1	Arsenic	2056, SW	10	38.3	2.9	No
MW5-1	Arsenic	1397, SW	10	20.7	1.9	No
MW2-2	Arsenic	662, SE	10	29.4	3.9	No
MW5-4	Arsenic	595, SE	10	46.5	6.6	No

Notes:

a Ohio VAP Generic Unrestricted Potable Use Standard
µg/L Micrograms per liter
ND Not detected

ATTACHMENT 1
BIOSCREEN MODEL INPUT AND OUTPUT SCREENS

This attachment presents input and output screens for the BIOSCREEN and BIOCHLOR model runs for individual wells listed in Table 1. The first page of each individual model run summarizes input data. The second page presents predicted COC concentrations along the plume centerline.

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW10-2
Barium
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	1.1	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.02991	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.5	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

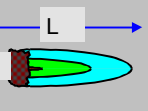
Retardation Factor*	*R*	1.0	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Kd*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	*1.2E-2*	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	1280	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

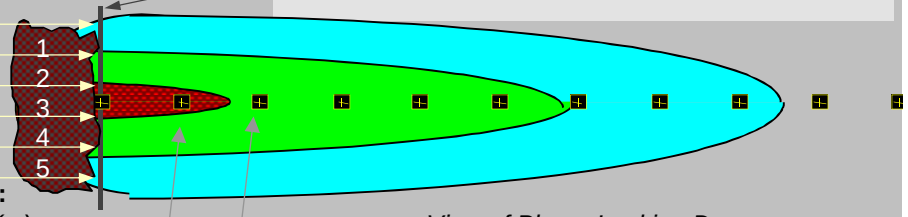
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0692
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.069										
Dist. from Source (ft)	*0*	*128*	*256*	*384*	*512*	*640*	*768*	*896*	*1024*	*1152*	*1280*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

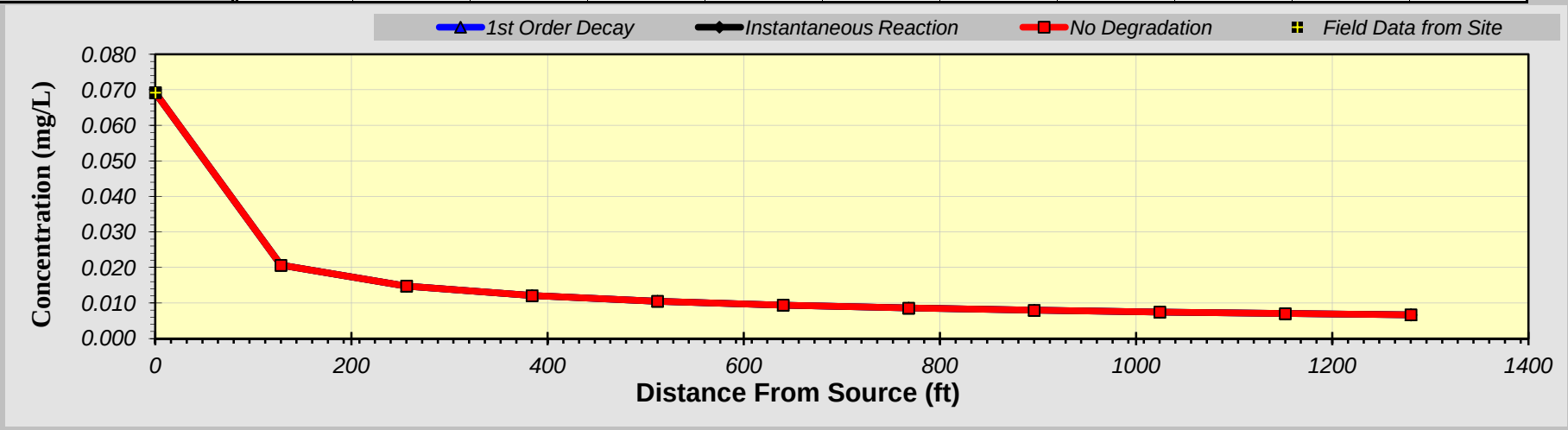
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	128	256	384	512	640	768	896	1024	1152	1280
No Degradation	0.069	0.021	0.015	0.012	0.011	0.009	0.009	0.008	0.007	0.007	0.007
1st Order Decay	0.069	0.021	0.015	0.012	0.011	0.009	0.009	0.008	0.007	0.007	0.007
Inst. Reaction	0.069	0.021	0.015	0.012	0.011	0.009	0.009	0.008	0.007	0.007	0.007
Field Data from Site	0.069										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOCHLOR Natural Attenuation Decision Support System

Version 2.2
Excel 2000

MW5-2S
Trichloroethene
Run Name

Data Input Instructions:
115 → 1. Enter value directly....or
or ↑ 2. Calculate by filling in gray
0.02 cells. Press Enter, then C
(To restore formulas, hit "Restore Formulas" button)
Variable* → Data used directly in model.

Test if Biotransformation is Occurring → Natural Attenuation Screening Protocol

TYPE OF CHLORINATED SOLVENT: Ethenes ◉ Ethanes ○

1. ADVECTION

Seepage Velocity*	Vs	1.1	(ft/yr)
or			
Hydraulic Conductivity	K	7.1E-06	(cm/sec)
Hydraulic Gradient	i	0.0299	(ft/ft)
Effective Porosity	n	0.2	(-)

2. DISPERSION

Alpha x*	59.6	(ft)
(Alpha y) / (Alpha x)*	0.1	(-)
(Alpha z) / (Alpha x)*	1.E-99	(-)

Calc. Alpha x

3. ADSORPTION

Retardation Factor* → R
or

Soil Bulk Density, rho	1.7	(kg/L)		
FractionOrganicCarbon, foc	1.2E-2	(-)		
Partition Coefficient	Koc			
PCE	364	(L/kg)	37.51	(-)
TCE	126	(L/kg)	13.64	(-)
DCE	24	(L/kg)	3.41	(-)
VC	30	(L/kg)	3.97	(-)
ETH	302	(L/kg)	31.29	(-)
Common R (used in model)* =			**13.64**	

4. BIOTRANSFORMATION

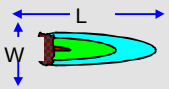
-1st Order Decay Coefficient*

	λ (1/yr)		half-life (yrs)	Yield
Zone 1				
PCE → TCE	0.00	←		0.79
TCE → DCE	0.00	←		0.74
DCE → VC	0.00	←		0.64
VC → ETH	0.00	←		0.45
Zone 2	λ (1/yr)		half-life (yrs)	
PCE → TCE	0.000	←		
TCE → DCE	0.000	←		
DCE → VC	0.000	←		
VC → ETH	0.000	←		

λ HELP

5. GENERAL

Simulation Time*	10000	(yr)
Modeled Area Width*	30	(ft)
Modeled Area Length*	1510	(ft)
Zone 1 Length*	1510	(ft)
Zone 2 Length*	0	(ft)



Zone 2=

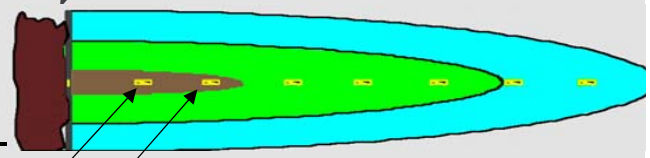
6. SOURCE DATA

TYPE: Continuous Single Planar

Source Options

Source Thickness in Sat. Zone* 5 (ft)

Vertical Plane Source: Determine Source Well Location and Input Solvent Concentrations



	Y1	k_s* (1/yr)
Width* (ft)	30	
Conc. (mg/L)*	C1	
PCE		0
TCE	.011	0
DCE		0
VC		0
ETH		0

View of Plume Looking Down

Observed Centerline Conc. at Monitoring Wells

7. FIELD DATA FOR COMPARISON

PCE Conc. (mg/L)												
TCE Conc. (mg/L)	.011											
DCE Conc. (mg/L)												
VC Conc. (mg/L)												
ETH Conc. (mg/L)												
Distance from Source (ft)	0											
Date Data Collected	MW5-2S											

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE | RUN ARRAY | Help | Restore Formulas | RESET | SEE OUTPUT | Paste Example

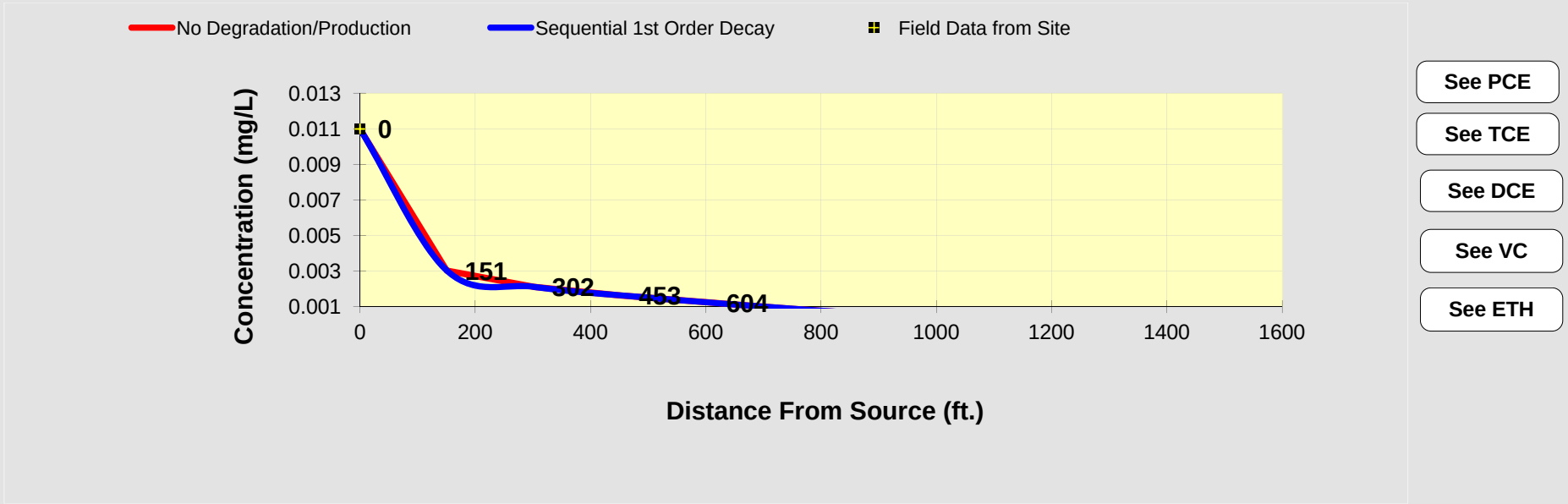
TRICHLOROETHENE CONCENTRATIONS ALONG PLUME CENTERLINE (mg/L) at Z=0

Distance from Source (ft)

TCE	0	151	302	453	604	755	906	1057	1208	1359	1510
No Degradation	0.011	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000
Biotransformation	0.0110	0.003	0.002	0.002	0.001	0.001	0.001	0.000	0.000	0.000	0.000

Monitoring Well Locations (ft)

	0										
Field Data from Site	0.011										



See PCE

See TCE

See DCE

See VC

See ETH

Prepare Animation

Time:

10,000.0 Years

Log ⟺ Linear

Return to Input

To All

To Array

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW5-2S
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	1.1	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.02991	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.5	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

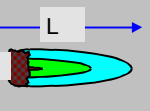
Retardation Factor*	*R*	1.0	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Kd*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	*1.2E-2*	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	1510	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 5 *(ft)*

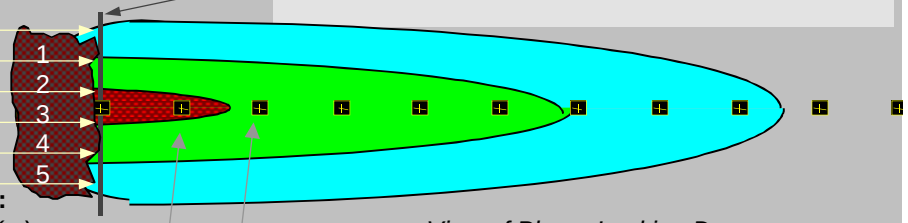
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0112
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.011										
Dist. from Source (ft)	*0*	*151*	*302*	*453*	*604*	*755*	*906*	*1057*	*1208*	*1359*	*1510*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

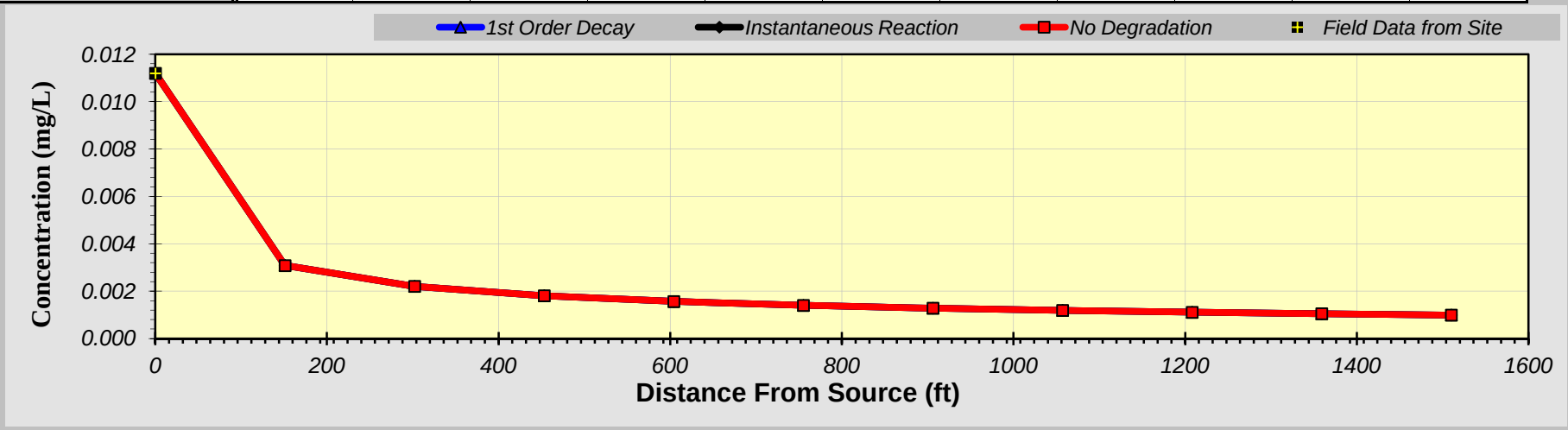
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	151	302	453	604	755	906	1057	1208	1359	1510
No Degradation	0.011	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
1st Order Decay	0.011	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Inst. Reaction	0.011	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Field Data from Site	0.011										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW5-2D
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	0.4	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.01108	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.5	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

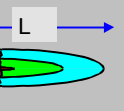
Retardation Factor*	*R*	1.0	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	1.2E-2	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	1510	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

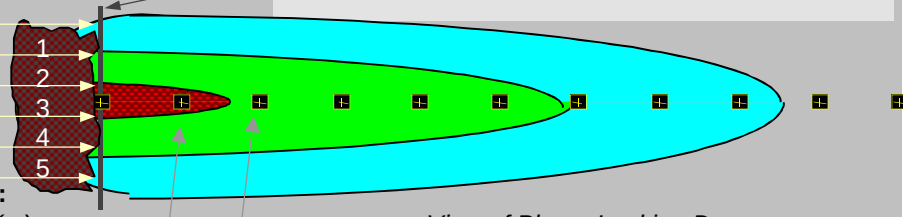
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0188
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.019										
Dist. from Source (ft)	*0*	*151*	*302*	*453*	*604*	*755*	*906*	*1057*	*1208*	*1359*	*1510*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

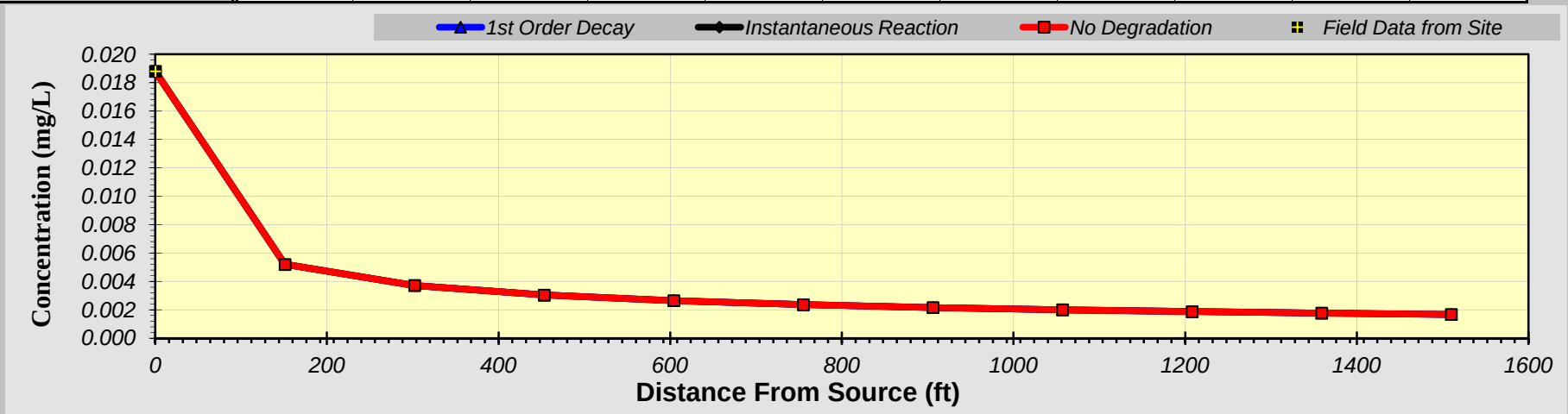
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	151	302	453	604	755	906	1057	1208	1359	1510
No Degradation	0.019	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
1st Order Decay	0.019	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
Inst. Reaction	0.019	0.005	0.004	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002
Field Data from Site	0.019										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW2-1
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	0.4	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.01108	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.6	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

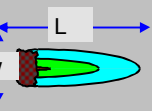
Retardation Factor*	*R*	1.0	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	1.2E-2	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	2056	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

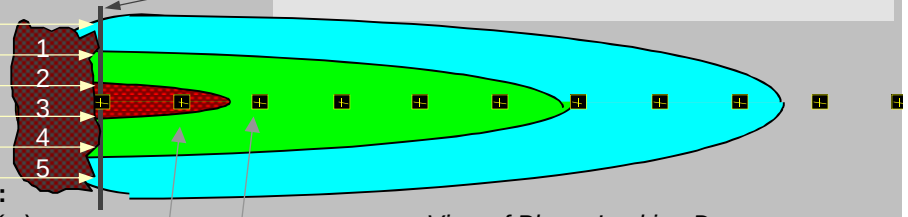
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0383
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.038										
Dist. from Source (ft)	0	206	411	617	822	1028	1234	1439	1645	1850	2056

MW2-1

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

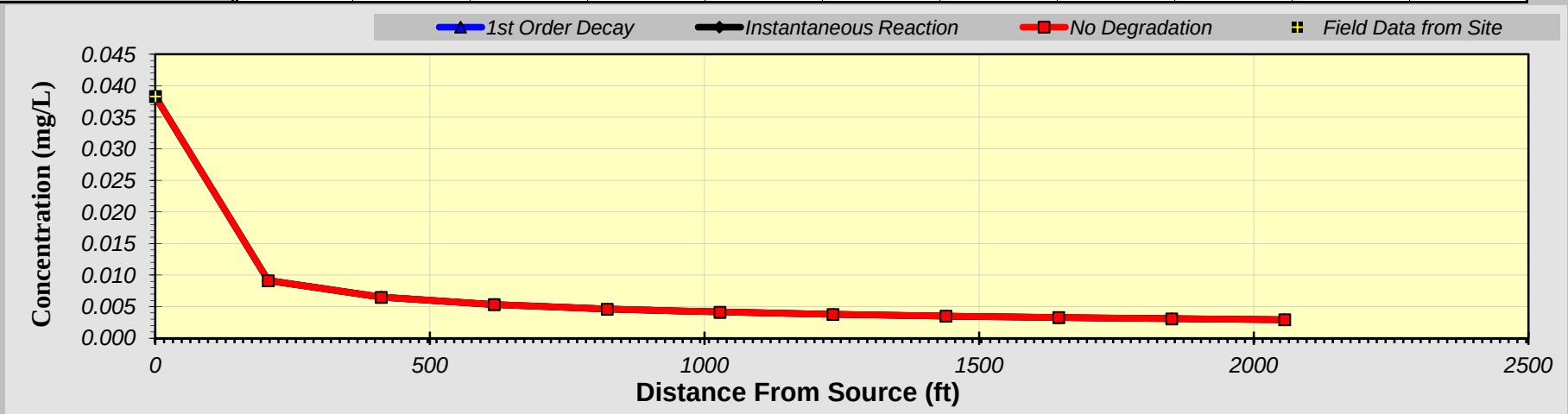
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	206	411	617	822	1028	1234	1439	1645	1850	2056
No Degradation	0.038	0.009	0.007	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003
1st Order Decay	0.038	0.009	0.007	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003
Inst. Reaction	0.038	0.009	0.007	0.005	0.005	0.004	0.004	0.003	0.003	0.003	0.003
Field Data from Site	0.038										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW5-1
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	0.4	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.01108	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.6	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

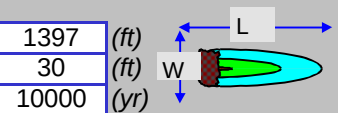
Retardation Factor*	*R*	1.0	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Koc*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	1.2E-2	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	1397	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

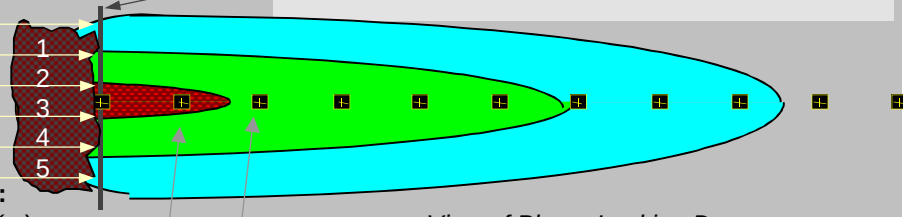
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0207
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.021										
Dist. from Source (ft)	*0*	*140*	*279*	*419*	*559*	*699*	*838*	*978*	*1118*	*1257*	*1397*

MW2-1

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

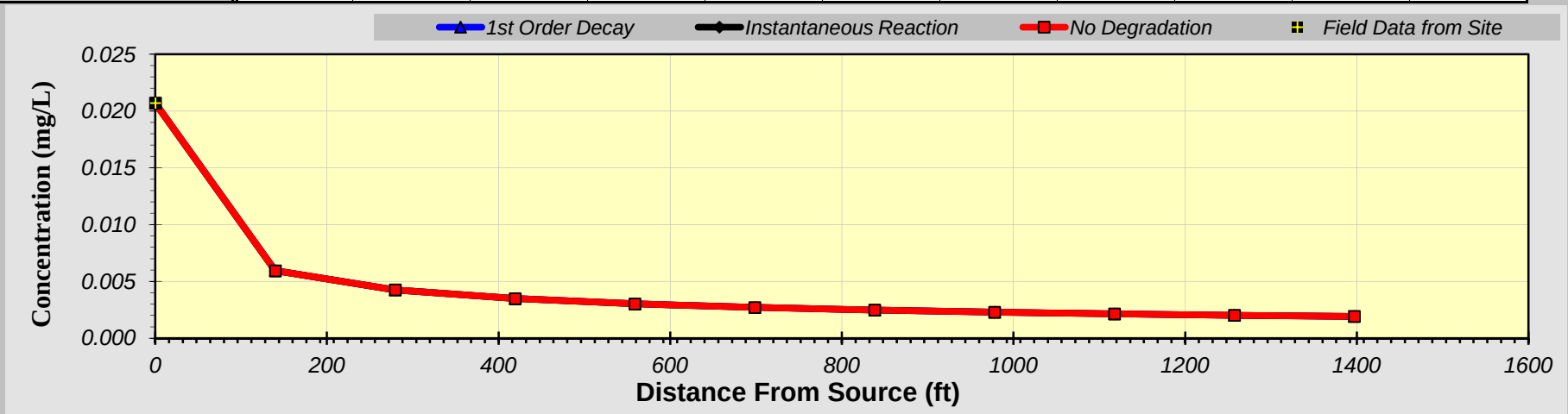
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	140	279	419	559	699	838	978	1118	1257	1397
No Degradation	0.021	0.006	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
1st Order Decay	0.021	0.006	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
Inst. Reaction	0.021	0.006	0.004	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002
Field Data from Site	0.021										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW2-2
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
↑ or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	1.0	*(ft/yr)*
or		↑ or	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.02806	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.5	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		↑ or	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

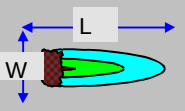
Retardation Factor*	*R*	1.0	*(-)*
or		↑ or	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Kd*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	*1.2E-2*	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		↑ or	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	662	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

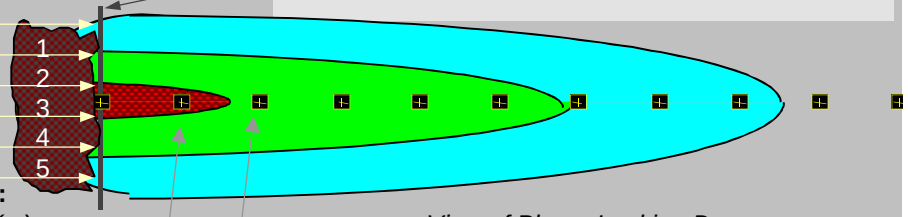
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0294
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	↑ 1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.029										
Dist. from Source (ft)	*0*	*66*	*132*	*199*	*265*	*331*	*397*	*463*	*530*	*596*	*662*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

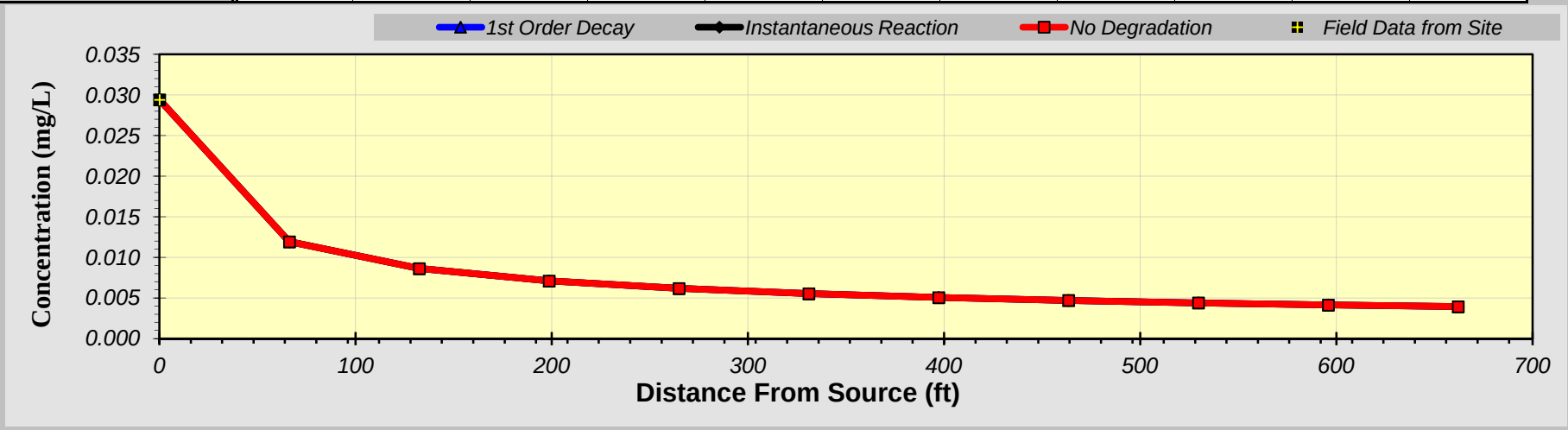
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	66	132	199	265	331	397	463	530	596	662
No Degradation	0.029	0.012	0.009	0.007	0.006	0.006	0.005	0.005	0.004	0.004	0.004
1st Order Decay	0.029	0.012	0.009	0.007	0.006	0.006	0.005	0.005	0.004	0.004	0.004
Inst. Reaction	0.029	0.012	0.009	0.007	0.006	0.006	0.005	0.005	0.004	0.004	0.004
Field Data from Site	0.029										



Calculate Animation

Time: 10,000 Years

Return to Input

Recalculate This Sheet

BIOSCREEN Natural Attenuation Decision Support System

Air Force Center for Environmental Excellence — *Version 1.4*

MW5-4
Arsenic
Run Name

Data Input Instructions:

115 → *1. Enter value directly....or*
or
0.02 → *2. Calculate by filling in grey cells below. (To restore formulas, hit button below).*

Variable* → *Data used directly in model.*
20 → *Value calculated by model. (Don't enter any data).*

1. HYDROGEOLOGY

Seepage Velocity*	*Vs*	1.0	*(ft/yr)*
or		*or*	
Hydraulic Conductivity	*K*	7.1E-06	*(cm/sec)*
Hydraulic Gradient	*i*	0.02806	*(ft/ft)*
Porosity	*n*	0.2	*(-)*

2. DISPERSION

Longitudinal Dispersivity*	*alpha x*	59.5	*(ft)*
Transverse Dispersivity*	*alpha y*	6.0	*(ft)*
Vertical Dispersivity*	*alpha z*	0.0	*(ft)*
or		*or*	
Estimated Plume Length	*Lp*		*(ft)*

3. ADSORPTION

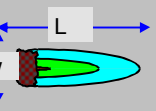
Retardation Factor*	*R*	1.0	*(-)*
or		*or*	
Soil Bulk Density	*rho*	1.7	*(kg/l)*
Partition Coefficient	*Kd*	29	*(L/kg)*
FractionOrganicCarbon	*foc*	*1.2E-2*	*(-)*

4. BIODEGRADATION

1st Order Decay Coeff*	*lambda*	0.0E+0	*(per yr)*
or		*or*	
Solute Half-Life	*t-half*		*(year)*
or Instantaneous Reaction Model			
Delta Oxygen*	*DO*		*(mg/L)*
Delta Nitrate*	*NO3*		*(mg/L)*
Observed Ferrous Iron*	*Fe2+*		*(mg/L)*
Delta Sulfate*	*SO4*		*(mg/L)*
Observed Methane*	*CH4*		*(mg/L)*

5. GENERAL

Modeled Area Length*	595	*(ft)*
Modeled Area Width*	30	*(ft)*
Simulation Time*	10000	*(yr)*



6. SOURCE DATA

Source Thickness in Sat.Zone* 10 *(ft)*

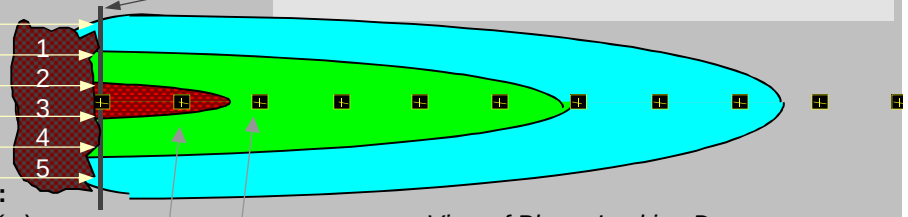
Source Zones:

Width* (ft)	Conc. (mg/L)*
30	0.0465
0	0
0	0

Source Halflife (see Help):

Infinite	Infinite	*(yr)*
Inst. React.	1st Order	
Soluble Mass	Infinite	*(Kg)*
In Source NAPL, Soil		

Vertical Plane Source: Look at Plume Cross-Section and Input Concentrations & Widths



View of Plume Looking Down

Observed Centerline Concentrations at Monitoring Wells
If No Data Leave Blank or Enter "0"

7. FIELD DATA FOR COMPARISON

Concentration (mg/L)	.047										
Dist. from Source (ft)	*0*	*60*	*119*	*179*	*238*	*298*	*357*	*417*	*476*	*536*	*595*

8. CHOOSE TYPE OF OUTPUT TO SEE:

RUN CENTERLINE — **View Output**

RUN ARRAY — **View Output**

Help

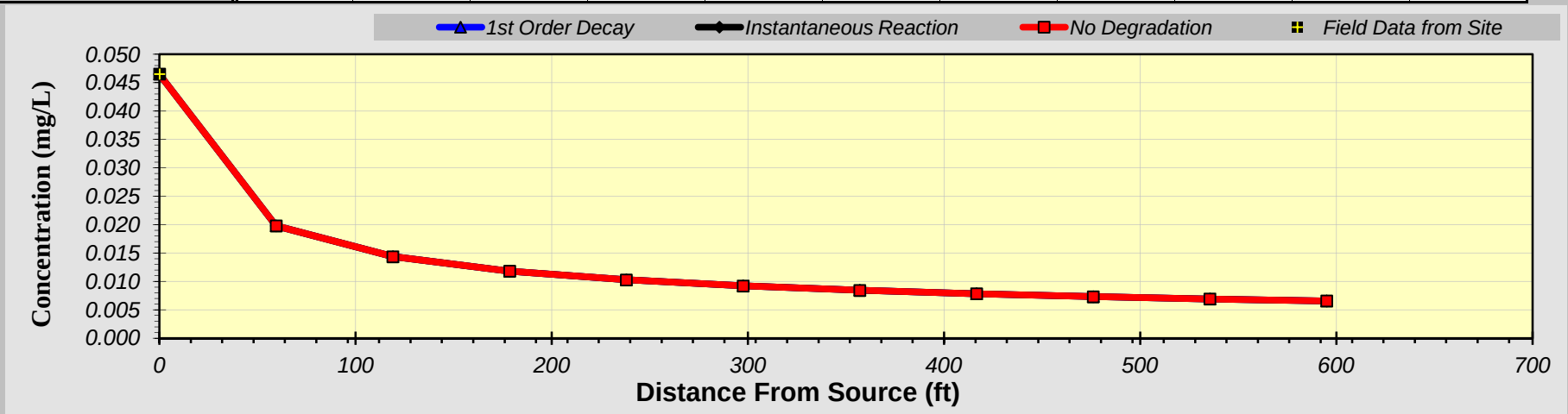
Recalculate This Sheet

Paste Example Dataset

Restore Formulas for Vs, Dispersivities, R, lambda, other

ARSENIC CONCENTRATION ALONG PLUME CENTERLINE (mg/L at Z=0)

TYPE OF MODEL	Distance from Source (ft) 0	60	119	179	238	298	357	417	476	536	595
No Degradation	0.047	0.020	0.014	0.012	0.010	0.009	0.008	0.008	0.007	0.007	0.007
1st Order Decay	0.047	0.020	0.014	0.012	0.010	0.009	0.008	0.008	0.007	0.007	0.007
Inst. Reaction	0.047	0.020	0.014	0.012	0.010	0.009	0.008	0.008	0.007	0.007	0.007
Field Data from Site	0.047										



Calculate Animation

Time: 10,000 Years

Return to Input

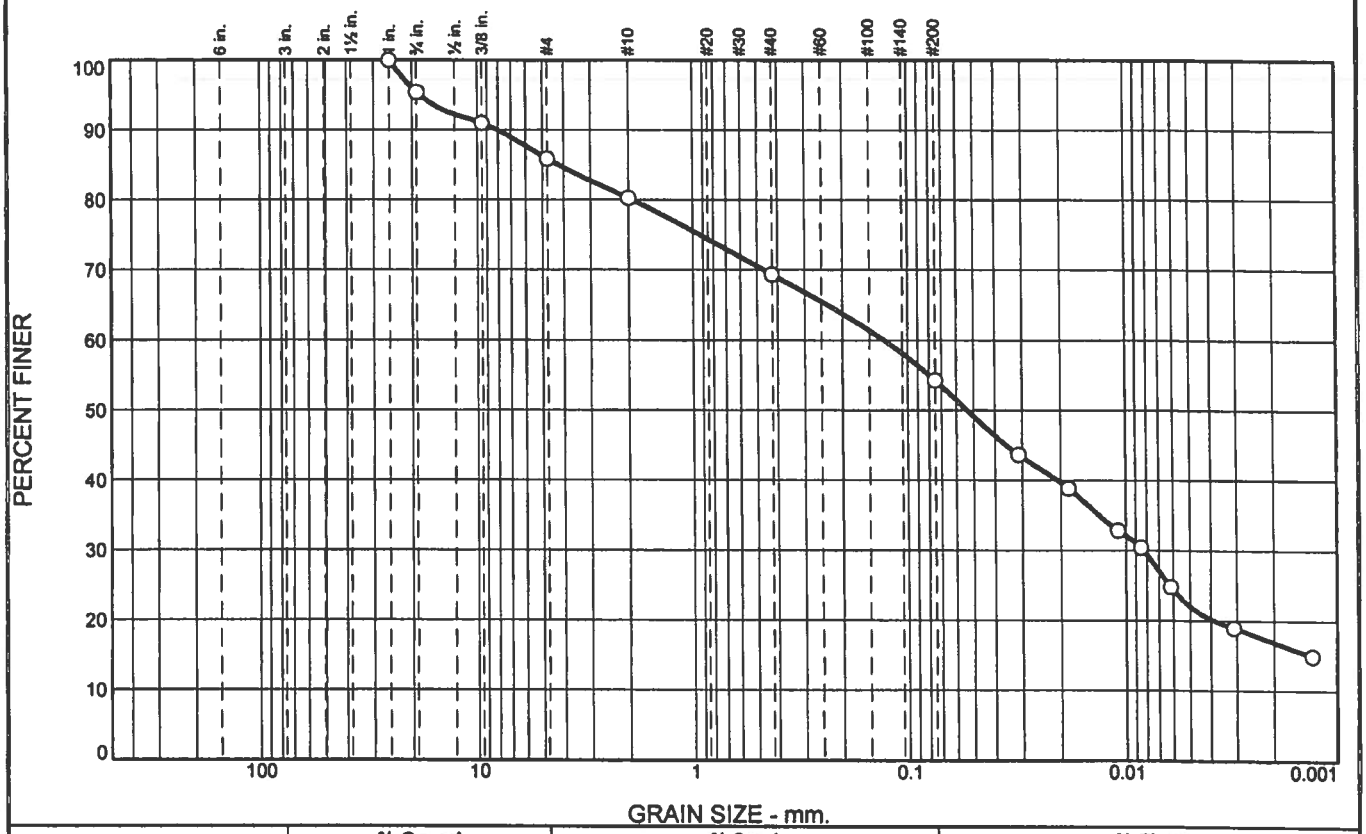
Recalculate This Sheet

Appendix J

Geotechnical Analytical Data Packages

Project :	Mansfield
Project No:	Tetra Tech
Client :	1221-455000
Sample ID :	SB - 21

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	4.6	9.5	5.6	10.9	15.1	37.3	17.0

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.0	100.0		
0.75	95.4		
0.375	91.0		
#4	85.9		
#10	80.3		
#40	69.4		
#200	54.3		

* (no specification provided)

Material Description

sandy lean clay

Atterberg Limits

PL= 16 LL= 27 PI= 11

Coefficients

D_{90}= 8.0992 D_{85}= 4.2241 D_{60}= 0.1284
D_{50}= 0.0533 D_{30}= 0.0083 D_{15}= 0.0013
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(3)

Remarks

Moisture Content = 8.2%
Specific Gravity = 2.69

Source of Sample: SB-21
Sample Number: SB-21

Date: 12-3-12

DLZ

Client: Tetra Tech
Project: Mansfield

Project No: 1221-4550.00 **Figure**

Tested By: Sean Nicodemus **Checked By:** Steven Robinson

Data Input for Index Properties

Moisture Content Data	
Wet Wt. & Cont (g)	333.20
Dry Wt. & Cont (g)	312.88
Wt. Cont (g)	64.90
Wt. Water (g)	20.32
Dry Wt. Soil (g)	247.98
Moisture Content (%)	8.2

Specific Gravity (G)= 2.69

Total Weight of Sample (Wt) wet = 1093.7

Diameters

D_1	1.550	D_4	1.512
D_2	1.548	D_5	1.514
D_3	1.528	D_6	

Avg. Diameter 1.530 in.

Lengths

L_1	19.000	L_4	
L_2		L_5	
L_3		L_6	

Avg. Length 19.000 in.

Volume & Weights

Volume of Sample (V) = 0.0202260 ft^3

Moisture Content(w) = 8.2 %

Mass of Dry Soil (Ws) = 1010.9 g

Mass of Water (Ww)= 82.8 g

Volume of Water (Vw)= 0.00293 ft^3

Volume of Solids (Vs)= 0.01328 ft^3

Volume of air (Va)= 0.00402 ft^3

Volume of Voids (Vv)= 0.00695 ft^3

Porosity (n)= 0.344

Void Ratio (e)= 0.523

Volumetric Water Content= 14.5 %

Volumetric Air Content= 19.89 %

Volume of Immobile pores(V_{iw})= (0.04) ft^3

Field Capicity Number (θr)= (1.77)

Effective Porosity(N_{eff})= 2.109

Densities & Unit Weights

Wet Unit Weight (γ_T) = 119.2 lb/ft³

Bulk Density (dry)(γd)= 110.2 lb/ft^3

Saturated unit Weight (γ_{SAT})= 131.6 lb/ft³

Submerged Unit Wt (γ_{SUB})= 69.2 lb/ft³

Degree of Saturation (S)= 42.1 %

User Input

Client : Tetra Tech
Project Name : Mansfield
Project Number : 1221-455000
Boring : SB-21
Depth :
Date : 12/15/2012

C:\Users\bwong\Desktop\SB-21

Report on Loss of Ignition

(ASTM D-2974)

DLZ Project No.: 1221-4550.00 Boring No. -

Client: Tetra Tech Sample No. SB-21

Project Name: Mansfield Depth -

Date: 11/30/2012

Ceramic Cup Number 804

	Run # 1	Run # 2
Muffle Furnace Temperature	440°C	750°C
Mass of crucible & oven dry soil (A)	151.88	151.88
Mass of crucible (B)	100.98	100.98
Mass of oven dry soil (C)	50.90	50.90
Mass of sample & crucible after ashed in muffle furnace (D)	150.87	148.51
Mass of crucible (B)	100.98	100.98
Mass of ashed soil sample (E)	49.89	47.53
Loss on Ignition = $\frac{C - E}{C} * 100$ =	1.98	6.62

Muffle Furnace Crucible ID: 401

Fractional Organic Carbon = 1.15

(Loss on Ignition @ 440°C X 0.58)

DLZ

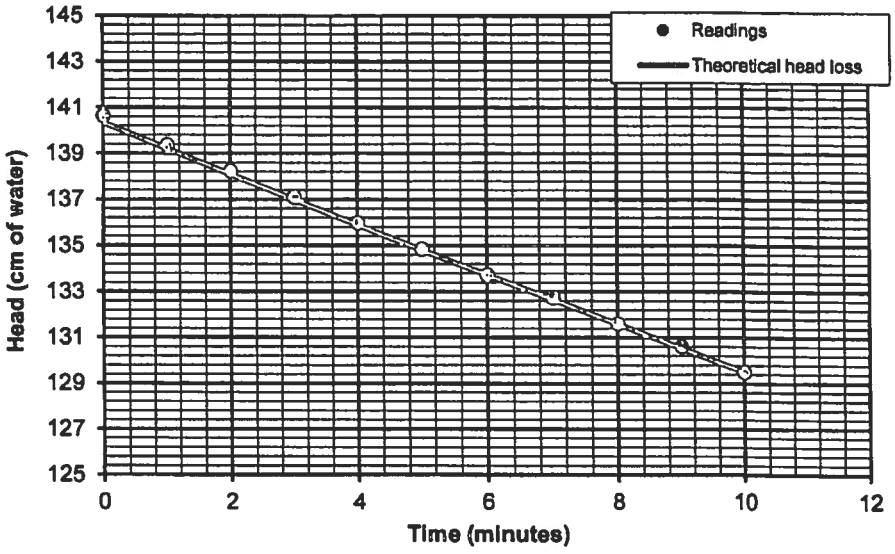
Permeability Test Report

ASTM D 5084 - Method C

Boring:	
Press Tube:	
Sample:	SB-21
Depth:	

Liquid Limit	27
Plasticity Index	11
Specific Gravity	2.69

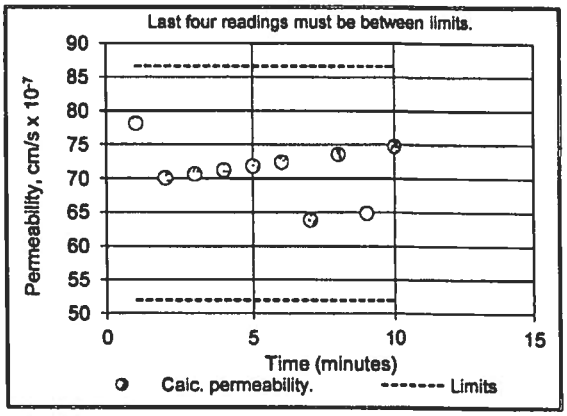
Permeant Liquid
De-aired, deionized water
Temp. (°C)
21.0



	Diameter (cm)	Area, A (cm²)	Length, L (cm)	Moisture (%)	Dry Density (pcf)	Saturation (%)
Initial	7.196	40.67	6.048	8.5	114.4	48.5
Final						

Chamber Pressure (psi)	Backpressure (psi)		Consolidation Stress (psi)		Hydraulic Gradient (-)		
	Inflow	Outflow	Max.	Min.	Max.	Min.	Avg.
60.0	58.0	56.0	4.0	2.0	23.3	21.4	22.3

Date	Time	Buret Readings Inflow	Buret Readings Outflow	Flow Ratio	Head, h (cm)	$k_{20°C}$ (cm/sec)
12/3/2012	13:38	2.1	16.0	——	140.6	——
12/3/2012	13:39	2.5	15.5	1.25	139.4	7.8E-06
12/3/2012	13:40	2.9	15.1	1.00	138.2	7.0E-06
12/3/2012	13:41	3.3	14.7	1.00	137.1	7.1E-06
12/3/2012	13:42	3.7	14.3	1.00	136.0	7.1E-06
12/3/2012	13:43	4.1	13.9	1.00	134.9	7.2E-06
12/3/2012	13:44	4.5	13.5	1.00	133.7	7.2E-06
12/3/2012	13:45	4.9	13.2	0.75	132.7	6.4E-06
12/3/2012	13:46	5.3	12.8	1.00	131.6	7.4E-06
12/3/2012	13:47	5.7	12.5	0.75	130.6	6.5E-06
12/3/2012	13:48	6.1	12.1	1.00	129.5	7.5E-06



$$k_{20°C} = R_T \frac{aL}{2At} \ln\left(\frac{h_1}{h_2}\right) = \text{6.9E-06 cm/sec}$$

a - Area of burets (0.71 cm²)
t - Elapsed time between readings
R_T - Temperature correction factor = (0.980)

Remarks:

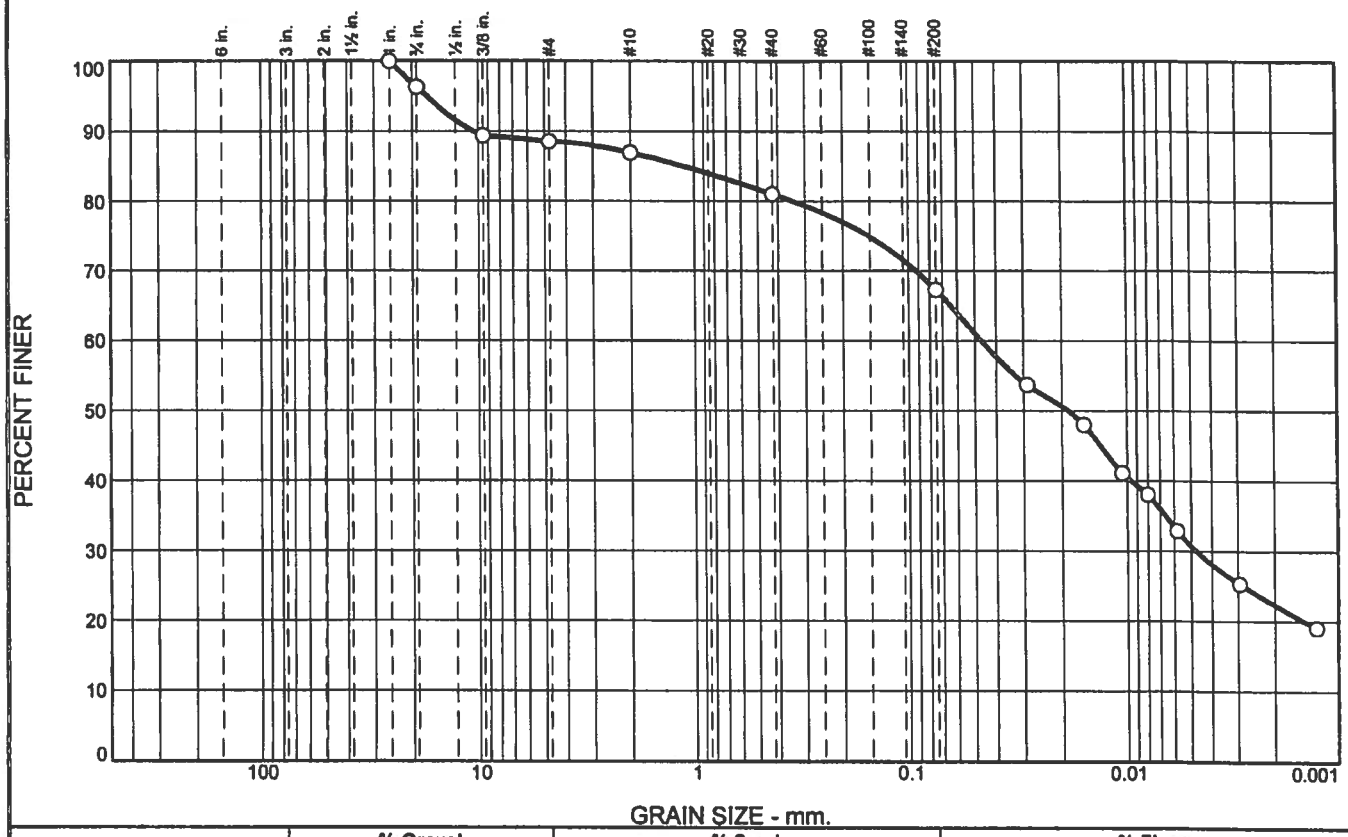
Sample Remolded to 114.4 pcf (Dry Density) at 8.5% moisture.

DLZ

Client: Tetra Tech
Project: Mansfield
Job No: 1221-4550.00

Project :	Mansfield
Project No:	Tetra Tech
Client :	1221-455000
Sample ID :	SB - 24

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.7	7.8	1.6	5.9	13.7	44.9	22.4

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.0	100.0		
0.75	96.3		
0.375	89.4		
#4	88.5		
#10	86.9		
#40	81.0		
#200	67.3		

* (no specification provided)

Material Description

sandy lean clay

Atterberg Limits

PL= 17 LL= 30 PI= 13

Coefficients

D_{90}= 10.5363 D_{85}= 1.1172 D_{60}= 0.0466
D_{50}= 0.0187 D_{30}= 0.0047 D_{15}=
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-6(6)

Remarks

Moisture Content = 11.3%
Specific Gravity = 2.76

Source of Sample: SB-24
Sample Number: SB-24

Date: 12-3-12

DLZ

Client: Tetra Tech
Project: Mansfield

Project No: 1221-4550.00 **Figure**

Tested By: Sean Nicodemus **Checked By:** Steven Robinson

Data Input for Index Properties

Moisture Content Data	
Wet Wt. & Cont (g)	356.34
Dry Wt. & Cont (g)	326.31
Wt. Cont (g)	60.14
Wt. Water (g)	30.03
Dry Wt. Soil (g)	266.17
Moisture Content (%)	11.3

Specific Gravity (G)= 2.76

Total Weight of Sample (Wt) wet = 1212.5

Diameters

D_1	1.550	D_4	1.536
D_2	1.509	D_5	1.520
D_3	1.525	D_6	

Avg. Diameter 1.528 in.

Lengths

L_1	20.500	L_4	
L_2		L_5	
L_3		L_6	

Avg. Length 20.500 in.

Volume & Weights

Volume of Sample (V) = 0.0217544 ft^3

Moisture Content(w) = 11.3 %

Mass of Dry Soil (Ws) = 1089.6 g

Mass of Water (Ww)= 122.9 g

Volume of Water (Vw)= 0.00434 ft^3

Volume of Solids (Vs)= 0.01395 ft^3

Volume of air (Va)= 0.00346 ft^3

Volume of Voids (Vv)= 0.00781 ft^3

Porosity (n)= 0.359

Void Ratio (e)= 0.560

Volumetric Water Content= 20.0 %

Volumetric Air Content= 15.92 %

Volume of Immobile pores(V_{iw})= (0.04) ft^3

Field Capicity Number (θr)= (1.77)

Effective Porosity(N_{eff})= 2.128

Densities & Unit Weights

Wet Unit Weight (γ_T) = 122.9 lb/ft³

Bulk Density (dry)(γd)= 110.4 lb/ft^3

Saturated unit Weight (γ_{SAT})= 132.8 lb/ft³

Submerged Unit Wt (γ_{SUB})= 70.4 lb/ft³

Degree of Saturation (S)= 55.6 %

User Input

Client : Tetra Tech

Project Name : Mansfield

Project Number : 1221-455000

Boring : SB-24

Depth :

Date : 12/15/2012

C:\Users\bwong\Desktop\SB-24

Report on Loss of Ignition

(ASTM D-2974)

DLZ Project No.: 1221-4550.00 Boring No. -

Client: Tetra Tech Sample No. SB-24

Project Name: Mansfield Depth -

Date: 11/30/2012

Ceramic Cup Number 844

	Run # 1 440°C	Run # 2 750°C
Muffle Furnace Temperature		
Mass of crucible & oven dry soil (A)	157.58	157.58
Mass of crucible (B)	107.43	107.43
Mass of oven dry soil (C)	50.15	50.15
Mass of sample & crucible after ashed in muffle furnace (D)	156.58	153.69
Mass of crucible (B)	107.43	107.43
Mass of ashed soil sample (E)	49.15	46.26
Loss on Ignition = $\frac{C - E}{C} * 100$ =	**1.99**	**7.76**

Muffle Furnace Crucible ID: 406

Fractional Organic Carbon = **1.16**

(Loss on Ignition @ 440°C X 0.58)

DLZ

Permeability Test Report

ASTM D 5084 - Method C

Boring:

Press Tube:

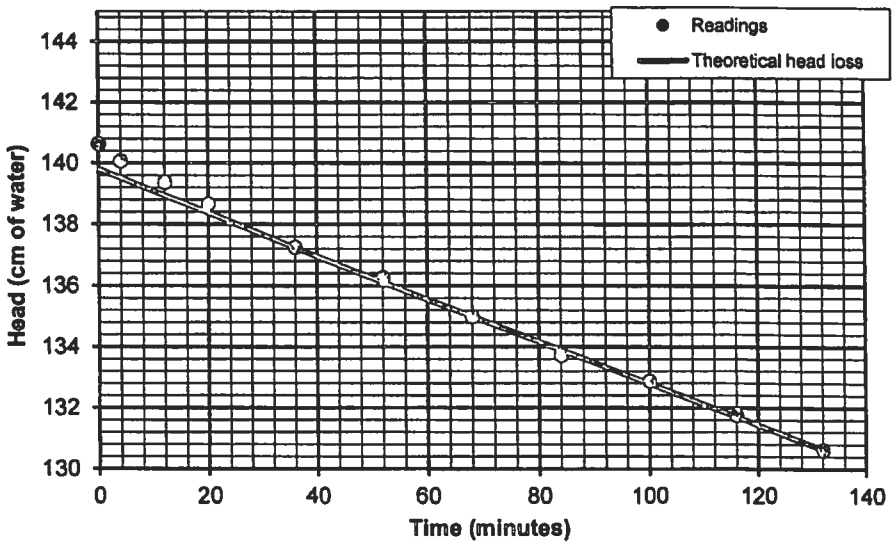
Sample: SB-24

Depth:

Liquid Limit	30
Plasticity Index	13
Specific Gravity	2.76

Permeant Liquid
De-aired, deionized water

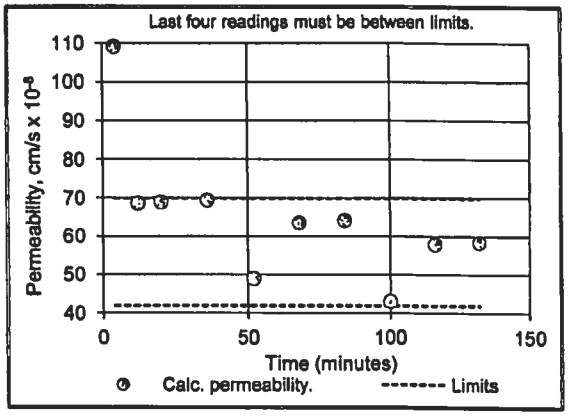
Temp. (°C)
21.0



	Diameter (cm)	Area, A (cm²)	Length, L (cm)	Moisture (%)	Dry Density (pcf)	Saturation (%)
Initial	7.239	41.16	7.711	10.0	118.2	63.5
Final						

Chamber Pressure (psi)	Backpressure (psi)		Consolidation Stress (psi)		Hydraulic Gradient (-)		
	Inflow	Outflow	Max.	Min.	Max.	Min.	Avg.
60.0	58.0	56.0	4.0	2.0	18.2	16.9	17.6

Date	Time	Buret Readings Inflow	Buret Readings Outflow	Flow Ratio	Head, h (cm)	$k_{20°C}$ (cm/sec)
12/3/2012	13:34	1.3	16.9	-----	140.6	-----
12/3/2012	13:38	1.5	16.7	1.00	140.1	1.1E-06
12/3/2012	13:46	1.8	16.5	0.67	139.4	6.9E-07
12/3/2012	13:54	2.0	16.2	1.50	138.7	6.9E-07
12/3/2012	14:10	2.5	15.7	1.00	137.3	6.9E-07
12/3/2012	14:26	2.9	15.4	0.75	136.3	4.9E-07
12/3/2012	14:42	3.3	14.9	1.25	135.0	6.4E-07
12/3/2012	14:58	3.8	14.5	0.80	133.7	6.4E-07
12/3/2012	15:14	4.1	14.2	1.00	132.9	4.3E-07
12/3/2012	15:30	4.5	13.8	1.00	131.8	5.8E-07
12/3/2012	15:46	4.9	13.4	1.00	130.6	5.8E-07



$$k_{20°C} = R_T \frac{aL}{2At} \ln\left(\frac{h_1}{h_2}\right) = 5.6E\text{-}07 \text{ cm/sec}$$

a - Area of burets (0.71 cm²)

t - Elapsed time between readings

R_T - Temperature correction factor = (0.980)

Remarks:

Sample Remolded to 118.2 pcf (Dry Density) at 10.0% moisture.

DLZ

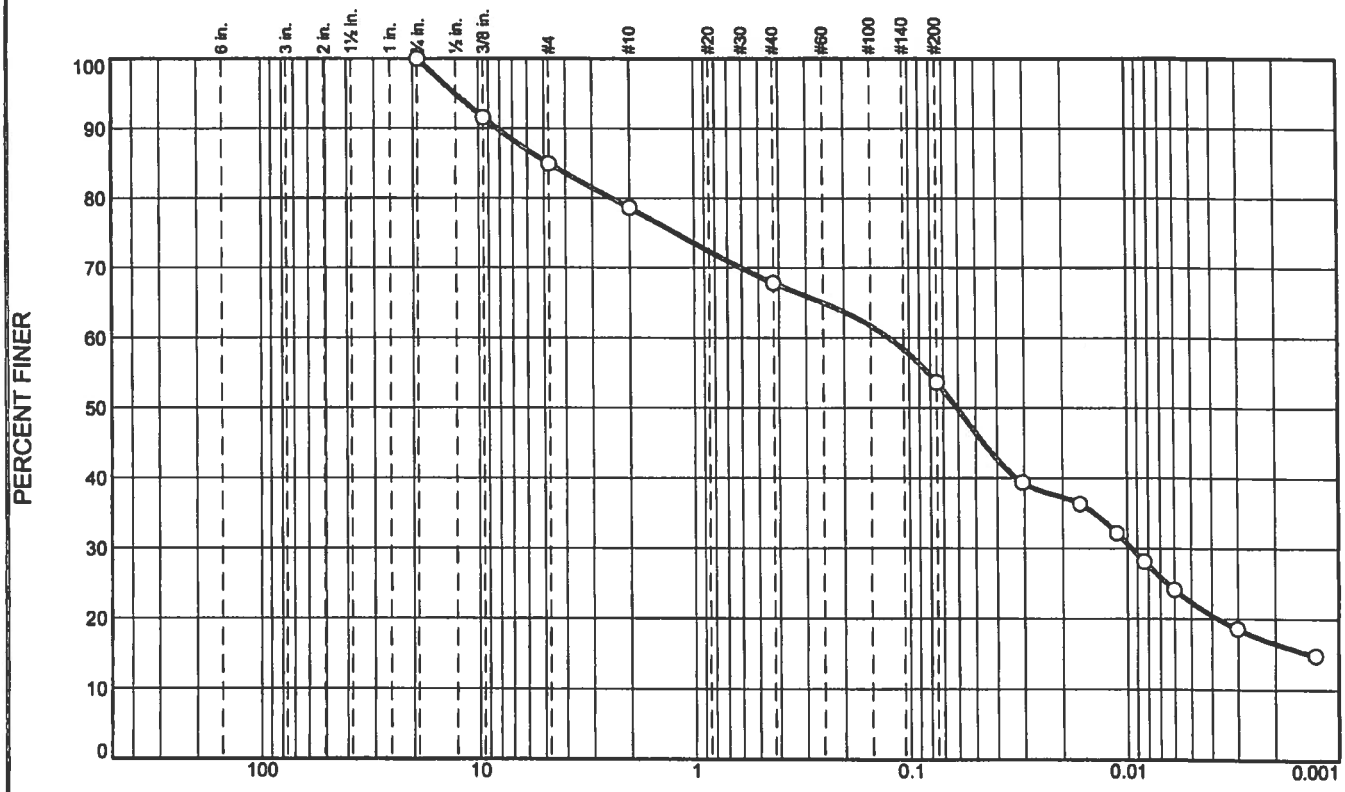
Client: Tetra Tech

Project: Mansfield

Job No: 1221-4550.00

Project :	Mansfield
Project No:	Tetra Tech
Client :	1221-455000
Sample ID :	SB - 26

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	15.0	6.4	10.7	14.2	37.2	16.5

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
0.75	100.0		
0.375	91.6		
#4	85.0		
#10	78.6		
#40	67.9		
#200	53.7		

* (no specification provided)

Material Description

sandy lean clay with gravel

Atterberg Limits

PL= 16 LL= 26 PI= 10

Coefficients

D_{90}= 8.2177 D_{85}= 4.7706 D_{60}= 0.1235
D_{50}= 0.0606 D_{30}= 0.0096 D_{15}= 0.0013
D_{10}= C_u= C_c=

Classification

USCS= CL AASHTO= A-4(2)

Remarks

Moisture Content = 9.4%
Specific Gravity = 2.74

Source of Sample: SB-26
Sample Number: SB-26

Date: 12-3-12

DLZ

Client: Tetra Tech
Project: Mansfield

Project No: 1221-4550.00 **Figure**

Tested By: Sean Nicodemus **Checked By:** Steven Robinson

Data Input for Index Properties

Moisture Content Data	
Wet Wt. & Cont (g)	372.12
Dry Wt. & Cont (g)	345.24
Wt. Cont (g)	60.31
Wt. Water (g)	26.88
Dry Wt. Soil (g)	284.93
Moisture Content (%)	9.4

Specific Gravity (G)= 2.74

Total Weight of Sample (Wt) wet = 903.2

Diameters

D_1	1.550	D_4	
D_2		D_5	
D_3		D_6	

Avg. Diameter 1.550 in.

Lengths

L_1	17.000	L_4	
L_2		L_5	
L_3		L_6	

Avg. Length 17.000 in.

Volume & Weights

Volume of Sample (V) = 0.0185634 ft^3

Moisture Content(w) = 9.4 %

Mass of Dry Soil (Ws) = 825.3 g

Mass of Water (Ww)= 77.9 g

Volume of Water (Vw)= 0.00275 ft^3

Volume of Solids (Vs)= 0.01064 ft^3

Volume of air (Va)= 0.00517 ft^3

Volume of Voids (Vv)= 0.00792 ft^3

Porosity (n)= 0.427

Void Ratio (e)= 0.744

Volumetric Water Content= 14.8 %

Volumetric Air Content= 27.85 %

Volume of Immobile pores(V_{iw})= (0.03) ft^3

Field Capicity Number (θr)= (1.57)

Effective Porosity(N_{eff})= 1.998

Densities & Unit Weights

Wet Unit Weight (γ_T) = 107.3 lb/ft³

Bulk Density (dry)(γd)= 98.0 lb/ft^3

Saturated unit Weight (γ_{SAT})= 124.6 lb/ft³

Submerged Unit Wt (γ_{SUB})= 62.2 lb/ft³

Degree of Saturation (S)= 34.7 %

User Input

Client : Tetra Tech
Project Name : Mansfield
Project Number : 1221-455000
Boring : SB-26
Depth :
Date : 12/15/2012

C:\Users\bwong\Desktop\SB-26

Report on Loss of Ignition

(ASTM D-2974)

DLZ Project No.: 1221-4550.00 Boring No. -

Client: Tetra Tech Sample No. SB-26

Project Name: Mansfield Depth -

Date: 11/30/2012

Ceramic Cup Number 809

	Run # 1	Run # 2
Muffle Furnace Temperature	440°C	750°C
Mass of crucible & oven dry soil (A)	129.81	129.81
Mass of crucible (B)	78.04	78.04
Mass of oven dry soil (C)	51.77	51.77
Mass of sample & crucible after ashed in muffle furnace (D)	128.72	123.01
Mass of crucible (B)	78.04	78.04
Mass of ashed soil sample (E)	50.68	44.97
Loss on Ignition = $\frac{C - E}{C} * 100$ =	2.11	13.14

Muffle Furnace Crucible ID: X

Fractional Organic Carbon = 1.22

(Loss on Ignition @ 440°C X 0.58)

DLZ

Appendix K

Field Notes/Field Data Documentation

6-1 Mansfield Stripping Plant

1035 VIF & KL arrive on site. Pine already dropped off equipment

Well	DTW	DTB	H_2O Col	1 Vol	3 Vol
5-1	12.05	28.69	16.64	2.72	8.18
5-2S	3.75	17.09	13.34	2.18	6.5
5-2D	12.40	32.27	19.87	3.25	9.7
5-4	4.80	28.08	23.28	3.81	11.4
4-7	4.15	17.45	13.30	2.18	6.54
11-12	Lunch / Lowes				
1-6	52.78	54.15	1.37	———	
10-2	11.4	19.95 marked (MAP says 10-1)		3.55	
10-1	43.85	55	11.15	1.82	5.48
2-1	42.05	58.32	16.27	2.66	8.00
2-2	37.64	51.96	14.32	2.34	7.04
6-1	31.60	32.11	0.51	———	
9-1	36.13	37.22	0.99	———	

1245 arrive at 1-6. No water coming from pump

1300 to 5-4 | vit 6/1/11

1308 Begin purging 5-1
flow - 40ml / 5.8s

1324 12.75°C 6.09pH
0.60mg/L DO 1.43mS
560 NTU

1328 - 3g purged

1329 12.96°C 6.19pH
0.62mg/L 1.46mS
242 NTU

1335 13.07°C 6.28pH
0.60mg/L 1.45mS
157 NTU

1346 13.33°C 6.41pH
(.58/1.74) 0.61mg/L 1.46mS
73 NTU

6g purged

1350 13.11°C 6.45pH
0.60mg/L 1.46mS
47.6 NTU

1353 13.11°C 6.46pH
0.59mg/L 1.46mS
48.1 NTU

1356 13.27°C 6.49pH
0.59mg/L 1.46mS
43.5 NTU

1400 Sample - metals 7.5g purged

6-1-11

1917 Begin purging 5-2S
Flow: 40ml/6S

1433 12.32°C 0.91mg/L 6.61pH
0.863mS 28.9 NTU

3 gallons purged

1436 12.46°C 0.79mg/L 6.60pH
0.864mS 31.4 NTU

1442 12.57°C 0.60mg/L 6.60pH
0.862mS 20.0NTU

1445 12.58°C 0.58mg/L 6.60pH
0.862mS 20.0 NTU

1448 12.60°C 0.57mg/L 6.58
0.861 16.5 NTU

1461 12.66 0.55 6.60
0.861 16.1

1454 12.67 0.53 6.57
0.861 15.4

sample at 1455 5.5g purged

1503 Begin purging 5-2D
Flow: 4.3S/40ml

1326 3g purged

1529 12.03°C 0.57mg/L 6.80 pH
1.12mS 108NTU

1541 12.54 0.49 6.80
1.14 59.7

1544 12.65 0.49 6.79
1.14 55.6

1547 12.78 0.61 6.80
1.15 45.4

1553 12.92 0.49 6.80
1.15 39.8

1556 12.95 0.48 6.80
1.15 37.3 7g Purged

1559 12.99 0.48 6.80
1.16 36.2

Sample @ 1600
1630 - offsite to hotel

VF

6/2/11 Mansfield Stamping Plant Phase II

0700 Arrive onsite
Auto cal Horiba
pH 3.93/4 cond 5.02/4.49mS
Get gas
0757 Resume purging 5-25
VF 6/2 ~~12.40°C~~ 12.87°C 7.41 mg/L
5.69 pH 0.892mS 99.4 NTU
3g purged Flow 11.5s/40ml
0803 12.13°C ~~5.8~~ 3.50mg/L 6.07pH
.873mS 54.9 NTU
0807 12.15°C VF 6/2 2.33mg/L 6.13pH
0.871mS 49.3 NTU
0810 12.66°C 2.83mg/L 6.13pH
0.857mS 10.9 NTU
0814 12.44°C 2.43mg/L 6.12pH
0.865mS 11.5 NTU
0817 12.32°C 3.13mg/L 6.15pH
0.865mS 8.4 NTU
0820 12.26°C 3.16mg/L 6.18pH
0.861 8.8 NTU
0823 12.37°C 3.30mg/L 6.16
0.68 7.1 NTU
6.5g purged. Sample @ 0825

6/2/11 Mansfield Stamping Plant Phase II

0833 Begin purging MW5-2D
Flow 8.95/40mL
0906 3g purged

0924 15.94°C 1.72 mg/L 6.41 PH
1.12 mS 125 mtu
0929 14.39°C 3.24mg/L 6.45pH
1.17mS 65.2 NTU
0932 14.00°C 3.13mg/L 6.46pH
1.18mS 47.0 NTU
0935 13.79°C 3.55mg/L 6.51pH
1.19mS 42.4 NTU
5.5g purged
0940 13.80°C 3.24mg/L 6.48pH
1.19mS 33.8 NTU
0943 13.97°C 3.11mg/L 6.46pH
1.21mS 32.6 NTU
0946 14.00°C 3.14mg/L 6.53pH
1.19mS 28.2 NTU
Sample at 0952 7g purged
0952 Begin purging 5-4
10:22 3.5 g purged

10:30 14.08°C 2.08 mg/L 6.31 PH
1.4 ms 127 NTU

6/2/11 Mansfield Stamping PH Phase II

10:36	13.97°C	1.88mg/L	6.23PH
	1.42 ms	72 NTU	
10:40	13.7 °C	2.19 mg/L	6.22 PH
	1.42 mS	57 NTU	
10:44	13.7°C	2.40 mg/L	6.24PH
	1.42 mS	42.6 NTU	
	6.5g purged		
1047	13.68°C	2.48mg/L	6.25pH
	1.42mS	39.3NTU	
1050	14.64	2.81mg/L	6.24pH
	1.43mS	37.3NTU	
1056	13.68°C	2.05mg/L	6.23pH
	1.40mS	62.1 NTU	
1100	13.04°C	1.83	6.28pH
	1.43mS	28.1 NTU	
1103	13.16°C	1.77mg/L	6.22 pH
	1.42mS	45.4 NTU	
1106	13.12°C	1.95mg/L	6.25 pH
	1.42mS	51.2 NTU	
1110	13.57°C	1.80mg/L	6.24pH
	1.43mS	37.6 NTU	
	~10.5g purged		

6/2/11 Mansfield Stamping Plant Phase II

1113	13.42°C	1.73mg/L	6.26pH
	1.42mS	31.0 NTU	
1116	13.68°C	2.87mg/L	6.25 pH
	1.42mS	28.4 NTU	
1119	13.54°C	2.44 mg/L	6.26pH
	1.42mS	24.1 NTU	

~11.5g purged (3 volumes) Sampled @ 1125

1125-1225 Lunch

1225 Begin purging 5-1

12:50 purged 3.5G

12:57	15.0°C	1.92mg/L	6.44PH
	1.39 mS	113 NTU	
1300	14.62°C	2.77mg/L	6.50pH
	1.41mS	83.5 NTU	
1305	14.52°C	2.38mg/L	6.37pH
	1.42mS	86.4 NTU	

VIC 6.2" 65.5 gallons purged

1309	14.40°C	2.52mg/L	6.55
	1.43mS	160NTU	
1312	14.23°C	2.25	6.45 pH
	1.43mS	162 NTU	

6/2/11 Mansfield Stamping Plant Phase II

1315 14.07°C 2.23mg/L
6.47pH 1.43mS 117NTU
7.5g purged
1318 14.23°C 2.04 mg/L
6.41pH 1.44mS 97.6 NTU
1322 14.01°C 3.09mg/L
6.47pH 1.43mS 71.7NTU
8.5g purged. Sampled at 1326
1330 arrive at MW10-2
1336 begin purging MW10-2
8.6s/40mL
1343 16.66°C 4.89 mg/L 6.61pH
3.04mS 315 NTU
1346 16.40°C 2.77mg/L 6.40pH
3.17mS 194NTU
Purged 1 gallon
Sample at 1350. Purged ~1.5g
Filled VOC, dry. Left to recharge.
1410 arrive at mw2-1
flow 4.9s/40ml
1429 3.5g purged
1449 21.18°C 6.17pH 8.78mg/L
1.48mS 800 NTU (flashing)

6.2.11 Mansfield Stamping Plant Phase II

1455 7.5g purged; water still very turbid
1459 20.12°C 1.48mS 3.75mg/L
5.90pH 449 NTU
1503 19.58°C 1.48mS 2.82mg/L
5.92pH 273 NTU
8g purged. Sample @ 1506
1515 Begin purging mw2-2
1543 3g purged
1552 18.86°C 6.72pH 3.18mg/L
1.39mS 305 NTU
7g purged
1555 18.18°C 6.44pH 1.39mS
254 NTU 2.51 mg/L
1558 18.34°C 6.838pH 1.39mS
557NTU 2.64 mg/L
8g purged, sample @ 1600
1612 Begin purging 4-7
flow 12.5s/40ml
1631 14.64°C 7.17 pH 3.85mS
179 NTU 3.18mg/L
1637 14.34°C 7.27 pH 3.89mS
114 NTU 2.72mg/L
2.5g purged

6/2/11 Mansfield Stamping Plant Phase II

1640 14.42°C 7.22pH 2.07 mg/L
3.95mS 100 NTU
1644 14.21°C 7.27pH 2.35mg/L
4.04mS 84.0 NTU
3.5g purged
1647 14.26°C 7.26pH 2.03mg/L
4.11mS 78.2 NTU
1651 14.40°C 7.24pH 2.37 mg/L
4.15mS 70.9 NTU
4g purged
1655 14.21°C 7.17pH 1.91 mg/L
4.18 mS 62.2 NTU
1658 14.11°C 7.11pH 1.80 mg/L
4.24mS 80.2 NTU
1701 13.05°C 7.09pH 1.33 mg/L
4.24mS 52.4 NTU
1704 12.78°C 7.12pH ~~2.18~~ 1.60 DIC 6/2/11 mg/L
4.38mS 35.8 NTU
1707 12.70°C 7.05pH 1.82mg/L
4.43mS 27.4 NTU
1710 12.67°C 4.50mS 1.80 mg/L
7.05pH 27.2 NTU

6/2/11 Mansfield Stamping Plant Phase II

1713 12.57°C 1.89mg/L 4.51mS
7.03pH 19.4 NTU
6.5g purged. Sampled at 1715
Returned to 10-2, no water in well
1720-1800 Pack samples & drop off equip @ security for Pine.
1800 off site

Appendix L

Ohio EPA Incident Reports and Correspondence

Emergency Response Section - Initial Pollution Incident Report (IPIR)

1/7/2011

Spill Id Number: 9010-70-5040 **District:** CD

Reported By:	COMPANY	**Reported:**	10/24/1990 15:49
Title:		**Discovered:**	10/24/1990 08:30
Telephone:	(000) 000-0000 ext:	**Occurred:**	00/00/0000
Affiliation:	COMPANY	**Chronic:**	N

County:	RICHLAND	**City/Township:**	MANSFIELD
Did Spiller Report ?	N	**Complaint ?**	N
Received By:	PRE1993 TO ENTER	**Priority:**	3
Local EPC ?	N	**Did you tell the Spiller to Call the N.R.C ?**	N
Business:	N	**SARA Report:**	N

Suspected Spiller: GENERAL MOTORS / CHEVROLET PROD CENTER
Mailing Address: 2525 W. FOURTH ST.

Telephone: (419) 755-5351 **ext:**

Location: 2525 W. FOURTH ST.
Source: FIXED FACILITY - INDUSTRY - WASTE SYSTEM

Cause:	PERMIT VIOLATION	**Reason:**	UNKNOWN REASONS
Waterways Affected:	CLEAR FORK TRIB	**Media Affected 1:**	SURFACE WATER/STORM
Media Affected 2:		**Media Affected 3:**	

Product(s) Spilled

Product	Amount	UOM	RQ	Size	Type	EHS
WASTE WATER	.0	UNK	.0	U	WW	N

Other Agencies Notified

Agency	Person	Date	Time
DSW/WW		00/00/0000	

Remark

5040
30 mg/l and they are permitted to 10 mg/l. Wes.

Emergency Response Section - Initial Pollution Incident Report (IPIR)

1/7/2011

Spill Id Number: 9011-70-5308 **District:** CD

Reported By: CO
Title:
Telephone: (000) 000-0000 **ext:**
Affiliation: COMPANY

Reported: 11/12/1990 15:54
Discovered: 10/30/1990 :
Occurred: 00/00/0000
Chronic: N

County: RICHLAND **City/Township:** MANSFIELD
Did Spiller Report ? N **Complaint ?** N
Received By: PRE1993 TO ENTER **Priority:** 4
Local EPC ? N **Did you tell the Spiller to Call the N.R.C ?** N
Business: N **SARA Report:** N

Suspected Spiller: G M
Mailing Address: N/A

Telephone: (000) 000-0000 **ext:**

Location: 2525 4TH ST.
Source: FIXED FACILITY - INDUSTRY - CULVERT/MANHOLE/OUTFALL
Cause: PROCESS MALFUNCTION **Reason:** RAIN / FLOODING
Waterways Affected: CREEK **Media Affected 1:** SURFACE WATER/STORM
Media Affected 2: **Media Affected 3:**

Product(s) Spilled

Product	Amount	UOM	RQ	Size	Type	EHS
OIL & GREASE	.0	UNK	.0	U	O	N

Remark

5308
14 mg/l of oil to grease in storm water - 10 mg/l is permitted level, left message at facility @ 1610 11/12, Fish @ 1437 11/14 - possible source is that found trucking terminal which had quit on clean up which has storm water runoff, are piles of diesel fuel contaminated soil, OEPA & SFM are supposed to have been there on 11/13. Is Bender & Louden Trucking Co, requested he contact district office DWPC and report NPDES violation. Wes.

Chevrolet·Pontiac·Canada Group

Mansfield Plant
General Motors Corporation
2525 West 4th Street
P O. Box 2567
Mansfield, Ohio 44906

Certified Mail
Return Receipt Requested
No P 923 053 177

November 16, 1990

Ohio Environmental Protection Agency
361 E. Broad Street
P.O. Box 1049
Columbus, Ohio 43266-0149

'90 NOV 19 P3:05

EMERGENCY RESPONSE

RECEIVED
90 NOV 19 AM 11
OHIO EPA EMERGENCY RESPONSE

Dear Sir:

The intent of this letter is to provide written confirmation of the telephone notification No. 11-70-5308 made to the office of Ohio Environmental Protection Agency Emergency Response on November 12, 1990 at 3:43 p.m. concerning an excursion of oil and grease in our storm water effluent.

Listed below is pertinent information:

Callers Name:	Edward Fish
Position:	Chief Power House Engineer
Company:	C-P-C Group of General Motors Corp. Mansfield Fabricating Plant 2525 W. Fourth Street Richland County Mansfield, Ohio 44906
Telephone:	(419) 755-5351
NPDES Permit #:	2IS00045*CD
Application #:	OH0006050
Level of Excursion:	14 mg/l on 10-30-90
Permit Limitation:	10 mg/l
Streams Affected:	Unnamed tributary to Clearfork Reservoir

A follow up call made to Mr. Rich Carter, Duty Officer, Ohio EPA Emergency Response, on November 14, 1990 and logged as Notification No. 11-70-5339. The purpose of the phone call was to report results of the investigation as to the source of the oil and grease detected in the storm water discharge samples taken on October 8 and October 30, 1990.

There were no spills reported on the plant property to cause a release. Visual monitoring of the lagoon noted normal conditions. The floating baffle, brill skimmer and underflow weir were all in place and operating properly in the storm water pond during this period.

Two ditches (hereafter referred to as "Beer Road" and "State Route 309" ditches) which flow onto C-P-C property were inspected the morning of 11-13-90 to determine if surface water runoff from the adjacent commercial and industrial properties may have caused contamination. A visible sheen was observed on the surface of the water in the ditch along Beer Road. Visual trail of the sheen led the observer upstream to the former Bender & Louden Trucking Terminal, where the contamination apparently originated. This terminal, located at 815 N. Beer Road, was once the site of underground diesel fuel tanks.

Absorbent socks are in place where the Beer Road and State Route 309 ditches flow on to C-P-C property. The sock along Beer Road had become tangled in the fence, allowing contaminants (observed as visible oil sheen) to enter our property. Absorbent pads were used to blot up the contaminantson November 11, 1990.

The C-P-C Mansfield storm water pond discharge was sampled again on November 12, 1990. The oil & grease level was found to be within the permit limitation. The results were as follows:

C-P-C Storm Water Pond	2 mg/l	11-12-90

C-P-C Mansfield has increased inspection frequency of the Beer Road ditch to ensure that the absorbent sock is in place and to note visual appearance of the ditch.

Contamination flowing onto the C-P-C property from the ditch along Beer Road appears to have caused the oil & grease level in the C-P-C Mansfield storm water pond discharge to exceed the NPDES permit limit during the month of October 1990.

Please contact Edward Fish at (419) 755-5351 if there are any questions regarding this matter.

Sincerely,

for Jorge Broggio
Plant Manager

cc: R. Baker Ohio EPA NWDO
file

OhioEPA
State of Ohio Environmental Protection Agency

FIKSIRF

INITIAL POLLUTION INCIDENT REPORT 1990

I.D. Number 11-70-5308 ☐ Confidential Status Requested/Enforcement Sensative

1. Time & Date Reported ~~1550~~ 1554 11/12 2. Discovered ____ 3 Occurred 10/30
4. Reported by (Name) Ed Fish Title [redacted] Chief/Powerhouse Engr
5. Telephone 419-755-5351 Entity Reporting: Co. Did Spiller Report? (Y) N Complaint? Y (N)
6. Suspected Spiller G.M. Telephone ____
7. Mailing Address ____
12. Location of Spill: (County) Richland (Town/TWP) Mansfield (Section) ____
13. (Street Location) 2525 4th St (Lat & Long) ____
15. Product Spilled oil & grease 16. Amount 14 mg/l RQ? yes Type: O Size: U
Product Spilled ____ Amount ____ RQ? ____ Type: ____ Size: ____
Sources of Spill NPDES violation Size: U Priority: IV
17. Areas Affected Waterway/Topography: A L (W) G O N creek Weather NA
20. Exposure Potential L M G E ____ Protection Level A B C D ____

EIO 4GNG

- 14 mg/l ~~oil~~ of oil & grease in stormwater → 10 mg/l is permitted level
- left message at facility @ 1610 11/12
Fish @ 1437 11/14 → possible source is that found trucking terminal [redacted] which had quit on cleanup which has stormwater runoff, are piles of diesel fuel contam. soil, OEPA & SFM are supposed to have been there on 11/13. Ds Bender & Loudon Trucking Co., requested he contact district office DWPC and report NPDES violation

Did You Tell Spiller To Call: The N.R.C.? Y N (1-800-424-8802, Washington, D.C.) The Local EPC? Y N (# in Duty Book)

	Send Copy	Time & Date	Talked to
District Office CDO/NW	☐	11/13 @ 905	VEO
USEPA/USCG	☐		
SFM (752-7938)	☐		
ODNR (night 265-7006)	☐		
District Engineer	☐		
Water Supply (4-2752)	☐		
DSHWM	☐		
Dept of Health	☐		
ODA (866-6361)	☐		
PIC (2160) Al Franks (848-9691)	☐		
Local Agency or LEPC	☐		
Local FD or PD	☐		
WQMA/Ground Water	☐		
G.M.		1435 11/14	Ed Fish

0.1 hr

revised: 1-89
EPA 0300

Follow-up
Business: Y N SARA Report: Y N District: Y N ____ Received By R. Pinto

SUSPECTED RELEASE REPORT

REPORT #: 7 0 9 1 4 1 7 . 1 0 1 . 1 9 0 0 1 0 1 DATE: 6/2/89

[1] PERSON REPORTING THE RELEASE TIME: 12:05

NAME: Mike Kashlock TITLE: Env. Supervisor PHONE: (419) 755-5611

AGENCY/COMPANY: General Motors RELATION TO SITE: Public

ADDRESS: 3535 W. 4th St. CITY: Mansfield ST: Oh ZIP: 44906

REMARKS: Soil contamination in UST pit. Code 8

[2] SUSPECTED RELEASE LOCATION

FACILITY: Rudge Loudon Motor Freight USTR ID# 70-391

ADDRESS: 876 N. Rose Rd. COUNTY: Richland

CITY: Bellville ST: Oh ZIP: 44813 PHONE: ( )

UST OWNER: Rudge-Loudon Motor Freight Terminal Inc PHONE: (419) 529-2511

REMARKS: 1119 Jenkins Blvd Akron, Ohio 44301 Eric Hewitt Equipment Manager 1-800-362-3676
Mr. Kashlock stated he smelled above soil contamination in UST pit.
Also saw petro. hydrocarbon contamination in vault pit by UST pit

FIRE DEPT: Bellville Fd CONTACT: Lt. Stiffler PHONE: (419) 886-3333
Box 124 Bellville 886-4416

[3] CONDITIONS LEADING TO REPORT OF SUSPECTED RELEASE (*Check all that apply*)

___ Inventory control results indicate a release may have occurred.

___ Testing, monitoring or sampling results indicate a release may have occurred.

___ Unusual operating conditions observed (e.g., sudden drop in tank volume).

__✓ Impacts noticed in area surrounding tank (e.g., vapors, well contaminated, run-off).

__✓ Soil contaminated, or soil exceeds 100 ppm total hydrocarbons using G.C. or O.V.A.

___ Spill or overfill of petroleum in excess of 25 gallons.

___ Spill or overfill of petroleum less than 25 gallons when containment is not possible.

___ Spill or overfill of petroleum below ground, or soaking into ground after spill.

___ Spill or overfill of petroleum to surface water when petroleum created sheen on water.

OTHER CONDITIONS: Drain from vault pit flows into a ditch which flows to a ditch on G.M.'s property. Ditch eventually

[4] SUSPECTED SUBSTANCE RELEASED Ditch goes into man-made lagoon on G.M.'s property. G.M. has booms in lagoon to contain spills.

___ GASOLINE __✓ DIESEL FUEL ___ KEROSENE ___ USED OIL ___ HYDRO LIFT
___ OTHER PETRO ___ HAZ SUBSTANCE ___ PROBLEM FLAG ___ UNKNOWN

*******COMPLETE REVERSE SIDE*******

[11] REPORT DISPOSITION (*Indicate actions taken on reverse side*)

TAKEN BY: K. Gill EMERGENCY ACTION? __ YES __ NO BY: ✓ FM __ OEPA (K. Gill) 6/8/89

COORD: C. Hill REPORT/ACTION APPROVED: [signature] DATE: 6/9/89 TIME: 8:45 A

LOGGED BY: Thompson DATE: 6/9/89 ENTERED BY: Thompson DATE: 6/9/89

CIRCLE STATUS: RPT SUS DIS (CON) ICA ICR PRIORITY: 1 (2) 3 4 CLASS: A B (C) (D) LTF NON-LTF
ICC SAS SaC CAS CAP NFA

[5] RELEASE INFORMATION

DATE FIRST DETECTED: __/__/__ TIME __:__ MULTIPLE SUSPECTED SOURCES __ YES ✓ NO

ACTUAL SUBSTANCE RELEASED: -unk-

EST. QUANTITY: -unk- EST. CONCENTRATION: -unk- EST. DURATION: -unk-

MEDIA EFFECTED (*Check all that apply*):

___ PAVEMENT ___ BASEMENT ✓ SOIL ___ GROUND-WATER ___ SURFACE WATER ___ SEWERS

___ OTHER:

PROBABLE CAUSE: -unk-

LTF ELIGIBLE? ✓ YES ___ NO *If no, why?*:

[6] UST INFORMATION

FACILITY REGISTRATION CURRENT? __ YES __ NO __ UNKNOWN (*Attach USTR's for all facilities*)

UST NO.	AGE	CAPACITY	-CONST.- MATERIAL	PROTECTION- INTERNAL	PROTECTION- EXTERNAL	PROTECTION- OVERFILL	-RELEASE- DETECTION	SUBSTANCE	STATUS
1	22	8,000 gal	Steel					diesel	
2	22	8,000 gal	Steel					diesel	

(*Record any additional tanks on additional pages*)

PROBABLE LOCATION OF RELEASE: TANK NO.__ PIPE BETWEEN _____ AND _____

OTHER POTENTIAL SOURCES OF RELEASE:

[7] SITE/HAZARD INFORMATION

IMPORTANT SITE OR SURROUNDING AREA CHARACTERISTICS: Owner/Operator lives on site about 100 yards from site (MR. Rex Boop). Site typical

OTHER FIRE/WATER HAZARDS AT THE SITE: Dealt with cleaning up this issue its from previous UST leak. Bill Wolfe said we took empty

KNOWN INJURIES OR PROPERTY DAMAGE: ~~None~~ and are with about 6,000 gallons

PROXIMITY TO DRINKING WATER SOURCES: ~~Private well~~ 100 yds from Petroleum pumping. He

[8] INITIAL RESPONSE ACTIONS BY OWNER/OPERATOR (*Check all that apply*) ~~does not have a~~ private well

___ Release confirmation/Investigation (COMPLETE INVESTIGATION/CONFIRMATION REPORT)
✓ Initial corrective action procedures
___ Free product removal
___ Long term corrective action plan
___ Initial site investigation
___ Site assessment/Exposure assessment
___ Unknown/undetermined

[9] OTHER AGENCIES NOTIFIED PRIOR TO THIS REPORT (*As Reported*)

AGENCY: _____ NAME: _____ DATE: __/__/__ TIME: __:__

AGENCY: _____ NAME: _____ DATE: __/__/__ TIME: __:__

[10] RUSTR ACTIONS TAKEN

Called local F.D. Will check site out. Called Health Dept (Joe Evans) and told him of situation. Consulting Contractor - Municipal Maintenance. He will meet me at 10:00 meeting at Bender-Louden

OHIO DEPARTMENT OF HEALTH LABORATORY

Sample Submission Report

Date Received

Date Reported

Laboratory

Laboratory Number

Analyst

Station

Station Code

County

Collected by

Identification of Samples

Sample Code

Date of grab sample (or last date of composite sample)

Composite Type

Sample Types ☐ Industrial ☐ Sewage ☐ Water Supply ☐ Stream

Beginning Date of Composite Sample

Frequency

Analysis to be Reported to ☐ CO ☐ SEDO ☐ NEDO ☐ NWDO

REASON FOR TAKING SAMPLE ADDITIONAL INFORMATION - REMARKS BY ANALYST

Number of Samples

	Name and Title	MILITARY TIME Year	Month	Day	Hour	Minute
Received from						
Received by					05	
Received from						
Received by						
Received from						
Received by						
Received from						
Received by						
Received from						
Received by						

Time and Date

709417

TRIP TICKET

ADM-3263 (Rev. 10/79)

	AGENCY SFM	UNIT [redacted] / BLAZER
	ADDRESS	UC NO. 4-187

DRIVER'S NAME	TEL. EXT.	DATE/TIME OUT	DATE/TIME IN
K. G. II		8:00 A.M. 6/8/79	4:30 P.M. 6/8/79

PASSENGER NAMES: -NONE-

Gals. Gas Used

Qts. Oil Used

End Miles

Beg. Miles

Total Miles

CHARGE

DISPATCHER

VEH. INSP.

MO./DAY	TRAVEL POINTS	TIME ARR.	MILES	TIME DEP.
6/8	FROM: SFM			8:00
6/8	TO: Ontario	10:00	80	
6/8	FROM: Ontario			2:00
6/8	TO: SFM	4:30	78	
	TO:			

DRIVER'S COMMENTS (note damage, defects, etc.)

NOTE: For emergency assistance call 466-3032 or 466-6664

Traffic citations and parking charges are the responsibility of the operator.

SEE DISPATCHER COMMENTS ON REVERSE

709417

FIELD ACTIVITY REPORT

Site No. 709417

Date: 6/8/89 Time: 10 :00 (AM) PM Weather: rain (clear) cloudy snow

County: Richland Temperature: 80 °F

Site Name: Bowsher/London Motor Freight

Location: 815 N. Bowsher Ave.
Ontario, Ohio 44906

Personnel:

BUSTR : Kelly Gill

Other: (see attached list)

Purpose of Visit: Check for soil and surface water contamination around 2-diesel U.S.T.'s.

Findings/ Actions: Soil high contaminated around top of tanks. Vent pipes not in compliance. Weigh Scale leaving for trucks filled w. water w/product on water. Slight sheen on water running from drainage tile running along east side of property. Two Recovery Not Kept very well. Bridge/London hired contractor (Plemick) to pull tanks. Were pulling tanks when I left at 2:00 p.m.

Recommendations: Site investigation with possible site assessment after receipt report and review of water sample data which will be sent to us from two (2) water wells by Health Dept.

Prepared by: Kelly Gill

Date: 6/9/89

709417

Ruder/Loudon Motor Freight
Ontario, Ohio

Picture # Camera #54

#7 Several U.S.T.'s ; shooting east at G.M. scale house are shown ; product in drums

#8 Close-up of contaminated soil above U.S.T.'s

#9 Shooting from Tractor Dealership property (S.E.) at G.M. and Ruder/Loudon

#10 Shooting N.W. at Tractor Dealership

#11 Shooting directly down at ground at Mr. Rex Beer's tile right of way ~~[illegible]~~ run south through his property. Sheen on water

#12 Shooting south at Mr. Rex Beers residence. Water well located in small green house at right of picture. Drainage tile (that starts at Ruder/Loudon) run south through swale through Mr. Beer property.

#13 Shooting south at drainage gulch on S.E. edge of Ruder/Loudon property

709417

Bundle/Loudon Motor Fuels
Ontario, Clinton

#14 Note vent piper above tank is too short and No angle joint pipe or elbow pipe to prevent rain from entering

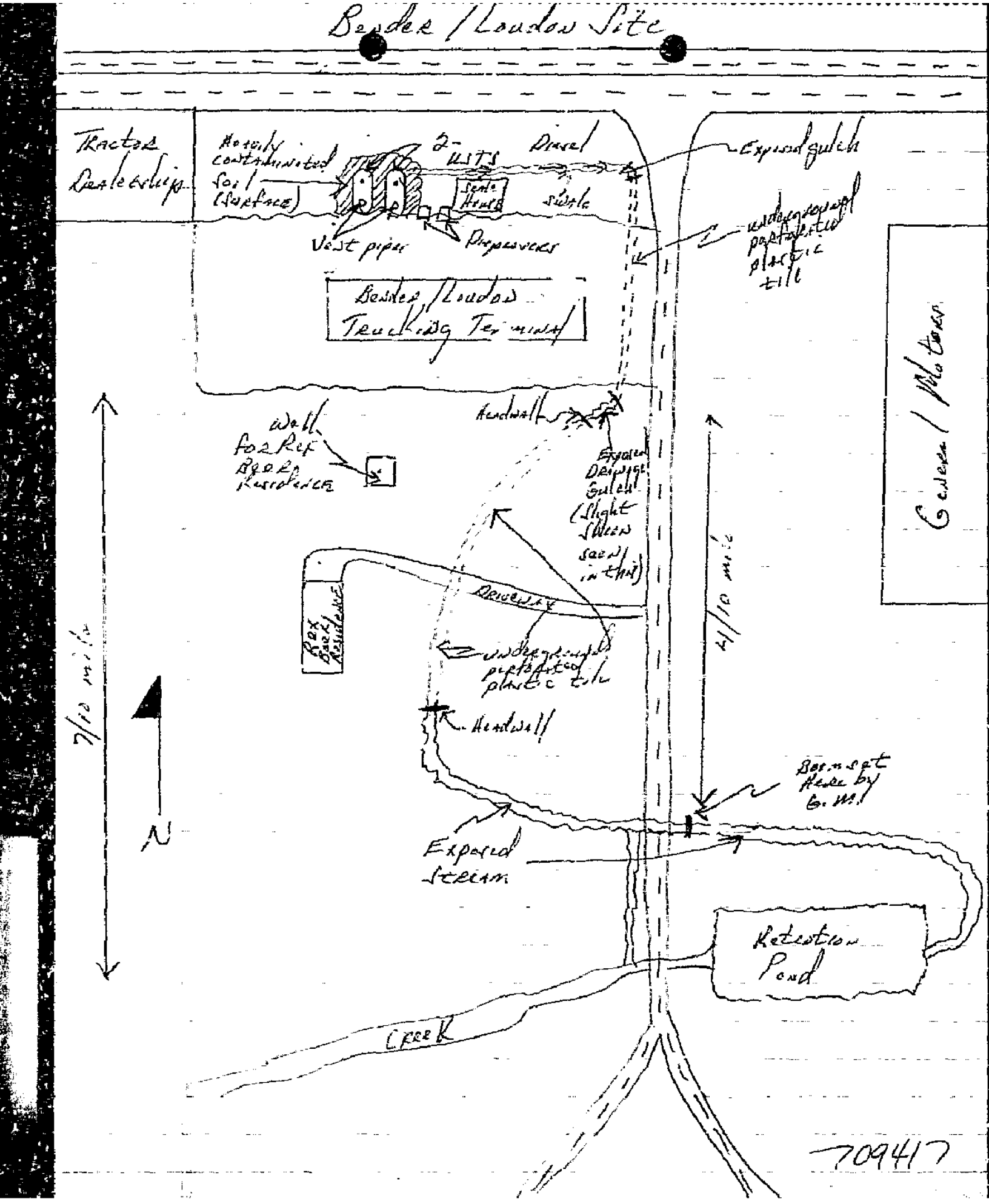
#15 Shot of backhoe digging up tank

709417

BENDER/LOUDON - MANSFIELD, OH 6 JAN 89

Joe Evans	Richland Co. Health Dept.	(419) 524-2332
Wayman Musick	Musick Maint INC	419 529 3604
Lt. Steve Shirley	Springfield Twp. F.D.	529-4116
MIKE KNOWLAK	CPC MANSFIELD - GM.	(419) 755-5118
ED FISH	" "	419-755-5351
JEFF WANDER	OEPA	(614)-352-8961
Capt. Ron Henry	Springfield Twp F.D.	(419) 525-4416
Bill G.	SFM1/BK-71	
Rick Howsley	Director of Mans. Central Area Office	

709417


Border / Loudon Site
Tractor Dealership
Heavily contaminated soil (surface)
2 USTs
Diesel
Expired gulch
Septic Tanks
Swale
Vent pipes
Dispensers
underground perforated plastic tile
Border / Loudon Trucking Terminal
Gulch / Mobile Home
Headwall
Well for Ref Road Residence
Expired Drainage Gulch (Slight Green seen in this)
Driveway
Ref Road Residence
underground perforated plastic tile
Headwall
1/10 mile
1/10 mile
N
Berm set here by G. W.!
Expired Stream
Retention Pond
Creek
70947

Ohio Department of Commerce

Richard F. Celeste, Governor

Linda K. Page, Director

Division of State Fire Marshal • Bureau of Underground Storage Tank Regulations
7510 E. Main St., P.O. Box 525 • Reynoldsburg, OH 43068-3395 • (614) 752-8200

June 13, 1989

Mr. Richard Housley
Director of Maintenance
Bender & Loudon Motor Freight, Inc.
1100 Jenkins Boulevard
Akron, Ohio 44306

RE: Bender & Loudon Motor Freight Terminal
815 North Beer Road
Ontario, Ohio
Richland County
Incident #709417-00

Dear Mr. Housley:

The Ohio Revised Code, Section 3737.88, gives the State Fire Marshal the responsibility for implementation of the underground storage tank program and corrective action for releases from underground tank systems. This office has been notified of a confirmed release from an underground storage tank system at the aforementioned facility.

As the underground storage tank owner/operator, you are subject to state and federal regulations governing the investigation and clean-up of releases from underground storage tank (UST) systems. The Initial Corrective Actions, as listed in the Ohio Administrative Code(OAC) 1301:7-7-36 (C)(2), include: stopping any further release from the UST system; mitigating all fire, explosion, and safety hazards; and the removal of all visibly contaminated soil and any associated groundwater from the excavation zone. In addition, you must conduct an investigation to determine the possible presence of free product and initiate removal of any free product as soon as practicable. Once these activities have been conducted, a report shall be submitted to the State Fire Marshal within twenty (20) days of the discovery or confirmation of the release. In addition to the aforementioned activities, a site investigation shall be performed which includes all of the elements as listed in OAC 1301:7-7-36 (C)(3) and (4).

If residual contamination remains following Initial Corrective Actions and the Site Investigation the owner/operator will be required to perform a Site Assessment in accordance with OAC 1301:7-7-36 (E). The Site Assessment will define the vertical and horizontal extent of soil and groundwater contamination on site and off site. In addition, a Corrective Action Plan would then be required to be prepared by the owner/operator which describes in detail how the soil and groundwater will be cleaned up. Other activities not specifically described herein may be required by the State Fire Marshal.

Enclosed is a copy of the "Corrective Action Guidance for Petroleum Releases" along with OAC 1301:7-7-36 and portions of 1301:7-7-28. These have been provided to assist underground storage tank owners/operators in conducting the corrective action activities required by the State Fire Marshal. Please take special note

of the deadline requirements for compliance with your responsibilities as specified in OAC 1301:7-7-36. The Initial Corrective Action and Site Investigation reports are required to be submitted to the State Fire Marshal within twenty (20) days of the discovery of the release. A Free Product Removal report (see OAC 1301:7-7-36 (D)) must be submitted within thirty (30) days of the discovery of the release The deadline for the Site Assessment and Corrective Action Plan will be determined by the State Fire Marshal.

When soil and groundwater samples are to be collected and analyzed pursuant to OAC 1301:7-7-36 certain protocols are to be followed. These protocols include those described in the enclosed "State Fire Marshal Corrective Action Sampling Guidelines". At a minimum these guidelines must be followed in order for sample results to be considered valid.

To assist our office in expediting a review of your correspondence please reference the incident number (709417-00) and place it in the upper right hand corner of your correspondence. Thank you for your cooperation and, if you have any questions regarding this matter, please call us at (614) 752-8200.

Sincerely,

Kelly Gill
Site Coordinator
Bureau of Underground
Storage Tank Regulations

KG:pm
Enclosures

cc: file
Joe Evans, Richland County, Health Department
Captain Ron Henry, Springfield Twp. Fire Department
Michael Knoblock, Env. Mgr., General Motors Corp.
Jeff Wander, OEPA, OCA, NWDO

OHIO DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES
1571 Perry Street
P.O. Box 2568
Columbus, Ohio 43266-0063

VOC Sample Submission Report

Laboratory Name: Ohio Dept. of Health
Certification Number: (47) 1 2 6 4 5 (51)
Sample Number: (52) CT 2883 (61)
Analyst: E. Stafford
Date Received: 6-9-89 Date Reported: (27) Month 06 Day 14 Year 89 (32)

Sample Identification

PWS ID: (1) [ ] (7)
Water Supply Name: Dunbar/Lyndon Water Right (36)
Address: 615 N Back Rd (41)
City & Zip: Cygnet, Ohio 43413
County: Wood Phone:
Sample Date: Month 06 Day 08 Year 89
Time (Use Military Time): Hour 14 Minute 10 (43) (46)
Sample Collected By: Kelly Gill
Sample/Well Location: #1 Well, Sample from sample port, below Top of tanks

Additional Information—Analyst Remarks—Non Routine Analytical Requests

Field Treatment: ☒ Iced ☐ NaOH ☐ HNO_3
☐ $Na_2O_3S_2$ ☐ $CuSO_4 + H_3PO_4$ ☐ H_2SO_4 ☐ Other (Explain)

☐ Sample Type (Raw-R Plant-P Dist-D)		☐ Chloroethane, Total ug/l	2216.
☐ Sample Type (Check-C, Special-S)		☐ Pentachloroethane, Total ug/l	2415.
☐ Well Identification		☐ sec-Dichloropropane, Total ug/l	2380.
☐ Chloroform, Total ug/l	2941.	☐ Naphthalene, Total ug/l	2248.
☐ Bromoform, Total ug/l	2942.	☐ 1,1-Dichloropropane, Total ug/l	2395.
☐ Bromodichloromethane, Total ug/l	2943.	☐ p-Isopropyltoluene, Total ug/l	2465
☐ Dibromochloromethane, Total ug/l	2944.	☐ Methlene Chloride, Total ug/l	2964.
☐ Trichloroethylene, Total ug/l	2984	☐ Dichlorofluoromethane, Total ug/l	2218.
☒ Benzene, Total ug/l	2990 None detected	☐ Toluene, Total ug/l	2991 None detected
☐ Carbon Tetrachloride, Total ug/l	2982.	☐ Chlorobenzene, Total ug/l	2989.
☐ 1,2 Dichloroethane, Total ug/l	2980.	☐ Ethylbenzene, Total ug/l	2992.
☐ Vinyl Chloride, Total ug/l	2976.	☐ Bromobenzene, Total ug/l	2993.
☐ 1,1 Dichloroethylene, Total ug/l	2977.	☐ Isopropylbenzene, Total ug/l	2994.
☐ 1,1,1-Trichloroethane, Total ug/l	2981.	☐ m-Xylene, Total ug/l	2995. None detected
☐ p-Dichlorobenzene, Total ug/l	2969	☐ o-Xylene, Total ug/l	2996.
☐ Dichlorodibromomethane, Total ug/l	2975.	☐ m + p-Xylene, Total ug/l	2997 None detected
☐ 1,1 Dichloroethane, Total ug/l	2978.	☐ n-Propylbenzene, Total ug/l	2998.
☐ trans-1,2 Dichloroethylene, Total ug/l	2979	☐ o-Chlorotoluene, Total ug/l	2965.
☐ 1,2 Dichloropropane, Total ug/l	2983.	☐ p-Chlorotoluene, Total ug/l	2966.
☐ 1,1,2-Trichloroethane, Total ug/l	2935.	☐ m-Dichlorobenzene, Total ug/l	2967.
☐ 1,1,1,2 Tetrachloroethane, Total ug/l	2980.	☐ o-Dichlorobenzene, Total ug/l	2968.
☐ 1,1,2,2-Tetrachloroethane, Total ug/l	2988.	☐ Hexachlorobutadiene, Total ug/l	2246.
☐ 1,2-Dibromoethane, Total ug/l	2232.	☐ p-Cymene, Total ug/l	2030.
☐ 1,2-Dibromo-3-Chloropropane, Total ug/l	2931.	☐ tert-Butylbenzene, Total ug/l	2426.
☐ 1,1 Dichloropropene, Total ug/l	2410.	☐ sec-Butylbenzene, Total ug/l	2428.
☐ 2-2 Dichloropropane, Total ug/l	2416.	☐ 1,2,3,-Trichlorobenzene, Total ug/l	2420.
☐ Dichlorodifluoromethane, Total ug/l	2212.	☐ 1,2,4-Trimethylbenzene, Total ug/l	2418.
☐ Dibromomethane, Total ug/l	2408.	☐ n-Butylbenzene, Total ug/l	2422.
☐ 1,3-Dichloropropane, Total ug/l	2412.	☐ bis-2-Chloroisopropyl ether, Total ug/l	2244.
☐ Chloromethane, Total ug/l	2210.	☐ 1,3,5-Trimethylbenzene, Total ug/l	2424.
☐ Bromomethane, Total ug/l	2214.	☐ 1,2,4-Trichlorobenzene, Total ug/l	2378.
☐ Bromochloromethane, Total ug/l	2430.	☐ Acid Extractable Organics, Total ug/l	2435.
☐ 1,2,3-Trichloropropane, Total ug/l	2414.	☐ Base-Neutral Extract, Organics, Total ug/l	2445.
☐ cis-1,2,-Dichloroethylene, Total ug/l	2972.	☒ Total Petroleum Hydrocarbons	
☐ Tetrachloroethylene, Total ug/l	2987.	☐ Gas-liquid Chromatogram of oil in	
☐		☐ sample # CT-2883 resembles that of	
☐		☐ a fuel oil and/or diesel fuel	
☐		☐ Approx concentration = 2.5% (w/w) *	

Distribution: (1-3) Ohio EPA, Division of Public Water Supply (4) Owner or Purveyor of Water Supply (5) Laboratory File
HEA 2521 (Rev. 5/88)

* Based on a laboratory standard of fuel oil
6/14/89 EES

OHIO DEPARTMENT OF HEALTH
DIVISION OF LABORATORIES
1571 Perry Street
P.O. Box 2568
Columbus, Ohio 43266-0068

VOC Sample Submission Report

Laboratory Name: Ohio Dept. of Health
Certification Number: (47) 1 2 3 4 5 (51)
Sample Number: (52) C-H 2 8 8 4 (61)
Analyst: E. Stafford
Date Received: 6-9-89 Date Reported: (27) Month 06 Day 14 Year 89 (32)

Sample Identification

PWS ID: (1) 7 0 9 4 1 7 1 (7)
Water Supply Name: Rentlee Youth Lodge
Address: 815 N. Rock Rd Fremont (36)
City & Zip: Castalia, Ohio 44824 (41)
County: Erie Phone:
Sample Date: Month 0 6 Day 0 8 Year 8 9 (43)
Time (Use Military Time): Hour 1 4 Minute 0 0 (46)
Sample Collected By: Kelly Goff
Sample/Well Location: #2 Soil Sample from drainage ditch at S.W. corner of site property

Additional Information—Analyst Remarks—Non Routine Analytical Requests

Field Treatment: ☐ Iced ☐ NaOH ☐ HNO_3
☐ $Na_2O_3S_2$ ☐ $CuSO_4 + H_3PO_4$ ☐ H_2SO_4 ☐ Other (Explain)

☐ Sample Type (Raw-R, Plant-P, Dist-D)		☐ Chloroethane, Total ug/l	2216.
☐ Sample Type (Check-C, Special-S)		☐ Pentachloroethane, Total ug/l	2415.
☐ Well Identification		sec-Dichloropropane, Total ug/l	2380.
☐ Chloroform, Total ug/l	2941.	☐ Naphthalene, Total ug/l	2246.
☐ Bromoform, Total ug/l	2942.	☐ 1,1-Dichloropropane, Total ug/l	2395.
☐ Bromodichloromethane, Total ug/l	2943.	☐ p-Isopropyltoluene, Total ug/l	2465.
☐ Dibromochloromethane, Total ug/l	2944.	☐ Methlene Chloride, Total ug/l	2964.
☐ Trichloroethylene, Total ug/l	2984	☐ Trichlorofluoromethane, Total ug/l	2218.
☑ Benzene, Total ug/l	2990. None detected	☑ Toluene, Total ug/l	2991. None detected
☐ Carbon Tetrachloride, Total ug/l	2982.	☐ Chlorobenzene, Total ug/l	2989.
☐ 1,2 Dichloroethane, Total ug/l	2980.	☐ Ethylbenzene, Total ug/l	2992.
☐ Vinyl Chloride, Total ug/l	2975.	☐ Bromobenzene, Total ug/l	2993.
☐ 1,1 Dichloroethylene, Total ug/l	2977.	☐ Isopropylbenzene, Total ug/l	2994.
☐ 1,1,1-Trichloroethane, Total ug/l	2981.	☑ m-Xylene, Total ug/l	2995. None detected
☐ p-Dichlorobenzene, Total ug/l	2969.	☐ Styrene, Total ug/l	2996.
☐ Dichlorodomethane, Total ug/l	2975.	☑ o + p-Xylene, Total ug/l	2997. None detected
☐ 1,1 Dichloroethane, Total ug/l	2978.	☐ n-Propylbenzene, Total ug/l	2998.
☐ trans-1,2-Dichloroethylene, Total ug/l	2979	☐ o-Chlorotoluene, Total ug/l	2965.
☐ 1,2 Dichloropropane, Total ug/l	2983.	☐ p-Chlorotoluene, Total ug/l	2966.
☐ 1,1,2-Trichloroethane, Total ug/l	2985.	☐ m-Dichlorobenzene, Total ug/l	2967.
☐ 1,1,1,2 Tetrachloroethane, Total ug/l	2986.	☐ o-Dichlorobenzene, Total ug/l	2968.
☐ 1,1,2,2-Tetrachloroethane, Total ug/l	2988	☐ Hexachlorobutadiene, Total ug/l	2246.
☐ 1,2-Dibromoethane, Total ug/l	2232.	☐ p-Cymene, Total ug/l	2030.
☐ 1,2-Dibromo-3-Chloropropane, Total ug/l	2951	☐ tert-Butylbenzene, Total ug/l	2426.
☐ 1,1 Dichloropropene, Total ug/l	2418.	☐ sec-Butylbenzene, Total ug/l	2428
☐ 2-2 Dichloropropane, Total ug/l	2416.	☐ 1,2,3,-Trichlorobenzene, Total ug/l	2420
☐ Dichlorodifluoromethane, Total ug/l	2212.	☐ 1,2,4-Trimethylbenzene, Total ug/l	2418.
☐ Dibromomethane, Total ug/l	2408	☐ n-Butylbenzene, Total ug/l	2422.
☐ 1,3-Dichloropropane, Total ug/l	2412.	☐ bis 2-Chloroisopropyl ether, Total ug/l	2244.
☐ Chloromethane, Total ug/l	2210.	☐ 1,3,5-Trimethylbenzene, Total ug/l	2424.
☐ Bromomethane, Total ug/l	2214	☐ 1,2,4-Trichlorobenzene, Total ug/l	2378.
☐ Bromochloromethane, Total ug/l	2430.	☐ Acid Extractable Organics, Total ug/l	2435.
☐ 1,2,3-Trichloropropane, Total ug/l	2414.	☐ Base-Neutral Extract, Organics, Total ug/l	2445.
☐ cis-1,2-Dichloroethylene, Total ug/l	2972.	☑ Total Petroleum Hydrocarbons	
☐ Tetrachloroethylene, Total ug/l	2987.	☐ Gas-liquid chromatogram of oil	
☐		☐ in sample #CT-2884 resembles that	
☐		☐ of a fuel oil and/or diesel fuel	
☐		☑ Approx. concentration	150 ug/g *

Distribution: (1-3) Ohio EPA, Division of Public Water Supply (4) Owner or Purveyor Water Supply (5) Laboratory File
HEA 2521 (Rev. 5/88)

* Based on a laboratory standard of fuel oil
6/14/89 DES

Bender & Loudon Motor Freight, Inc.
1100 Jenkins Blvd.
Akron, Ohio 44306
(216) 773-8921

July 5, 1989

Bureau of Underground Storage Tank Regulations
attn: Kelly Gill
7510 E. Main Street
Reynoldsburg OH 43068-3395

Ref: Bender & Loudon Motor Freight, Inc.
815 N. Beer Rd
Ontario Ohio Richland County
Incident # 709417-00

Mr. Gill:

Please be advised per our phone conversation of this morning. We are making every effort to have a completed report to you A.S.A.P.

In order to file a completed report to you with a ground water sample we are requesting a fourteen day extension.

Steps taken towards correcting the problem to date are:

A. Removial of tanks
B. Fuel Lines
C. Fuel island concret
D. Diging out contaminated soil and stock piling on visqueen and covered by same.
E. Sending samples out for testing.

I have not received a copy today. But I believe Musick's Service have some.

Sincerely,

Rich Housley
Director of Maintance.

RECEIVED
JUL 07 1989
STATE FIRE MARSHAL
UNDERGROUND TANK PROGRAM

cc: file

TELEPHONE MEMORANDUM

REPORT #: 17019411731 DATE: 1/16/90
TIME: 1140

CALL TO [ ] FROM [√]

NAME: Bob Bennett TITLE: PHONE (216) 773-6613
AGENCY/COMPANY: B+L Realty RELATION TO SITE c/o
ADDRESS: CITY: ST: ZIP:
SUBJECT: Reuter and London

NOTES & SUMMARY

TALKED WITH BOB:
JUNE 1989 TANKS REMOVED

MOBIL IS GOING TO COME IN SOIL BORINGS AND DETERMINE FULL EXTENT OF CONTAMINATION AND BOUNDS GOING TO BE A' BEYOND EVALUATION BOUNDARY.

WANTS TO CLEAN UP SITE, SO THAT PROPERTY CAN BE SOLD.

RUSTR STAFF MEMBER: CONTINUED ON BACK: _____ PAGES ATTACHED _____

TELEPHONE MEMORANDUM

REPORT #: 1 7 0 9 5 1 1 7 1 _ _ _ _ _ _ _ _ _ _ DATE: 5/26/20

TIME: 3:15

CALL TO [X] FROM [ ]

NAME: Pete Bagley TITLE: Company Officer/ PHONE (310) 777-8221

AGENCY/COMPANY: 11 RELATION TO SITE

ADDRESS: CITY: ST: ZIP:

SUBJECT:

NOTES & SUMMARY

- 11/2 Bagley said Bugler/Loudon et al bankruptcy filed Chapter 7
- Bankruptcy Trustee: Mark Gaetz (Trustee of Estate of BJL) (818) 376-3000
- Bankruptcy Attorney: Mark Mayhew Dewey & McDowell (310) 535-5711
- I said I would talk to our in house atty A. Bp about matter and get back with him

BUSTR STAFF MEMBER: K.G.H CONTINUED ON BACK: PAGES ATTACHED

SITE LISTING UPDATE FORM — UPDATE.001 REV 8/89

EXISTING INCIDENT #: 1 2 0 9 4 L 7 1 - 0 0 1 - 2 C S 1 F

FACILITY NAME: Rondo-Loudon Motor Freight — NEW FACILITY INFO? ___ YES ✓ NO (Update on back)

— [1] REASON FOR LISTING UPDATE

___ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
✓ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
___ [9] Other:

— [2] NEW SITE LISTING DATA

INCIDENT #: 1 2 0 9 4 L 7 1 - 0 0 1 - 2 C S 1 F
(REPORT NUMBER - FAC TRKGN - SPRC)

EMERGENCY RESPONSE: ✓ YES ___ NO — BY: ✓ FN (K.G.H.) ___ OEPA ___ USEPA

STATUS: ___ RPT ___ SUS ___ DIS ✓ CON ___ ICA ___ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* ✓ 2 ___ 3 ___ 4 ___ 5 — LTF ELIGIBILITY: ✓ YES (1) ___ NO (2)

CLASSIFICATION: ___ A ___ B ___ C ✓ D — WORK ORDER: _____

SITE COORDINATOR: C. Zepp — CONTRACTOR: _____

— * [3] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)
(First sentence - why is it a 1? Second sentence - who is doing what at this time)

— [4] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $100,000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement; amount: _____.

— [5] SITE MANAGEMENT REMARKS
(BUSTR actions needed/taken, reports expected, etc.)

— [6] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT
(For use by supervisor)

UPDATE SUBMITTED BY: K.G.H. — DATE: 8/9/90 — DATE: AUG 31 1990

APPROVED: Leffett — DATE: 8/10/90 — ENTRY: _____

TELEPHONE MEMORANDUM

REPORT #: 17101914117 DATE: 1/4/94

TIME: 3:30

CALL TO [√] FROM [ ]

NAME: JULIE KARRAZ TITLE: PHONE (419) 529-3606

AGENCY/COMPANY: BUCKEYE GASOLINE STATION INC RELATION TO SITE CONSULTANT

ADDRESS: CITY: MANSFIELD ST: OH ZIP: 44903

SUBJECT:

NOTES & SUMMARY

JULIE SAID:

FACILITY IS ABOUT TO BE SOLD.

BUCKEYE IS GOING TO START DOING SOME MORE WORK TO CLEAN UP SITE.

GOING TO INSTALL TANK EXCAVATION AND RESAMPLE

CONTAMINATED SOIL ON SITE.

OWNS PROPERTY:

BOB BENDER (216) 773-8921

BANDL PERCITY

1100 SCHLING BLVD.

BEAVER OH 44036

BOB BENDER CONTACT FOR BUCKEYE

WATER SAMPLE WAS BEEN TAKEN.

BUSTR STAFF MEMBER: CONTINUED ON BACK: PAGES ATTACHED

SITE LISTING UPDATE FORM

EXISTING INCIDENT #: 7|0|9|4|1|7|_| - |_|_| - |_|_|_|_| UPDATE.001 REV 8/89

FACILITY NAME: Bowden / Loaded Mutt Grill NEW FACILITY INFO? ___ YES _✓_ NO (Update on back)

[1] REASON FOR LISTING UPDATE

___ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
___ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
_✓_ [9] Other: Follow

[2] NEW SITE LISTING DATA

INCIDENT #: |_|_|_|_|_|_|_| - |_|_|_| - |_|_|_|_|
REPORT NUMBER FAC TRKG# SPRC

ENERGENCY RESPONSE: ___ YES ___ NO BY: ___ FM (_____) ___ OEPA ___ USEPA

STATUS: ___ RPT ___ SUS ___ DIS ___ CON _✓_ ICA ___ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* _✓_ 2 ___ 3 ___ 4 ___ 5

CLASSIFICATION: ___ A ___ B ___ C _✓_ O LTF ELIGIBILITY: ___ YES (1) ___ NO (2)

SITE COORDINATOR: _____ CONTRACTOR: _____ WORK ORDER: _____

* [3] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)

(First sentence - why is it a 1? Second sentence - who is doing what at this time)

[4] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $10',000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement; amount: _____.

[5] SITE MANAGEMENT REMARKS

(BUSTR actions needed/taken, reports expected, etc.)

Report to us way from Mussels Service Station
Point.

[6] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT

(For use by supervisor)

UPDATE SUBMITTED BY: CCT DATE: 1/4/91

APPROVED: [signature] DATE: 1/4/91 ENTRY: Stover DATE: JAN 07 1991

Ohio Department of Commerce

Richard F. Celeste, Governor

Division of State Fire Marshal • Bureau of Underground Storage Tank Regulations
7510 E. Main St., P.O. Box 525 • Reynoldsburg, OH 43068-3395 • (614) 752-8200

Nappy Hetzler, Director

January 7, 1991

Bob Bender
Band L. Reality
1100 Jenkins Blvd.
Akron, Ohio 44306

RE: Bender and Louden Motor Freight Terminal
815 North Bear Road
Ontario, Ohio
Richland County
Incident #709417-00

Dear Mr. Bender:

On June 7, 1989, a confirmed release from the underground storage tank system located at the aforementioned facility was reported to the State Fire Marshal.

On June 13, 1989, you were sent a letter and attachments which described your responsibilities for complying with the Ohio Administrative Code (OAC) §1301:7-7-36. As the underground storage tank owner/operator or a legal representative thereof, you are responsible for the investigation and clean-up of releases from underground petroleum storage tank (UST) systems. To date, no response has been received by the State Fire Marshal. You must prepare and submit to the Bureau of Underground Storage Tank Regulations a report which meets the requirements of OAC §1301:7-7-36(C) detailing initial corrective actions and site investigation activities.

To assist you in understanding your responsibilities under the OAC, I have enclosed appropriate statutes and rules related to petroleum UST suspected release investigations and corrective actions. Please take special note of the deadline requirements. The Initial Corrective Action and Site Investigation reports are required to be submitted to the State Fire Marshal within twen y (20) days of the discovery of the release. A Free Product Removal report [see OAC §1301:7-7-36(D)] must be submitted within thirty (30) days of the discovery of the release.

When soil and groundwater samples are to be collected and analyzed pursuant to OAC §1301:7-7-36 certain protocols are to be followed. These protocols include those described in the enclosed "State Fire Marshal Corrective Action Sampling Guidelines". At a minimum, these guidelines must be followed in order for sample results to be considered valid.

To assist our office in expediting a review of your correspondence please reference the incident number (709417-00) and place it in the right hand corner of all your correspondence. Thank you for your cooperation, and if you have any questions regarding this matter, please call us at (614) 752-7938.

Sincerely,

Charles E. Zepp
Site Coordinator
Bureau of Underground
Storage Tank Regulations

CEZ:kkm

Enclosure

cc: [redacted]

POSTED
1/7/91

Musick's Service Station Maintenance, Inc.

Rt. 12 - 324 Lewis Road • Mansfield, Ohio 44903
419-529-3606 • FAX: 419-529-8010

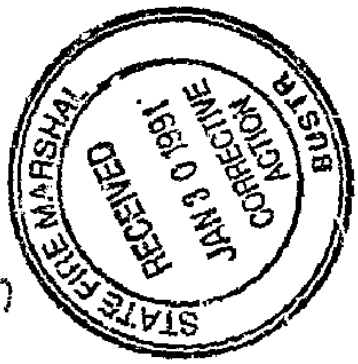
Date: 1/30/91

Company: BUSTR

Attention: Charlie Copp

Fax #: 614-752-7942

Reference: Binder & Louden



# of pages to follow: 20 including cover

If you do not receive the number of pages indicated above, or there is a question, feel free to call us at the above number.

Comments:

Signature: Julie Kubitz

709417

pump. Mr. Musick inspected site. Spoke with Rich & Mr. West about reporting if they thought they spilled more than 25 gallons, they should report it. Dispatched a crew to site to cut a trench between tanks and pump off product. Pumped out water and skimmed fuel. Brought back total of 275 gallons for disposal at shop. Dug hole & recovery hole right between tanks, 3' deep.

5-27-89: Crew returned to site and skimmed off fuel and water from tank hole. Brought back 198 gallons for disposal.

5-30-89 Mr. Musick went to location to check. Spoke to manager and he said they will pump the tanks down and wants us to give them a bid for removal. Sent a crew over to skim off the fuel from the tank hole. While there, they also replaced the check valve under the west pump (had to remove the pump off the island to change the valve). Brought back 15 gallons contaminated water for disposal.

6-02-89: Mr. Musick went to site and checked. Hole needs pumped again.

6-03-89: (Saturday) Technician went to site and skimmed top of tank hole off. Left (1) 55 gallon full drum at site.

6-05-89: Technician went to site and changed the pump hoses from one pump that was no longer in use to the other pump currently in use. Transfered balance of product from one tank (no longer in use) to the other tank currently in use. Skimmed fuel off of water in the tank hole. Placed contaminated water into four (4) drums; brought back to shop (Total 220 gallons).

6-8-89 Evacuated all associated groundwater and fuel from the two recovery holes that were put in on 5-26-89. Then we removed the tanks. See removal for details. More water was removed from the tank excavation. Tank #1, was not leaking. This tank had previously been armourcoated. I have no details regarding this. Tank was plugged near the bottom approximately 7 feet from the north end of the tank. Then armour coated. Tanks were installed approximately 1965 and were made of steel construction. Kelly Gill, State Fire Official, suggested installed an adsorbant boom at the creek to adsorb any fuel that may be traveling in that direction. Went to K & D and picked up the booms. Delivered drums to the site. 6-9-89 Evacuated more water from the excavation. Checked soils, cleaned out bottom of the hole clear down to the concrete pad and exposed. Piled dirt on and covered with visqueen. No visual contamination at this point. Per request of Kelly Gill, State Fire Marshal dug a hole 15' deep, approximately 25' east of the excavation to check for water table. Did not hit water at 15'. Checked creek at boom's, found nothing on the water. Dug area at edge of the tank hole over to the concrete drive area. Fuel oil was coming out from under the concrete. Removed concrete island, excavated and removed product lines. Took samples from under product lines. Delivered samples to the laboratory for analysis. (Time under removal.) Made arrangements with Fishburn Services to pick up fuel and water that was evacuated from the tank hole excavation. Made sure he was approved by State and EPA. Hauled tank away for disposal. (Time under contract.) 6-10-89 Hauled second tank away for disposal. (Time under removal.) 6-12-89 Met with Fishburn Services, pumped off drums on site and what was brought into our facility and pumped fuel and water from scale pit. A total of 2500 gallons was removed. 50 gallons was product that was hand pumped from the bottom of the tanks. Approximately 15 gallons was fuel. 6-13-89 Picked up two tanks and drums. Checked for water sample at east end of tank hole, could not get one. Water table is too low. Set barricades. Skimmed product from tank hole. Recovered 100 gallons of water, 20 gallons of fuel. Disposed of at Musick's Service STation Maintenance. Then was picked up by Fishburn services. 6-16-89 Bill West called, said Fire Dept was on site. Wind has blown covering from the soil pile. Rain washing it away. Needs contained. Dispatched someone immediately. Skimmed 10 gallons of product and 90 gallons of water. Covered dirt again. Left drums on site. 6-20-89 Discuss soil removal with Bill West, explained proper procedure. Asked for an incident number. 6-17-89 Filled out paperwork. Called Bill West, Bender and Loudon, he said to send removal bill directly to Richard Housley, Main Office, Akron. I asked Bill if he received an offical notification yet from the state with an incident number and he said no. He will call me just as soon as he received it so we can get started on the report. Told him to be sure to put all notes in writing. 6-27-89 Called and requested an incident number again. Richard Housley did have on file. Will send me copies ASAP. #709417-00, with 20 and 30 day notifications.

JAN-30-91 WED 12:56 MUSICK'S

6-8-89 OBTAINED PERMIT FROM THE SPRINGFIELD TWONSHIP FIRE DEPARTMENT. PERMIT # 89-27 ISSUED BY RON HENRY. RON HENRY, SPRINGFIELD TOWNSHIP FIRE DEPARTMENT, JEFFREY WANDER, OHIO EPA, AND KELLY GILL, STATE FIRE MARSHAL'S OFFICE, REPRESENTATIVES OF BENDER/LOUDON RICHARD HOUSLEY, DIRECTOR OF MAINTENANCE, AND BILL WEST, MANAGER. ALL WERE ON SITE. EXCAVATED IN DIRT AREA TO TOP OF TANKS. DRAINED AND FLUSHED PIPING INTO TANKS. OWNER HAD THEIR TRANSPORT TRUCK TO COME IN AND REMOVE THE PRODUCT FROM THE TANKS. A TOTAL OF 25 GALLONS WAS LEFT IN EACH TANK. REMOVED WITH A HAND PUMP AND DRUMMED. 6-9-89 OBTAINED SOIL SAMPLES. TANK EXCAVATION #1. SAMPLE WAS TAKEN FROM EACH END OF THE TANK. CONCRETE SLAB WAS IN BOTTOM OF TANK HOLE. SO SAMPLES WERE TAKEN JUST OUTSIDE SLAB AREA, AT THE BOTTOM OF THE EXCAVATION, APPROXIMATELY 12' DEEP. TANK EXCAVATION #2. SAME CONDITIONS APPLY AS TANK #1. PRODUCT LINE: ONE SOIL SAMPLE WAS OBTAINED FROM THE PRODUCT LINE TRENCH APPROXIMATELY 4' NORTH OF THE ISLAND AND ONE SAMPLE WAS TAKEN FROM DIRECTLY UNDERNEATH THE SUCTION PUMPS. SOIL SAMPLES WERE TAKEN USING A TRIER SAMPLER AND PLACED IN APPROVED CONTAINERS SUPPLIED BY KELLY GILL, STATE FIRE MARSHAL'S OFFICE.

Summary

Rt. 12 - 324 Lewis Road
Mansfield, Ohio 44903
419-529-3606

DATE: 6-8-89

JOB LOCATION: Border & Eagle Motor Freight, Inc.
815 N. Lake Road
Mansfield, Ohio 44906

SIZES OF TANKS REMOVED	PRODUCT STORED	AMOUNT IN TANKS
#1 Tank #1	8000 gallon	0
#2		
#3		

DRY ICE USED	YES ✓	NO
TANK STENCILED	YES ✓	NO
FIRE DEPARTMENT CALLED	YES ✓	NO
PERMIT ACQUIRED	YES ✓	NO
PHOTOS TAKEN	YES ✓	NO

CONDITIONS

VISUAL SIGNS OF CONTAMINATION	YES ✓	NO
DISCOLORED SOIL FOUND	YES ✓	NO
FREE PRODUCT FOUND	YES ✓	NO

IF CONTAMINATION WAS FOUND THE FOLLOWING MUST BE COMPLETED!!!

NAME OF PERSONS NOTIFIED:

OWNER Richard K. Kerwin

FIRE DEPARTMENT RON HENRY, SPRINGFIELD TWP. 529 4416/5224571

EPA

CONSULTANT

OTHER

WAS CONTAMINATED SOILS PUT ON PLASTIC	YES ✓	NO
WAS ORIGINAL BACKFILL USED	YES	NO ✓
WHERE WAS TANK DISPOSED OF?	Crestline Kille	
WERE ABSORBANT PADS USED?	YES	NO ✓

STEPS TAKEN TO DISPOSE OF CONTAMINATION

A. To be determined by Samples

B.

C.

SIGNATURE OF FIRE OFFICIALS Ronald J. Henry

HUSICK'S FOREMAN Waymon Musick

CONDITION OF TANKS

Rt. 12 - 524 Lewis Road
Mansfield, Ohio 44903
419-529-3606

DATE: 6-8-89

JOB LOCATION: Barker & Scribner Motor Freight, Inc.
825 N. Bent Road
Mansfield, Ohio 44906

Mansfield, Ohio 44906

SIZES OF TANKS REMOVED	PRODUCT STORED	AMOUNT IN TANKS
#1 Tank #2	8000 gallon	0
#2		
#3		

DRY ICE USED	YES ✓	NO
TANK STENCILED	YES ✓	NO
FIRE DEPARTMENT CALLED	YES ✓	NO
PERMIT ACQUIRED	YES ✓	NO
PHOTOS TAKEN	YES ✓	NO

CONDITIONS

VISUAL SIGNS OF CONTAMINATION	YES ✓	NO
DISCOLORED SOIL FOUND	YES ✓	NO
FREE PRODUCT FOUND	YES ✓	NO

IF CONTAMINATION WAS FOUND THE FOLLOWING MUST BE COMPLETED!!!

NAME OF PERSONS NOTIFIED:

OWNER Richard L. Hively

FIRE DEPARTMENT HENRY, SPRINGFIELD TWP 529446/522457

EPA ✓

CONSULTANT

OTHER

WAS CONTAMINATED SOILS PUT ON PLASTIC	YES ✓	NO
WAS ORIGINAL BACKFILL USED	YES	NO ✓
WHERE WAS TANK DISPOSED OF?	Kirtland Recycling	
WERE ABSORBANT PADS USED?	YES	NO ✓

STEPS TAKEN TO DISPOSE OF CONTAMINATION.

A. to be determined by samples

B.

C.

SIGNATURE OF FIRE OFFICIALS Ronald A. Hively

MUSICK'S FOREMAN Wayman McCormick

CONDITION OF TANKS

booms. 6-30-89 Took down barricades and put up fencing because of safety factor. The tank hole is quite full of water. 7-6-89 Dug test hole for groundwater sample per instruction of Kelly Gill, State Fire Marshal. Dug down 18' waited for groundwater to come in overnight. None found. 7-7-89 Went back to the site, dug test hole deeper. Finally got a groundwater sample at 23' deep. 7-8-89 Prepare paperwork and deliver sample to laboratory. 7-22-89 Work on report. Job is still incomplete.

Taber

7-17-89 (This time was not picked up on invoice 89-1239). Re-secured fencing around open hole. Filled in test holes. 8-14-89 Stirred soil piles. Covered again. 8-15-89 Met with Richard Housley on site. Obtain site map necessary for reporting. Water was full of water. Obtained sample for analysis. Discuss getting background samples and went over what we feel is the next step regarding cleaning up the contamination. At this time we feel it is necessary to take out an additional 2' of soil off all sides of the tank hole and digging along side of the concrete pad in the bottom of the tank hole to obtain another soil sample. Hopefully we will not have to remove [illegible] concrete pad in the botton of the hole. Removing the concrete slab on top of the [illegible] the south side of the excavation, it appears that product is trapped under [illegible] and seeping through the side walls of the tank excavation. 8-14-89 Spoke to Craig Postel with Chem Tech consultants regarding land farming verses soil disposal. Took him to the site for inspection. 8-15-89 Made up exhibits of soil analysis and cover sheet for reporting. Tried to get in contact with Kelly Gill, State Fire Marshal's office, but he was not in and is to get in touch with me. 8-18-89 Prepare estimates, ballpark figures only, regarding land farming and soil disposal. Called in to Richard Housley.

Taber

8-22-89 Cultivate dirt to aerate. Discuss job with consultant.

MUSICK'S SERVICE STATION MAINTENANCE, INC.
Rt. 12 - 324 Lewis Road
Mansfield, Ohio 44903
419-529-3606

SUMMARY OF SOIL & WATER ANALYSIS

PHASE 1

BENDER & LOUDON MOTOR FREIGHT

815 N. BEER ROAD

MANSFIELD, OHIO 44906

Exhibit #1. 6-9-89 Bottom of tank excavation
12' deep at edge of concrete hold down pad

6/27/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7156
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12138 SAMPLE ID: #1 Bender-Loudon

Client: Musick's Service Station Maint

Lab #: 12138

Code	Parameter (Units)		
DW	All Units Reported as Dry Weight	25.6	pic.
Pbs	Lead, Total (mg/kg)	1.0	dk.
Cds	Cadmium, Total (mg/kg)	162.	
Ogs	Oil & Grease, Hydrocarbon (mg/kg)		
	Benzene (mg/kg)	<0.3	
	Toluene (mg/kg)	<0.3	
	Xylene (mg/kg)	<0.3	
	Ethylbenzene (mg/kg)	<0.3	

Client: Musick's Service Station Maint

Lab #: 12138

Code	Parameter (Units)
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bun - sen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.

ANALYSIS CERTIFIED BY Nancy Silby

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

Exhibit #2. 6-9-89 Soil sample from under product line.

6/24/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7157
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12136 SAMPLE ID: #2 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12136
Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	
Pbs	Lead, Total (mg/kg)	25.1 ok
Cds	Cadmium, Total (mg/kg)	1.20 ok
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	104. ok
	Benzene (mg/kg)	1.3
	Toluene (mg/kg)	0.32
	Xylene (mg/kg)	1.1
	Ethylbenzene (mg/kg)	1.7

no-ck.

Client: Musick's Service Station Maint

Lab #:		12136
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bun - sen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY Mary Ellen

LEXINGTON SCIENTIFIC LABORATORY
508 Blasman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

C 6b 1d-f

Exhibit #3. 7-10-89 EPTOX lead and cadmium from from soil that was removed from under the product line. Original sample refer to Exhibit #2.

August 4, 1989

Musick's Service Station Maint.
Julie Kabbaz
Rt. 12 324 Lewis Rd.
Mansfield, OH 44903

Project: P.O.#5619
Lab #12571

Sample I.D.: Bander/Loudon Tank Bottom

Date Received: 7/10/89

Parameter	Units	Result #12571
EP Tox Lead	mg/l	0.27
EP Tox Cadmium	mg/l	<0.06

Analysis Certified By Marcy Stli

LEXINGTON SCIENTIFIC LABORATORY
506 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

Exhibit #4. 6-9-89 Soil sample under the island that was removed.

6/27/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7158
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12139 SAMPLE ID: #3 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12139
Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	22.5 %
Pbs	Lead, Total (mg/kg)	0.9
Cds	Cadmium, Total (mg/kg)	121.
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	<0.3
	Benzene (mg/kg)	<0.3
	Toluene (mg/kg)	<0.3
	Xylene (mg/kg)	<0.3
	Ethylbenzene (mg/kg)	

Client: Musick's Service Station Maint

Lab #:		12139
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bunsen burner flame passed within 3 cm of the waste. The flame was then passed under the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY _____

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

Exhibit #5. 6-9-89 Soil sample from the tank excavation. Sides 4' up from the bottom.

6/24/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7159
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12137 SAMPLE ID: #4 Bender-Loudon

Client: Musick's Service Station Maint

Lab #: 12137

Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	19.6 ok
Pbs	Lead, Total (mg/kg)	0.8 ok
Cds	Cadmium, Total (mg/kg)	165 — not good
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	0.30
	Benzene (mg/kg)	<0.30
	Toluene (mg/kg)	<0.30 ok
	Xylene (mg/kg)	0.32
	Ethylbenzene (mg/kg)	

Client: Musick's Service Station Maint

Lab #: 12137

Code	Parameter (Units)
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bunsen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.

ANALYSIS CERTIFIED BY

LEXINGTON SCIENTIFIC LABORATORY
508 Blasman Ct.
Mansfield, Ohio 44905
PH: (419) 525-1644

Exhibit #6. 7-10-89 Groundwater sample taken from the groundwater at a depth of 23', down gradient of the tank hole towards Boer Road. Spot located by Kelly Gill.

August 4, 1989

Musick's Service Station Maint.
Julie Kabbaz
Rt. 12 324 Lewis Rd.
Mansfield, OH 44903

Project: P.O. #7217
Lab #12572

Sample I.D.: Bender/Loudon Water

Date Received: 7/10/89

Parameter	Units	Result #12572
Chloroform	ug/l	<2.
Bromodichloromethane	ug/l	<5.
Dibromochloromethane	ug/l	<5.
Bromoform	ug/l	<5.
Bromomethane	ug/l	<2.
Chloroethane	ug/l	<4.
Methylene Chloride	ug/l	<3.
Trichlorofluoromethane	ug/l	<2.
1,1-Dichloroethene	ug/l	<3.
Chloromethane	ug/l	<2.
1,1-Dichloroethane	ug/l	<2.
Trans-1,2-Dichloroethene	ug/l	<2.
1,2-Dichloroethane	ug/l	<2.
1,1,1-Trichloroethane	ug/l	<2.
Carbon Tetrachloride	ug/l	<2.
1,2-Dichloropropane	ug/l	<2.
Trans-1,3-Dichloropropene	ug/l	<2.
Trichloroethene	ug/l	<2.
cis-1,3-Dichloropropene	ug/l	<2.
1,1,2-Trichloroethane	ug/l	<5.
2-Chloroethyl Vinyl Ether	ug/l	<2.
1,1,2,2-Tetrachlorethane	ug/l	<5.
Tetrachloroethene	ug/l	<2.
Vinyl Chloride	ug/l	8.0
Benzene	ug/l	<2.
Toluene	ug/l	<2.
Chlorobenzene	ug/l	<2.
Ethylbenzene	ug/l	<2.
1,2-Dichlorobenzene	ug/l	<2.
1,3-Dichlorobenzene	ug/l	<2.
1,4-Dichlorobenzene	ug/l	<2.
Xylene	ug/l	<2.

Analysis Certified By Mary Ellen

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH (419) 525-1644

Exhibit #8. Analysis of groundwater from tank hole.

9/18/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: P.O. #7832 Wastewater Analysis
Date sample received: 8/11/89

Lab # 13176 Sample ID: Bender-Loudon Water

Client: Musick's Service Station Maint

Lab #:		13176
Code	Parameter (Units)	
Ogh	Oil & Grease, Hydrocarbon (mg/l)	1.3
Flp	Flash Point (F)	>180.

35

ANALYSIS CERTIFIED BY Mary Stahl

LEXINGTON SCIENTIFIC LABORATORY
308 Bixman Ct.
Mansfield, Ohio 44903
PH: (419) 525-1844

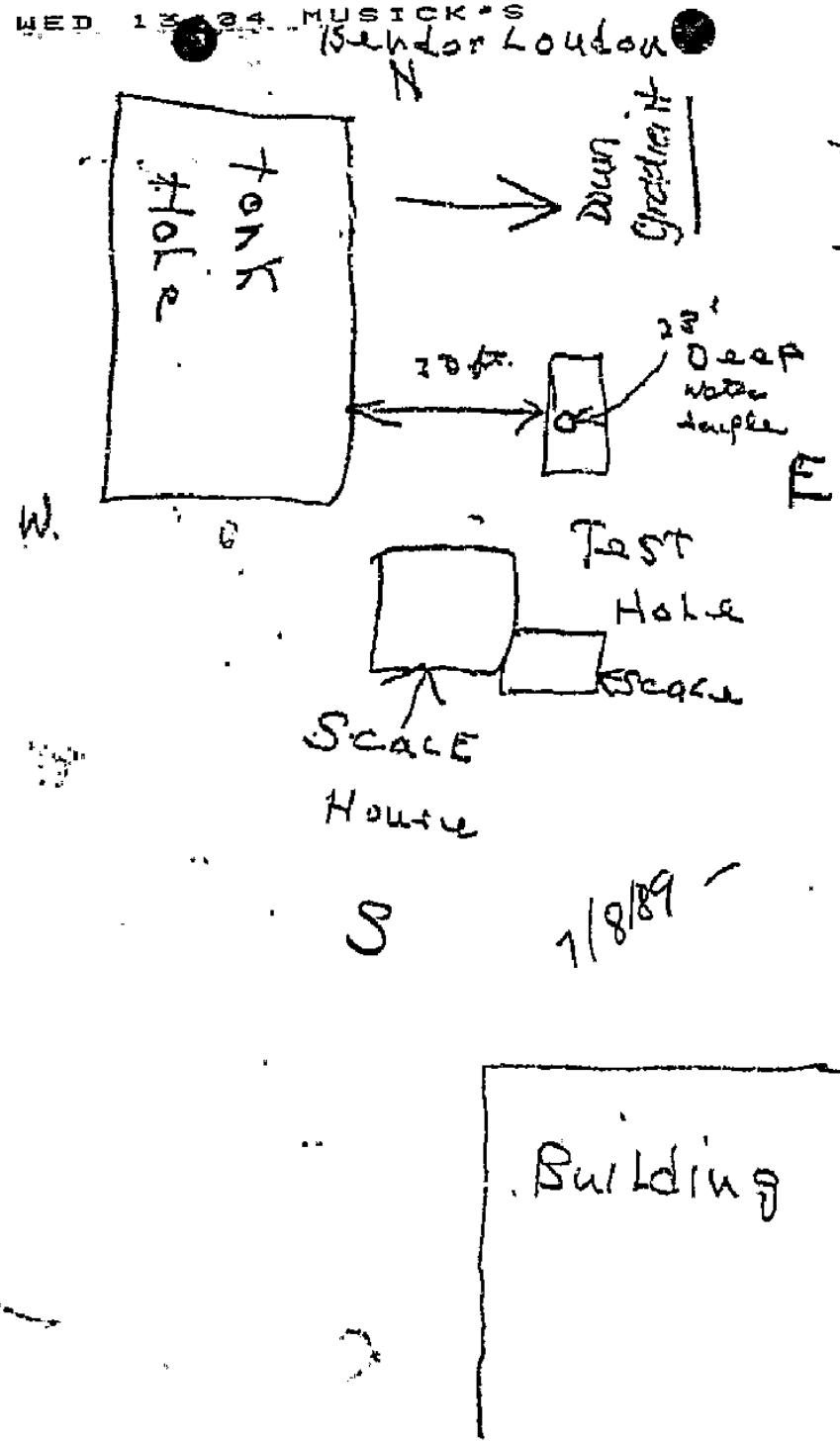

Behlor Loudon
N
Down Gradient
Tank Hole
20 ft.
24' Deep water sample
W.
E
Test Hole
Scale
SCALE House
S
1/8/89
Building
Street

Exhibit 78. Analysis of groundwater from tank hole.

9/18/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: P.O. #7832 Wastewater Analysis
Date sample received: 8/11/89

Lab # 13176 Sample ID: Bender-Loudon Water

Client: Musick's Service Station Maint

Lab #:		13176
Code	Parameter (Units)	
Ogh	Oil & Grease, Hydrocarbon (mg/l)	1.3
Flp	Flash Point (F)	>180.

ANALYSIS CERTIFIED BY Mary Stith

LEXINGTON SCIENTIFIC LABORATORY
508 Blasman Ct.
Mansfield, Ohio 4490
PH: (419) 525-1614

WATER FROM TANK EXCAVATION

ALLOWAY TESTING
1325 North Cole St.
Lima, Ohio 45801
PH: (419) 223-1362

508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1544

10/31/90

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: B & L
Date sample received: 10/19/90

Lab # 20225 Sample ID: Tank

Client: Musick's Service Station Maint

Lab #:			20225
Code	Parameter	(Units)	
TPH	Total Petroleum Hydrocarbon	(mg/l)	<10.
FLP	Flash Point (F)		>180.
PB	Lead, Total	(mg/l)	<0.010

Analysis Certified By Jacqueline A. Lewis
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

WATER FROM TANK EXCAVATION

ALLOWAY TESTING
1325 North Cole St.
Lima, Ohio 45801
PH: (419) 223-1382

508 Blissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

11/01/90

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: B & L
Date sample received: 10/19/90

Lab # 20225 Sample ID: Tank Exc.

Client: Musick's Service Station

Lab #:		20225
Code	Parameter (Units)	
FLP	Flash Point (F)	> 180.
	Benzene (ug/l)	< 2.
	Toluene (ug/l)	< 2.
	Ethylbenzene (ug/l)	< 2.
	Xylenes (m,p,o) (ug/l)	< 2.

Analysis Certified By Nancy Stelmy
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

CTL ENGINEERING, INC.
CONSULTING ENGINEERS
TESTING • INSPECTION
LABORATORY SERVICES
2680 Fisher Road. • P.O. Box 44007 • Columbus, Ohio 43204
Phone 614-276-3123 • Fax 614-276-6377

Report on Sample of Soil Pile

Report No. 89-31129

Date: October 6, 1989

Client: Chem-Tech Consultants
559 State Route 97 East
Bellville, Ohio 44813 - Attn: Craig Postel

P.O.No. CCT-387

Identification: Soil sample from Bendee submitted on 9-30-89

Top foot of trench OK excavation.

Test methods from USEPA document SW-846

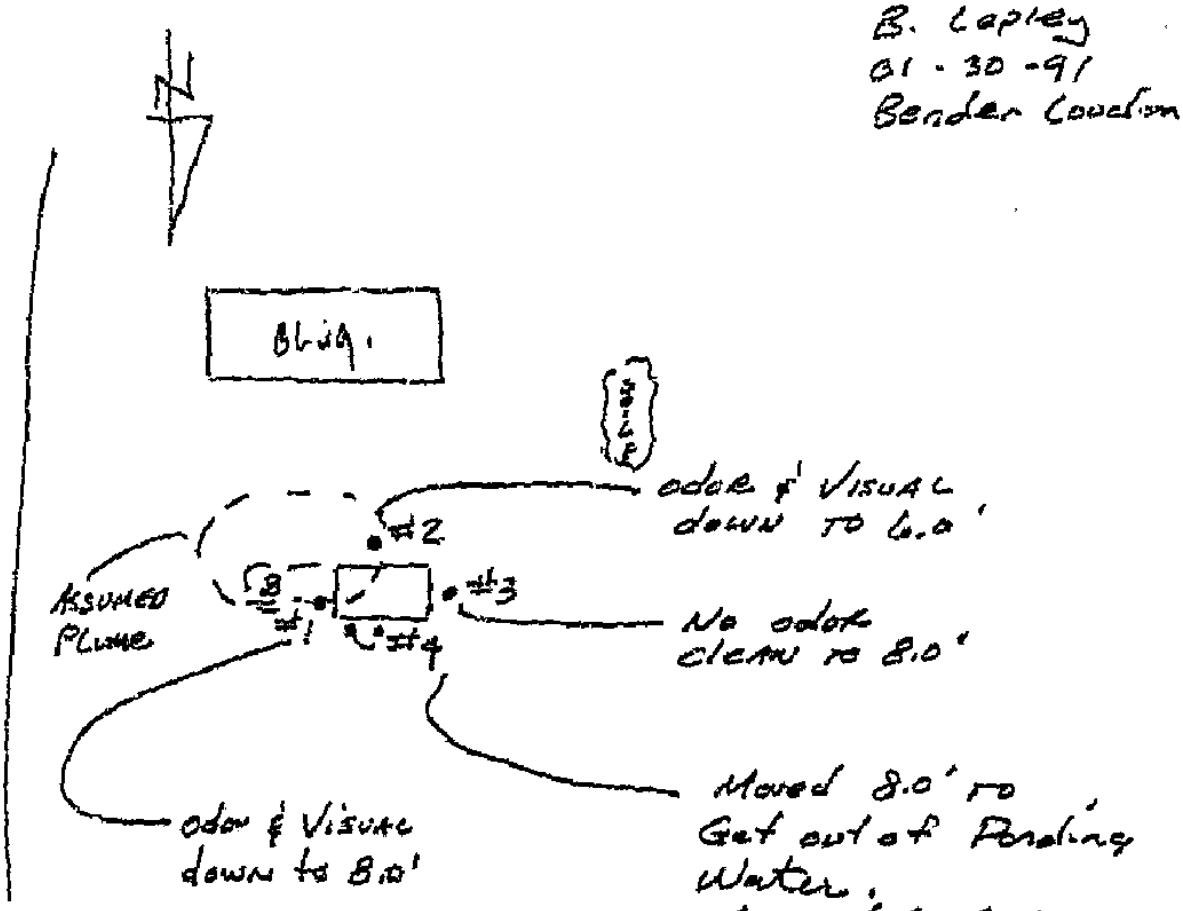
	Exc. West	Detection Limit
Benzene (ug/kg)	< 10	10
Toluene (ug/kg)	< 10	10
Ethylbenzene (ug/kg)	< 10	10
Xylene (ug/kg)	< 10	10
Total Petroleum Hydrocarbons (mg/kg)	<0.5	0.5

Respectfully submitted,

Terry Harbaugh

Terry Harbaugh, Chemist

C.A. Yoder
B. Copley
01-30-91
Bender Location



All equip was decon'd using 3 Rinse technique
1-Soap 2-DI Rinse.

on site @ 10

SITE LISTING UPDATE FORM

EXISTING INCIDENT #: 2|0|9|4|2|7|__|__| - |__|__| - |__|__|__|__| UPDATE.001 REV 8/89

FACILITY NAME: Reuter-Lemon NEW FACILITY INFO? ____ YES ✓ NO
(Update on back)

[1] REASON FOR LISTING UPDATE

✓ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
___ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
___ [9] Other:

[2] NEW SITE LISTING DATA

INCIDENT #: |__|__|__|__|__|__|__| - |__|__| - |__|__|__|__|
REPORT NUMBER FAC TRKG# SPRC

EMERGENCY RESPONSE: ___ YES ___ NO BY: ___ FD (_____) ___ OEPA ___ USEPA

STATUS: ___ RPT ___ AUS ___ DIS ___ CON ___ ICA ✓ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* ✓ 2 ___ 3 ___ 4 ___ 5

CLASSIFICATION: ___ A ___ B ___ C ✓ D LTF ELIGIBILITY: ___ YES (1) ___ NO (2)

SITE COORDINATOR: _____ CONTRACTOR: _____ WORK ORDER: _____

* [3] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)

(First sentence - why is it a 1? Second sentence - who is doing what at this time)

[4] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $100,000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement; amount: _____.

[5] SITE MANAGEMENT REMARKS

(BUSTR actions needed/taken, reports expected, etc.)

[6] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT

(For use by supervisor)

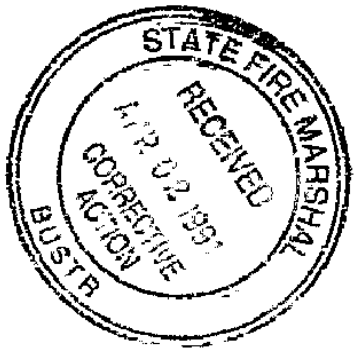
UPDATE SUBMITTED BY: CBZ DATE: 1/30/91

APPROVED: _____ DATE: 2/1/91 ENTRY: Steven DATE: FEB 07 1991

INC # 709417

Musick's Service Station Maintenance, Inc.

Rt. 12 - 324 Lewis Road • Mansfield, hio 44903
419-529-8606 • FAX: 419-529-8010



Date: 4-2-91

Company: BUSTR

Attention: CHARLIE ZEPP

Fax #: 614-752-7942

Reference: BENDER & LOUDEN MANSFIELD, OHIO

# of pages to follow: TWO INCLUDING COVER

If you do not receive the number of pages indicated above, or there is a question, feel free to call us at the above number.

Comments:

DEAR CHARLIE;
I AM ATTACHING A COPY OF THE RESULTS OF THE HNU READINGS FROM THE SOIL BORINGS AT BENDER & LOUDEN. I SHOULD HAVE HOR INFORMATION COMING TO YOU WITHIN THE NEXT FEW DAYS.

Signature:

JULIE KABBAZ

B+L

1-31-91

HOLE	SMP	Approx. Depth	HNU	BACKGROUND
(EAST) #1)	A	3'	30	.6
	B	4½'	150.	
	C	6½'	110	
(SOUTH) #2)	A	3'	40	
	B	6'	10	
	C	8'	6	
QT #2	D	2'	100	
(WEST) #3)	A	3'	3½	
	B	6'	30	
	C	7½'	12	
(NORTH) #4)	A	3'	6	
	B	6'	3	
	C	7½	10	

1/31/91

CHEM TECH
Consultants
559 State Route 97
Bellville, Ohio 44813
(419)886-4375
FAX (419)886-4062

June 7, 1991

Ohio Department of Commerce
Division of State Fire Marshal
BUSTR
7510 East Main Street
P.O. Box 525
Reynoldsburg, OH 43068-3399

Attn: Charles E. Zepp

RE: Bender & Loudon
815 North Beer Road
Ontario, OH 44903
Incident #709417
(90223\TR\RPT)

Dear Charlie:

As requested, I am forwarding additional maps and sample information regarding the Bender & Loudon site in Ontario, Ohio.

If you have any questions or require further information, please feel free to call.

Sincerely,

Christopher Hassmann

Christopher Hassmann
Environmental Scientist

CH:kw

enc.

cc: Julie Kabbaz - Musick's Service Station Maintenance

Bender Loudon Analytical Tabulation

A. Initial Sampling

Suspected Release Area

Location	Date	B	T	E	X	TPH
Under product line	6/9/89	1.3	.32	1.1	1.7	104
South bottom @ 12'	6/9/89	<.3	<.3	<.3	<.3	162
Under product island	6/9/89	<.3	<.3	<.3	<.3	121
S sidewall @ 6'	6/9/89	<.3	<.3	<.3	.32	165

Location	Date	B	T	E	X	TPH
W sidewall	No analysis					
N sidewall	No analysis					
E sidewall	No analysis					
Groundwater 30' downgradient	8/4/91	T=.008 mg/l				
Groundwater tank excavation	9/18/89	1.3 mg/l tph				
Groundwater tank excavation	10/31/91	<10 mg/l tph				
Groundwater tank excavation	11/01/91	<2 ug/l VOC				

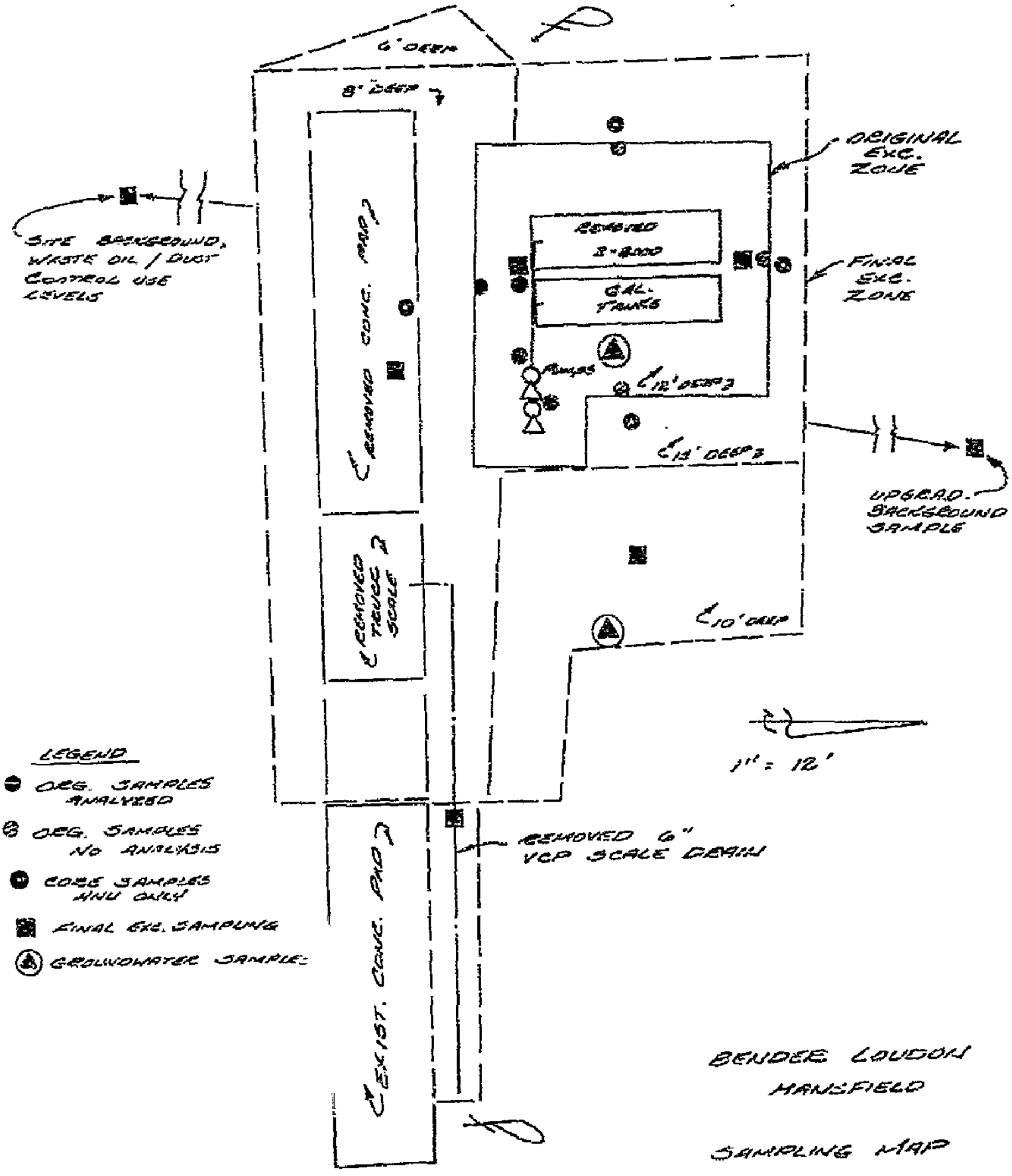
B. Core Borings - HNU Readings

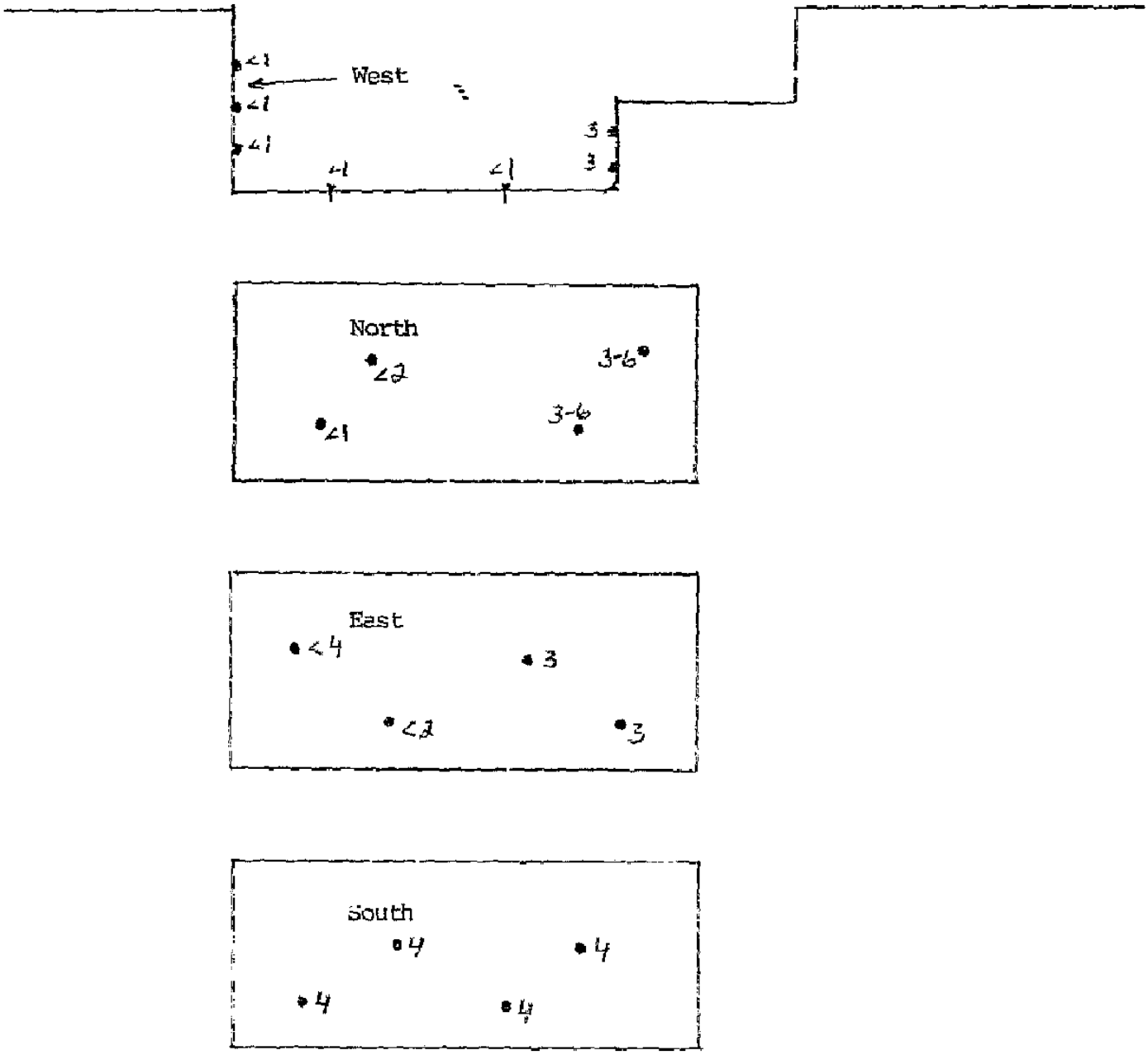
Location	Date	Depth	HNU
E boring 3' off excavation	1/30/91	3'	30
		4.5'	150
		6.5'	110
S boring 3' off excavation	1/30/91	2'	100
		3'	40
		6'	10
		8'	6

W boring 3' off excavation	1/30/91	3'	3.5
		6'	30
		7.5'	12
N boring 3' off excavation	1/30/91	3'	6
		6'	3
		7.5'	10

C. Final Sampling

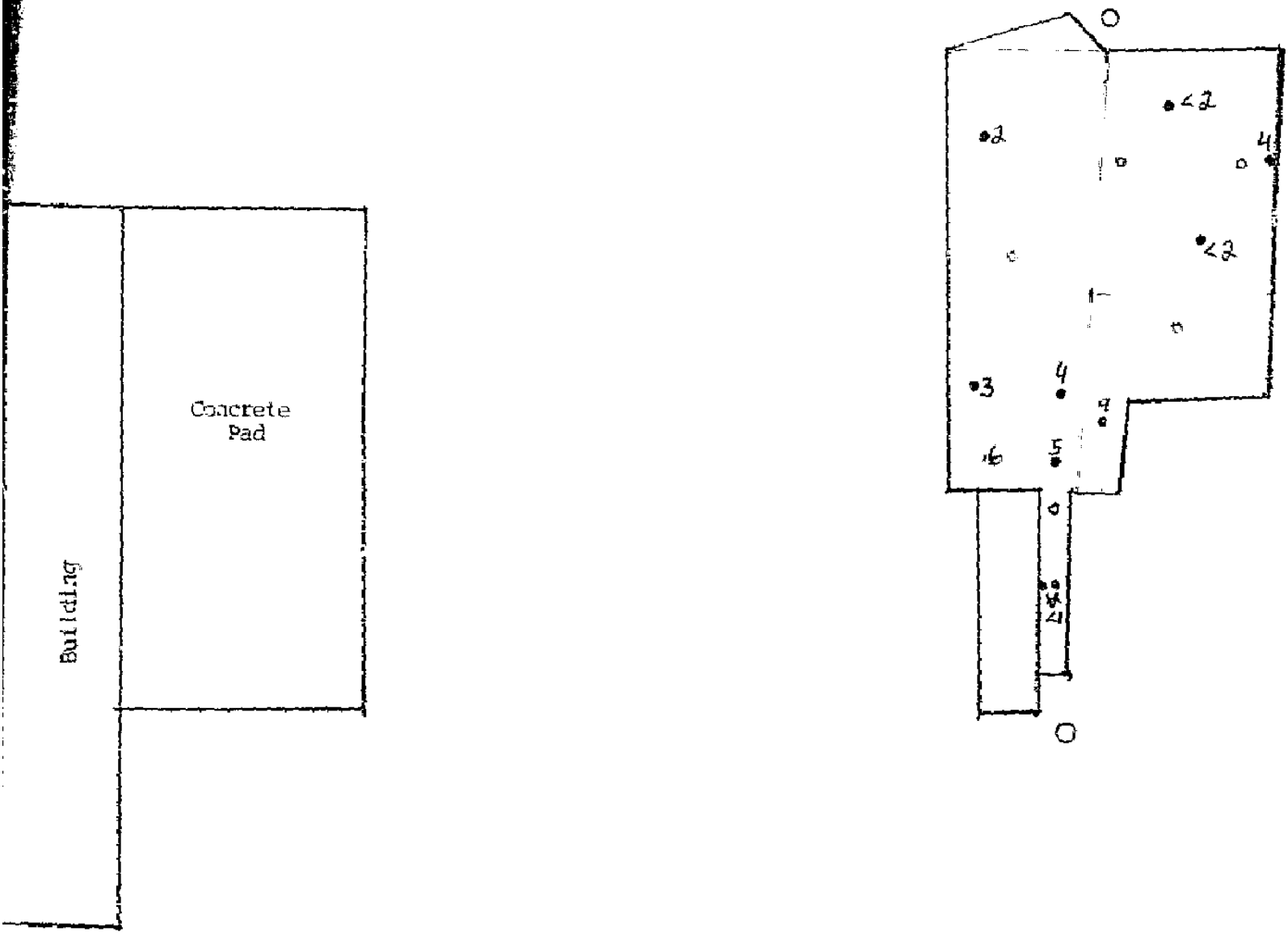
Sample #	BTEX (mg/kg)	TPH (mg/kg)
S bottom @ 15'	<0.005	42.2
N bottom @ 15'	<0.005	32.4
S Plateau @ 8'	<0.005	65.6
N sidewall @ 8-10'	<0.005	66.8
E plateau @ 10'	<0.005	59.1
Site background 1-3'	<0.005	125
E trench under sanitary	<0.005	46.5
300' N upgradient background	<0.005	42.5
	BTEX (mg/l)	TPH (mg/l)
Groundwater Tank Excavation	<2.0	1.02


6' DEEP
8' DEEP
ORIGINAL EXC. ZONE
SITE BACKGROUND, WASTE OIL / DUST CONTROL USE LEVELS
REMOVED CONC. PAD
REMOVED 2-8,000 GAL. TANKS
FINAL EXC. ZONE
PUMPS
@ 12' DEEP
@ 13' DEEP
UPGRAD. BACKGROUND SAMPLE
REMOVED TRENCH SCALE 2
@ 10' DEEP
1" = 12'
LEGEND
ORG. SAMPLES ANALYZED
ORG. SAMPLES NO ANALYSIS
CORE SAMPLES AND DAILY
FINAL EXC. SAMPLING
GROUNDWATER SAMPLE
REMOVED 6" VCP SCALE DRAIN
EXIST. CONC. PAD
BENDER LOUDON MANSFIELD
SAMPLING MAP



Final Sidewall

PID Field Scans
(PPM)
(Not to scale)



▫ Sample Location

• PID Field Scan Location

○ Utility Pole

Final Bottom

PID Field Scans (ppm)
at
Bencer & Loudon

Scale 1" = 25'

Exhibit #1. 6-9-89 Bottom of tank excavation
12' deep at edge of concrete hold down pad

6/27/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7156
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12138 SAMPLE ID: #1 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12138
Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	
Pbs	Lead, Total (mg/kg)	25.6
Cds	Cadmium, Total (mg/kg)	1.0
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	162.
	Benzene (mg/kg)	<0.3
	Toluene (mg/kg)	<0.3
	Xylene (mg/kg)	<0.3
	Ethylbenzene (mg/kg)	<0.3

Client: Musick's Service Station Maint

Lab #:		12138
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bun - sen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY _____

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

BC 1015

Exhibit #2. 6-9-89 Soil sample from under product line.

6/24/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7157
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12136 SAMPLE ID: #2 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12136
Code	Parameter (Units)	
LW	All Units Reported as Dry Weight	
Pbs	Lead, Total (mg/kg)	25.1
Cds	Cadmium, Total (mg/kg)	1.20
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	104.
	Benzene (mg/kg)	1.3
	Toluene (mg/kg)	0.32
	Xylene (mg/kg)	1.1
	Ethylbenzene (mg/kg)	1.7

Client: Musick's Service Station Maint

Lab #:		12136
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bun - sen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY Mary Ellen

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

C B/L 10k5

Exhibit #4. 6-9-89. Soil sample under the island that was removed.

6/27/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7158
DATE SAMP RECEIVED: 6/09/89

LAB # 12139 SAMPLE ID: #3 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12139
Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	
Pbs	Lead, Total (mg/kg)	22.5
Cds	Cadmium, Total (mg/kg)	0.9
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	121.
	Benzene (mg/kg)	<0.3
	Toluene (mg/kg)	<0.3
	Xylene (mg/kg)	<0.3
	Ethylbenzene (mg/kg)	<0.3

Client: Musick's Service Station Maint

Lab #:		12139
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bunsen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not gnite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY _____

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH. (419) 525-1644

C BK 1015

Exhibit #5. 6-9-89 Soil sample from the tank excavation. Side 4' up from the bottom.

6/24/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

PROJECT: P.O. #7159
DATE SAMPLE RECEIVED: 6/09/89

LAB # 12137 SAMPLE ID: #4 Bender-Loudon

Client: Musick's Service Station Maint

Lab #:		12137
Code	Parameter (Units)	
DW	All Units Reported as Dry Weight	
Pbs	Lead, Total (mg/kg)	19.6
Cds	Cadmium, Total (mg/kg)	0.8
Ogs	Oil & Grease, Hydrocarbon (mg/kg)	165.
	Benzene (mg/kg)	0.30
	Toluene (mg/kg)	<0.30
	Xylene (mg/kg)	<0.30
	Ethylbenzene (mg/kg)	0.32

Client: Musick's Service Station Maint

Lab #:		12137
Code	Parameter (Units)	
IG	Ignitability - 30 grams of sample was placed in an evaporating dish and covered with a watch glass for 2 minutes. A bunsen burner flame passed within 3 cm of the waste. The flame was then passed over the waste again, this time coming into contact with the waste. RESULT: The sample did not ignite when the bunsen burner flame passed within 3 cm of the sample. The sample did not ignite after prolonged contact with the bunsen burner flame.	

ANALYSIS CERTIFIED BY

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

BC 10/25

Exhibit #6. 7-10-89 Groundwater sample taken from the groundwater at a depth of 23', down gradient of the tank hole towards Beer Road. Spot located by Kelly Gill.
Approximately 30' down gradient

August 4, 1989

Musick's Service Station Maint.
Julie Kabbaz
Rt. 12 324 Lewis Rd.
Mansfield, OH 44903

Project: P.O. #7217
Lab #12572

Sample I.D.: Bender/Loudon Water

Date Received: 7/10/89

Parameter	Units	Result #12572
Chloroform	ug/l	<2.
Bromodichloromethane	ug/l	<5.
Dibromochloromethane	ug/l	<5.
Bromoform	ug/l	<5.
Bromomethane	ug/l	<5.
Chloroethane	ug/l	<2.
Methylene Chloride	ug/l	<4.
Trichlorofluoromethane	ug/l	<5.
1,1-Dichloroethene	ug/l	<2.
Chloromethane	ug/l	<5.
1,1-Dichloroethane	ug/l	<2.
Trans-1,2-Dichloroethene	ug/l	<2.
1,2-Dichloroethane	ug/l	<2.
1,1,1-Trichloroethane	ug/l	<2.
Carbon Tetrachloride	ug/l	<2.
1,2-Dichloropropane	ug/l	<2.
Trans-1,3-Dichloropropene	ug/l	<2.
Trichloroethene	ug/l	<2.
cis-1,3-Dichloropropene	ug/l	<2.
1,1,2-Trichloroethane	ug/l	<2.
2-Chloroethyl Vinyl Ether	ug/l	<5.
1,1,2,2-Tetrachloroethane	ug/l	<2.
Tetrachloroethene	ug/l	<2.
Vinyl Chloride	ug/l	<5.
Benzene	ug/l	<2.
Toluene	ug/l	8.0
Chlorobenzene	ug/l	<2.
Ethylbenzene	ug/l	<2.
1,2-Dichlorobenzene	ug/l	<2.
1,3-Dichlorobenzene	ug/l	<2.
1,4-Dichlorobenzene	ug/l	<2.
Xylene	ug/l	<2.

Analysis Certified By Mary Dale

LEXINGTON SCIENTIFIC LABORATORY
508 Bissman Ct.
Mansfield, Ohio 44905
PH. (419) 525-1644

B/C N/C

Exhibit #8. Analysis of groundwater from tank hole.

9/18/89

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: P.O. #7832 Wastewater Analysis
Date sample received: 8/11/89

Lab # 13176 Sample ID: Bender-Loudon Water

Client: Musick's Service Station Maint

Lab #:		13176
Code	Parameter (Units)	
Ogh	Oil & Grease, Hydrocarbon (mg/l)	1.3
Flp	Flash Point (F)	>180.

ANALYSIS CERTIFIED BY Mary Smith

LEXINGTON SCIENTIFIC LABORATORY
500 Bissman Ct.
Mansfield, Ohio 44903
PH: (419) 525-1644

C B/L 18.1 F

WATER FROM TANK EXCAVATION

ALLOWAY TESTING
1325 North Cola St.
Lima, Ohio 45801
PH: (419) 223-1352

508 Bissman Ct.
Mansfield, Ohio 44906
PH: (419) 525-1644

10/31/90

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: B & [illegible]
Date sample received: 10/19/90

Lab # 20225 Sample ID: Tank

Client: Musick's Service Station Maint

Lab #: 20225

Code	Parameter (Units)	
TPH	Total Petroleum Hydrocarbon (mg/l)	<10.
FLP	Flash Point (F)	>130.
PB	Lead, Total (mg/l)	<0.010

Analysis Certified By Jacqueline A. Lewis
Ohio EPA Certification Chemical 715, Bacteriological 933

NVLAP Accredited

00000159

WATER FROM TANK EXCAVATION

ALLOWAY TESTING
132 North Cole St.
Lima, Ohio 45801
PH: (419) 223-1364

508 Bissman Ct.
Mansfield, Ohio 44905
PH: (419) 525-1644

11/01/90

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: B & L
Date sample received: 10/19/90

Lab # 20225 Sample ID: Tank Exc.

Client: Musick's Service Station

Lab #: 20225

Code	Parameter (Units)	
FLP	Flash Point (F)	> 180.
	Benzene (ug/l)	< 2.
	Toluene (ug/l)	< 2.
	Ethylbenzene (ug/l)	< 2.
	Xylenes (m,p,o) (ug/l)	< 2.

Analysis Certified By Marcy Tilling

Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP

00000160

Musick's Service Station Maintenance, Inc.

Rt. 12 - 324 Lewis Road • Mansfield, Ohio 44903
419-529-3606 • FAX: 419-529-8010

Bob Bender
page two

Hole #1	East	Sample	Depth	HNU readings	Background
		A	3'	30	.6
		B	4½'	150	.6
		C	6½'	110	.6
Hole #2	South	A	3'	40	.6
		B	6'	10	.6
		C	8	6	.6
		D	2'	100	.6
Hole #3	West	A	3'	3.5	.6
		B	6'	30	.6
		C	7½'	12	.6
Hole #4	North	A	3'	6	.6
		B	6'	3	.6
		C	7½"	10	.6

Send information to Charlie Zepp (20 pages). 1-31-91 Discussed paperwork with Charlie Zepp. 2-14-91 Meeting withBob Bender and Chem Tech. 3-14-91 Received samples. Reviewed with Chem Tech. 4-2-91 Send information to Charlie Zepp regarding HPNU readings. Prepare letter of instruction to Chicago Title Insurance Company.

0000076

Alloway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab# 23701 Sample ID: Tank Bottom S. 15'

Lab# 23702 Sample ID: Tank Bottom N. 15'

Lab# 23703 Sample ID: SP 8'

Client: Musick's Service Station

Code	Parameter (Units)	23701	23702	23703
	Benzene (mg/kg)	<0.005	<0.005	<0.005
	Toluene (mg/kg)	<0.005	<0.005	<0.005
	Ethylbenzene (mg/kg)	<0.005	<0.005	<0.005
	Xylenes (m,p,o) (mg/kg)	<0.005	<0.005	<0.005

Analysis Certified By
Ohio EPA Certification: Chemical 715, Bacteriological 333

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
Phone: 419/223-1362 • Fax: 419/227-379

508 Bissman St. • Mansfield, OH 44905
Phone: 419/525-1644 • Fax: 419/525-164

ALLOWAY TESTING

1325 NORTH COLE St. LIMA, OHIO 45801
PH: (419) 223-1362

506 BISSMAN CT. MANSFIELD, OHIO 44306
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 13, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23701 Sample ID: Tank Bottom S. 15'
Lab # 23702 Sample ID: Tank Bottom N. 15'
Lab # 23703 Sample ID: SP 8'

Client: Musick's Service Station Maint

Lab #:		23701	23702	23703
Code	Parameter (Units)			
TPH	Total Petroleum Hydrocarbon (mg/kg)	42.3	32.4	65.6

TPH Method Numbers: 9071, 418.1
Reference: SW 846, EPA-600

Analysis Approved By Jacqueline A. Lewis

Member - Area Chamber of Commerce

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12. 324 Lewis Road
Mansfield OH 4903

Project: Bender & Loudon
Date samples received: 18/91

Lab# 23704 Sample ID: N. Sidewall 8-10'

Lab# 23705 Sample ID: East Plat 10'

Lab# 23706 Sample ID: Background 1-3'

Client: Musick's Service Station

Code	Parameter (Units)	23704	23705	23706
	Benzene (mg/kg)	<0.005	<0.005	<0.005
	Toluene (mg/kg)	<0.005	<0.005	<0.005
	Ethylbenzene (mg/kg)	<0.005	<0.005	<0.005
	Xylenes (m,p,o) (mg/kg)	<0.005	<0.005	<0.005

Analysis Certified By Mary Ellen
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
Phone: 419/223-1362 • Fax: 419/227-37
508 Bissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-16

ALLOWAY TESTING

1325 NORTH COLE ST. LIMA, OHIO 45801
PH: (419) 223-1362

508 BISSMAN CT. MANSFIELD, OHIO 44905
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23704 Sample ID: N Sidewall 8-10'
Lab # 23705 Sample ID: East Plot 10'
Lab # 23706 Sample ID: Background 1-3' Under Lot

Client: Musick's Service Station Maint

Lab #:		23704	23705	23706
Code	Parameter (Units)			
TPH	Total Petroleum Hydrocarbon (mg/kg)	60.8	59.1	125.

Method Numbers: 9071, 418.1
Reference: Sw 846, EPA-600

Analysis Approved By [signature]

Member - Area Chamber of Commerce

NVLAP Accredited

Allaway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab# 23707 Sample ID: E. Trench Under Sanitary

Lab# 23708 Sample ID: Background 300' N. Upgradient

Client: Musick's Service Station

Lab:#		23707	23708
Code	Parameter (Units)		
	Benzene (mg/kg)	< 0.005	< 0.005
	Toluene (mg/kg)	< 0.005	< 0.005
	Ethylbenzene (mg/kg)	< 0.005	< 0.005
	Xylenes (m,p,o) (mg/kg)	< 0.005	< 0.005

Analysis Certified By

Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45801
Phone: 419/223-1362 • Fax: 419/227-3791

508 Lissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-1644

ALLOWAY TESTING

1325 NORTH COLE ST. LIMA, OHIO 45801
PH: (419) 223-1362

508 BISSMAN CT. MANSFIELD, OHIO 44906
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23707 Sample ID: E. Trench Under Sanitary
Lab # 23708 Sample ID: Background 300' N. Upgradient

Client: Musick's Service Station Maint

Lab #:		23707	23708
Code	Parameter (Units)		
TPH	Total Petroleum Hydrocarbon (mg/kg)	46.8	42.5

TPH Method Numbers: 9071, 418.1
Reference: SW 846, EPA-600

Analysis Approved By: Jacqueline A. Jones

Member - Area Chamber of Commerce

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/10/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 13, 324 Lewis Rd
Mansfield OH 44903

Project: B & L
Date sample received: 4/29/91

Lab # 23918 Sample ID: GW

Client: Musick's Service Station Maint

Lab #:		23918
Code	Parameter (Units)	
TPH	Total Petroleum Hydrocarbon (mg/l)	1.02

TPH Method Numbers: 9071, 418.1
Reference: SW 846, EPA-600

Analyses Certified by Jacqueline B. Shaw
Ohio EPA Certification: Chemical 715, Bacteriological 853

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/10/91

Musick's Service Station
Ms. Julie Kabbaz
Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: B&L
Date sample received: 4/29/91

Lab # 23918 Sample ID: GW

Client: Musick's Service Station

Code	Parameter (Units)		23918
	Benzene (ug/l)	<	2.0
	Toulene (ug/l)	<	2.0
	Ethylbenzene (ug/l)	<	2.0
	Xylenes (m,p,o) (ug/l)	<	2.0

Date Injected: 5/9/91

Analysis Certified By
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
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508 Bissman Ct. • Mansfield, OH 44906
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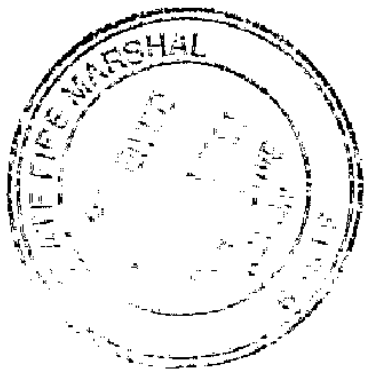
Musick's Service Station Maintenance, Inc.

Rt. 12 - 324 Lewis Road • Mansfield, Ohio 44903
419-529-3606 • FAX: 419-529-8010

5-30-91



STATE FIRE MARSHALS OFFICE
Bureau of Underground Storage Tanks
Site Investigation
7510 E Main St.
Reynoldsburg, Ohio 43068-3395

Attn: Charlie Zepp

RE: Bender & Loudon

Dear Charlie;

For our many conversations, please review the attached report and get back to me as soon as possible.

We are very confident that this site is cleaned up as much as possible, even beyond the background sample that was taken from the lot.

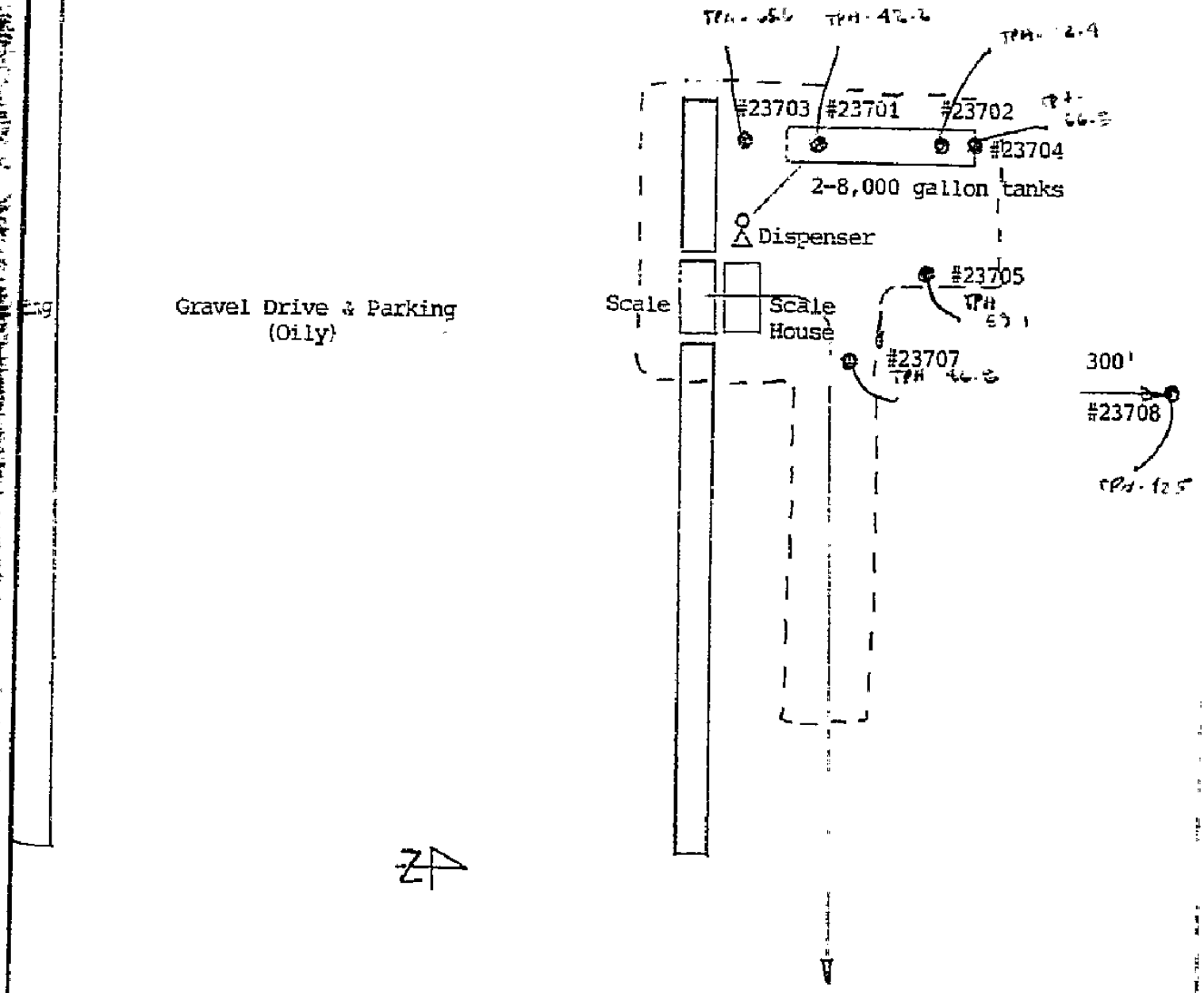
Should you agree that no additional work is needed please send us a no further action letter, as this property is in the process of being sold however has been held up due to the contamination.

Sincerely,

Julie Kabbes

Julie Kabbes
Office Manager

#23706 TPH-125



BENDER & LOUDON
(Not to Scale)

INITIAL CORRECTIVE ACTION
SITE INVESTIGATION AND
FREE PRODUCT REMOVAL

for

BENDER AND LOUDON

815 NORTH BEER ROAD

ONTARIO, OHIO 44903

INCIDENT #709417-00

MAY, 1991

By:

CHEM-TECH CONSULTANTS, INC.
559 STATE ROUTE 97 EAST
BELLVILLE, OHIO 44813
419/886-4375

Christopher Hassmann
Christopher Hassmann
Reporter

90223\TM\RPT

Executive Summary

Bill West called Musick's on May 26, 1989 stating that he suspected a leak under the pump. Musick's advised him to report the spill to the State Fire Marshal's office.

Two 8,000 gallon diesel fuel underground storage tanks were removed on June 8, 1989 from the property of Bender and Loudon. The removal was performed by Musick's Service Station Maintenance.

Excavation of soil was performed in three stages. After the first stage, the tanks and surrounding soil were removed. The second stage involved removal of additional soil to the south and east. The scale, soil around it, and soil around the drain line from the scale were removed during the third stage. Samples were taken after the third stage.

Notification

Notification was made to the State Fire Marshal's office by Bill West of Bender and Loudon.

A. Initial Corrective Actions (1301-7-7-36)

1. Report

This report is intended to comply with OAC 1301-7-7-36.

2. Stop Any Further Release

A check valve was replaced on the west pump on May 30, 1989. The tanks were pumped of remaining product and then removed on June 8, 1989.

3. Mitigate Fire, Explosion & Safety Hazards

Any potential fire or explosion hazards were removed from the site. Explosion proof pumps were used to remove free product and groundwater.

Barricades were placed in order to prevent inadvertent public access into the excavation area.

4. Removal and Disposal of Contaminated Soil or H_2O

Contaminated soil was placed on and covered with visqueen.

Contaminated water was removed from the site and disposed of at the Mansfield Wastewater Treatment Plant by Brownie Sewer & Septic Tank Service.

The tanks were purged with dry ice, etched, and disposed of by Kittle Truck & Equipment Company of Crestline.

5. Free Product Investigation

A trench was dug between the tanks on May 26, 1989. Water and fuel were skimmed from the hole.

Booms were placed on a nearby creek and checked occasionally for free product but none was found.

Area from the edge of the tank hole was dug to the concrete drive area. Diesel fuel came out from under the concrete. The concrete was then removed.

B. Site Investigation

1. Data on the Nature of the Release and Estimated Quantity

The release of diesel fuel was estimated to be greater than reportable quantity.

2. Data from Surface and Subsurface Soil Sampling

Sample#	BTEX (mg/kg)	TPH (mg/kg)
23701	<0.005	42.2
23702	<0.005	32.4
23703	<0.005	65.6
23704	<0.005	66.8
23705	<0.005	59.1
23706*	<0.005	125

23707	<0.005	46.8
23708*	<0.005	42.5

*Background Samples

3. Data from Groundwater and/or Surface Water Sampling and Analyses

Final Ground Water Sample From Excavation

Sample #	BTEX (mg/l)	TPH (mg/l)
23918	<2.0	1.02

4. Data from Available Sources - Soil Survey Map, ODNR Groundwater Maps, Background Site Levels Prior to the Release, Land Use, Climatological Conditions

The soil survey map of Richland County (see Appendix) indicates the site is in an area of cut and fill land. The material is variable because the natural soil has been altered by cutting and filling.

The ODNR Groundwater Resources Map indicates that the site is in an area in which yields of as much as 25 gallons or more per minute may be developed. Groundwater supplies for domestic use may be developed in the sandstone-shale bedrock at depths of 50 to 275 feet.

Background site levels were not established before the release. However, a background sample was taken 100 feet south of the excavation in the slag drive at a depth of 1-3 feet. The drive had been coated with oil. Oil was present

visually to a depth of six inches. This is sample #23706 with a TPH of 125 mg/kg.

The other background sample, #23708, was taken 300 feet north and upgradient of the tanks. It is consistent with the samples taken from the excavation.

Land use is commercial, industrial and agricultural. Trac-Line Equipment and Quality Farm and Fleet are to the north and northwest. There is a farm approximately 1/4 mile to the south. CPC Division of General Motors is to the east.

The climate of Richland County is marked by a wide range in annual, daily, and day-to-day temperature. Winter is reasonably cold and cloudy. Summer is reasonably warm and humid.

C. Free Product Removal 1301-7-7-36 (C2)

1. Implementation

Free product and contaminated groundwater was collected by Musick's on a regular basis. Free product and water was skimmed from the excavation and taken to Musick's or drummed on-site until disposal.

2. Estimated Quantity and Product Type

Brownie Sewer & Septic Tank Service evacuated 52,500 gallons of water from the excavation.

On June 12, 1989, Fishburn Services hauled away 2,500 gallons of contaminated water for disposal. Included in the 2,500 gallons was 50 gallons of product that was hand pumped from the bottom of the tanks and an additional 15 gallons of fuel. On June 13, 1989, 100 gallons of water and 20 gallons of fuel were collected, stored at Musick's and then picked-up by Fishburn Services. On June 16, 10 gallons of free product and 90 gallons of water were collected.

3. Product Recovery System Details

Product recovery was skimming by Musick's. Currently, there is no recovery system in place.

4. On/Off-Site Discharge

No on/off-site discharge.

5. Disposition of the Recovered Product

Product and contaminated water were collected and then stored on-site or at Musick's. It was then hauled off for disposal.

Much of the contaminated water was disposed of at the Mansfield Wastewater Treatment Plant.

A P P E N D I C E S

SITE LOCATION MAP

SITE PLAN MAP

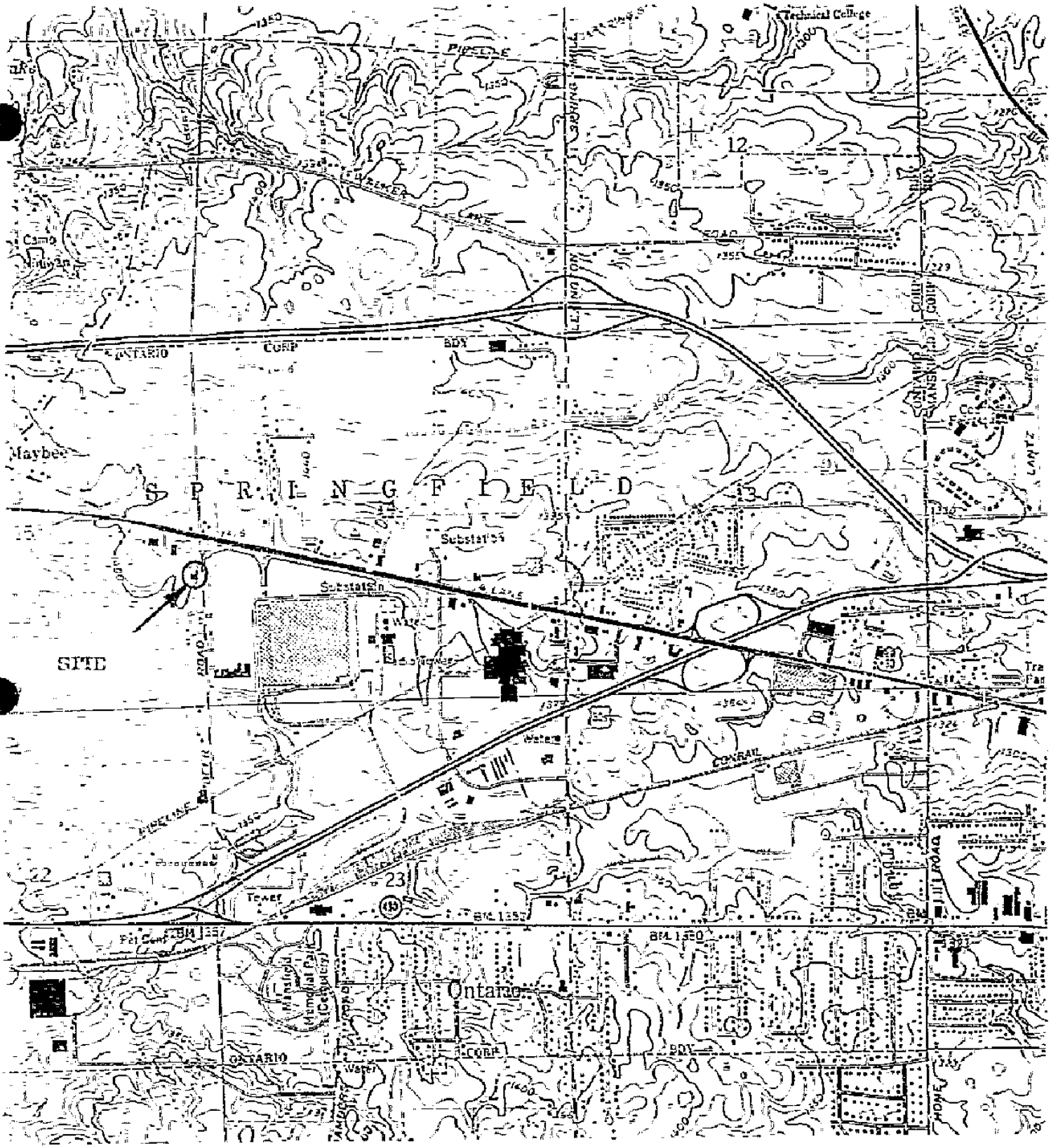
SOIL SURVEY MAP

ODNR GROUNDWATER RESOURCES MAP

LABORATORY ANALYTICAL RESULTS

CHAIN-OF-CUSTODIES

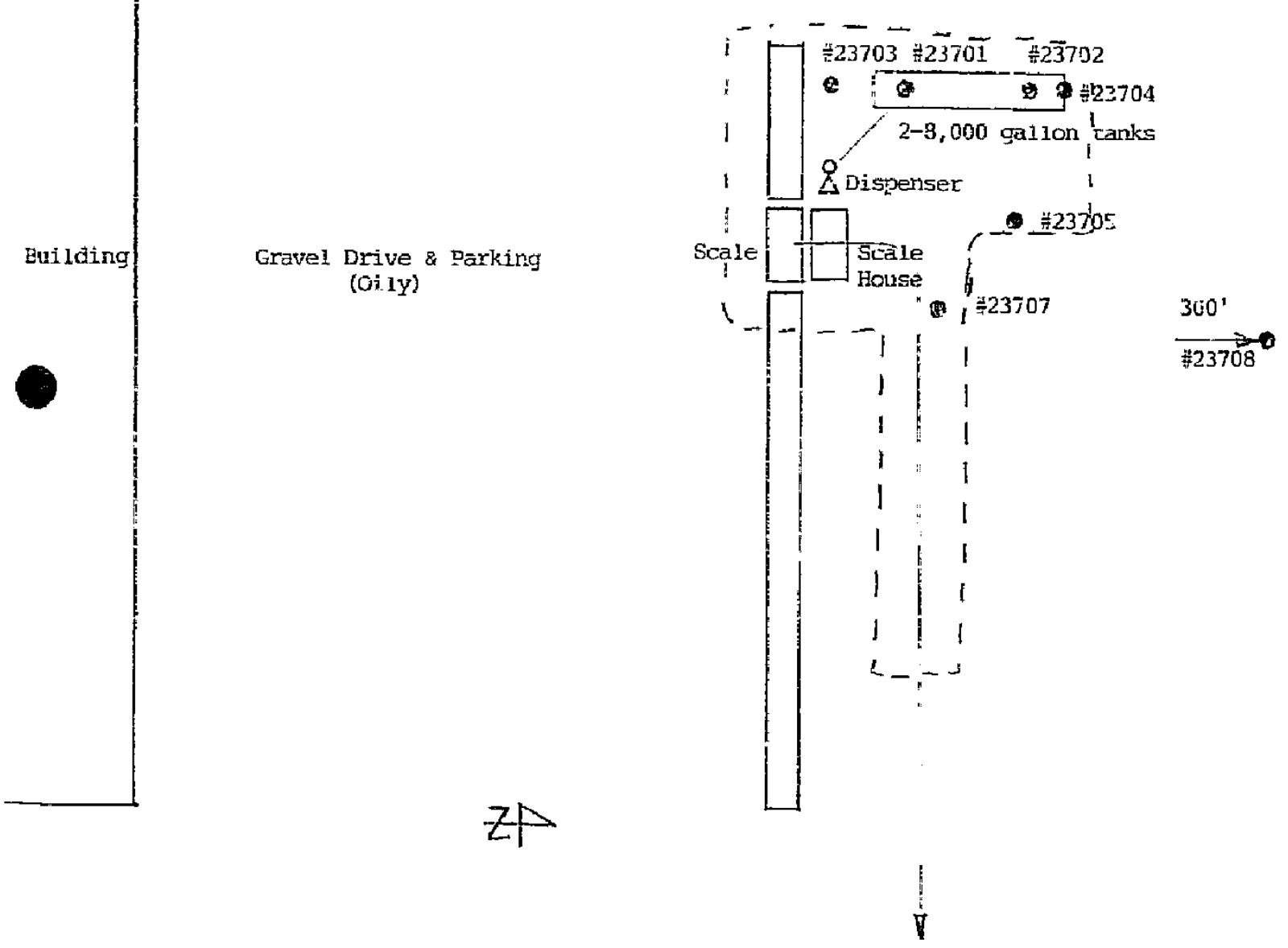
REMOVAL PERMIT



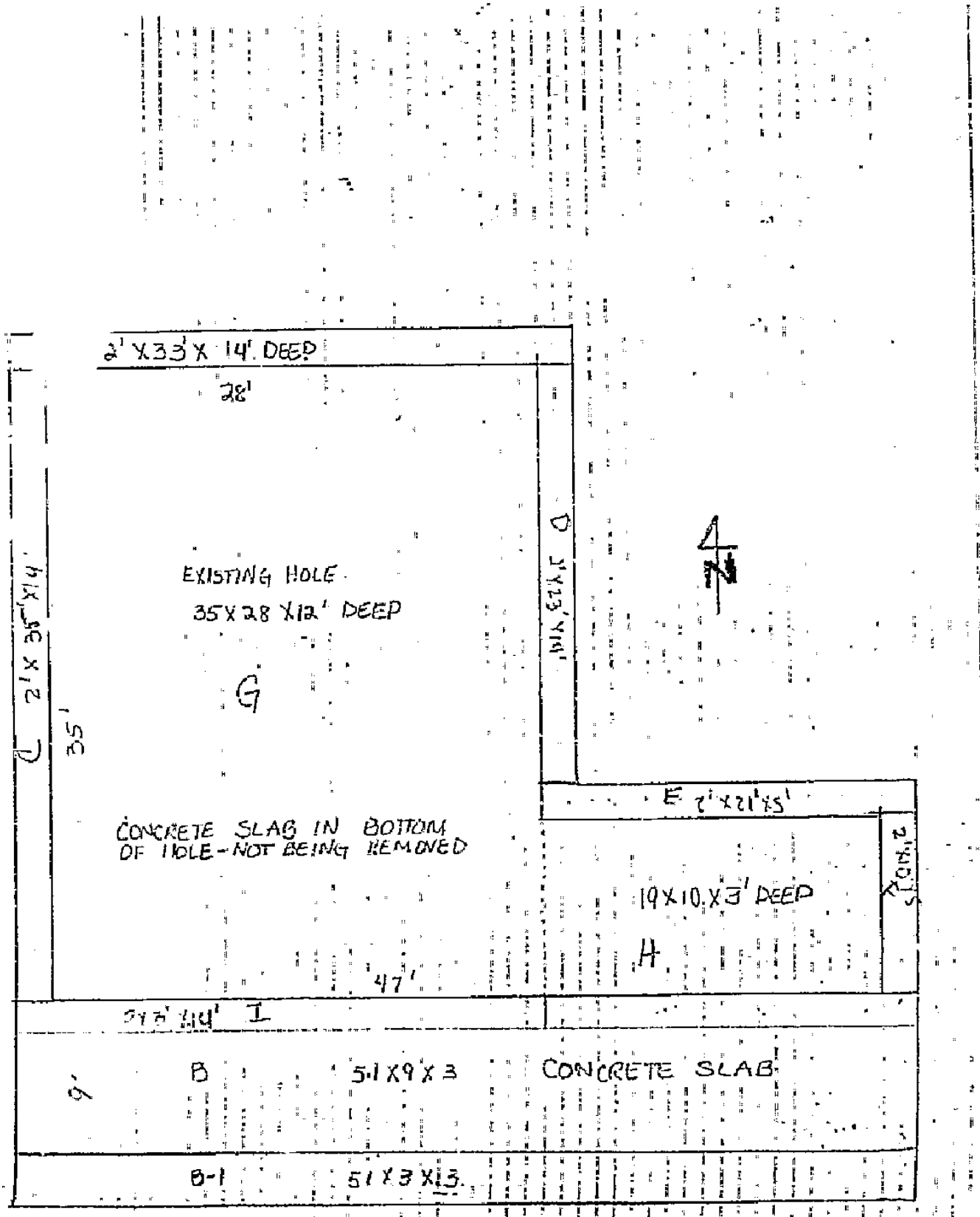
BENDER & LOUDON

Site Location Map

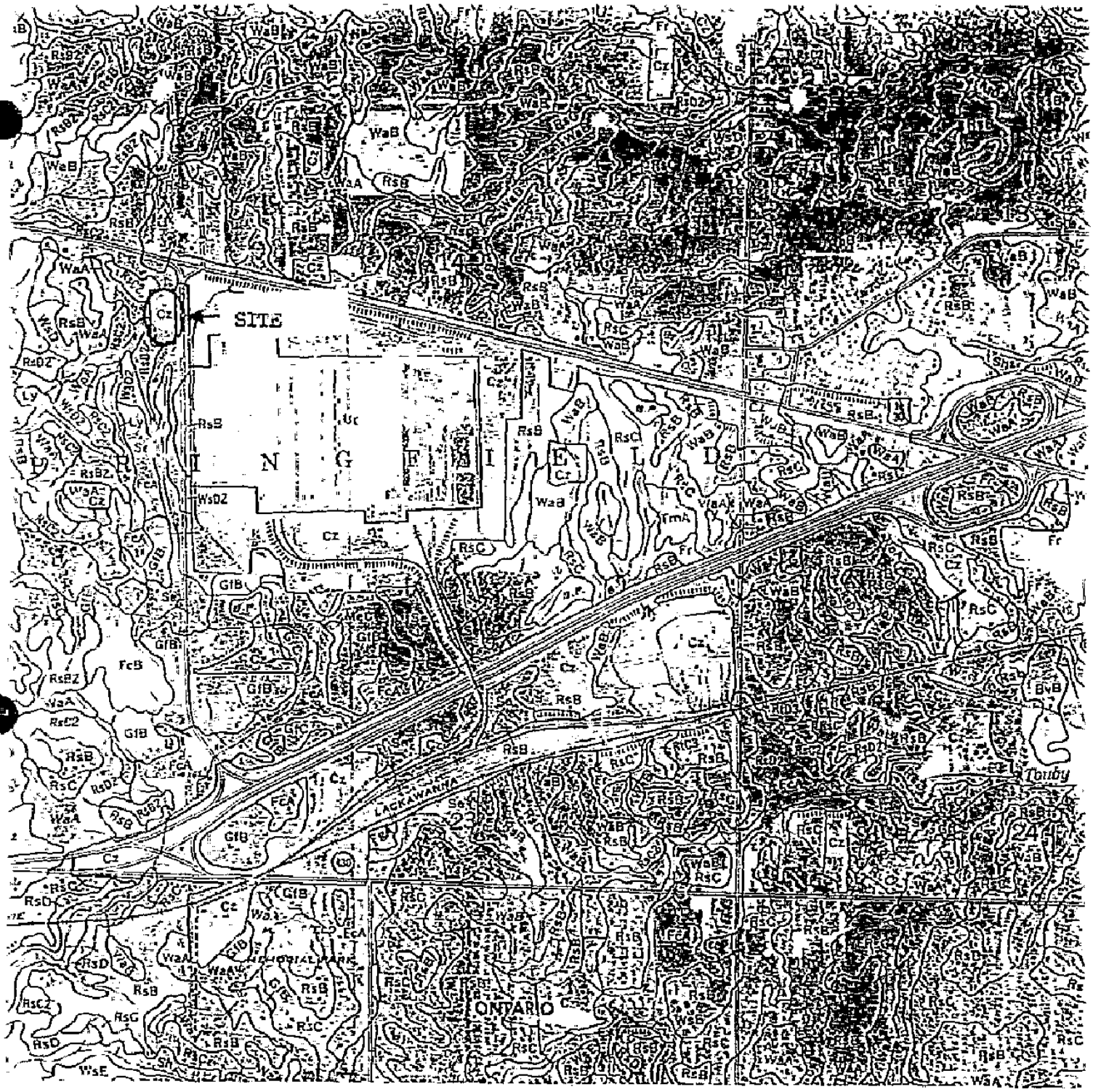
#23706



BENDER & LOUDON
(Not to Scale)

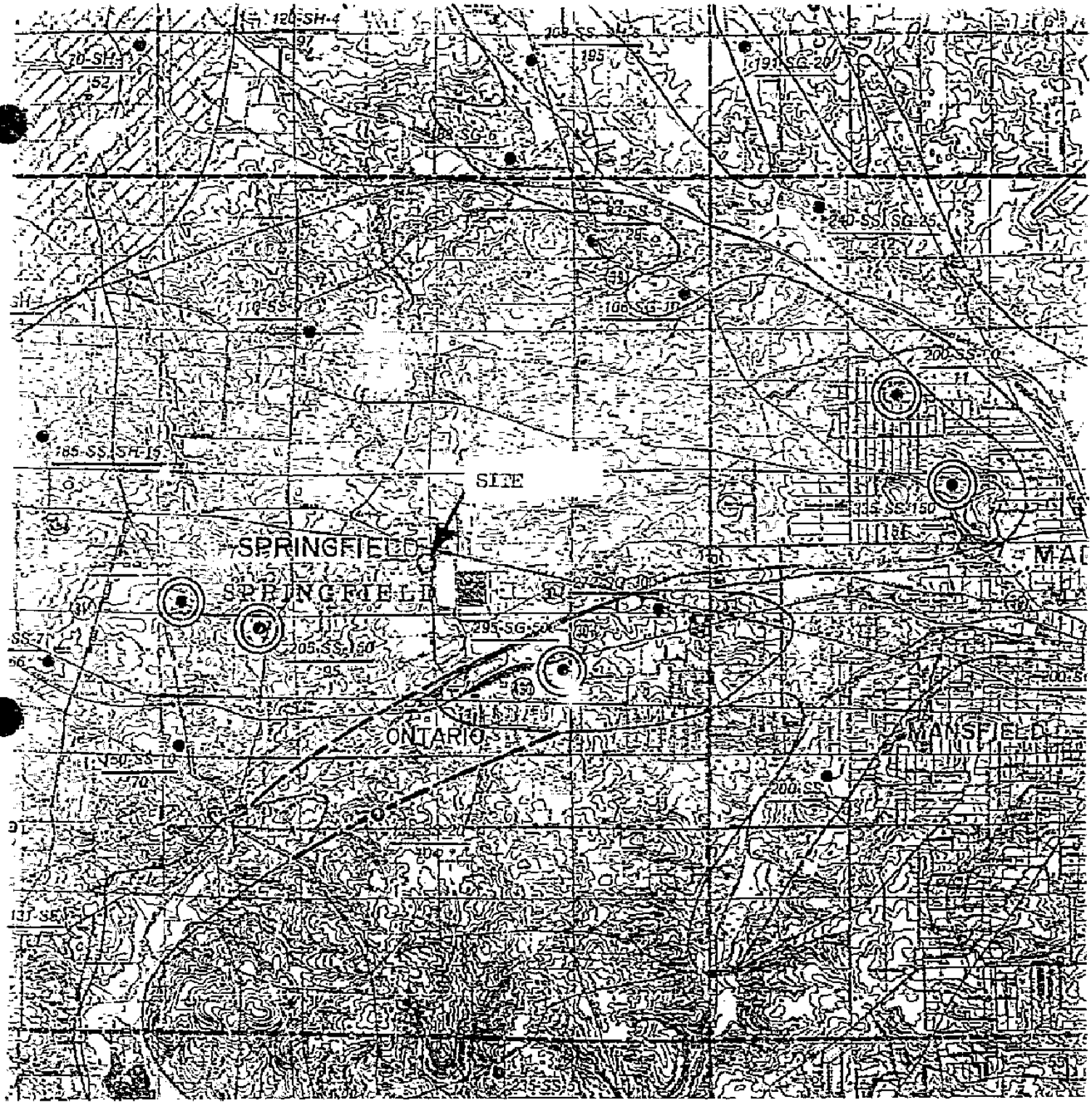


EXCAVATION DIMENSIONS



Soil Survey Map

BENDER LOUDON



ODNR Groundwater Resources Map

BENDER LOUDON

Alloway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab# 23701 Sample ID: Tank Bottom S. 15'

Lab# 23702 Sample ID: Tank Bottom N. 15'

Lab# 23703 Sample ID: SP 8'

Client: Musick's Service Station

Lab#:		23701	23702	23703
Code	Parameter (Units)			
	Benzene (mg/kg)	<0.005	<0.005	<0.005
	Toluene (mg/kg)	<0.005	<0.005	<0.005
	Ethylbenzene (mg/kg)	<0.005	<0.005	<0.005
	Xylenes (m,p,o) (mg/kg)	<0.005	<0.005	<0.005

Analysis Certified By

Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
Phone: 419/223-1362 • Fax: 419/227-379

508 Bissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-164

ALLOWAY TESTING

1325 NORTH COLE St. LIMA, OHIO 45801
PH: (419) 223-1362

508 BISSMAN CT. MANSFIELD, OHIO 44906
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23701 Sample ID: Tank Bottom S. 15'
Lab # 23702 Sample ID: Tank Bottom N. 15'
Lab # 23703 Sample ID: SP 8'

Client: Musick's Service Station Maint

Lab #:		23701	23702	23703
Code	Parameter (Units)			
TPH	Total Petroleum Hydrocarbon (mg/kg)	42.2	32.4	65.6

TPH Method Numbers: 9071, 413.1
Reference: SW 846, EPA-600

Analysis Approved By Jacqueline A. Lewis

Member - Area Chamber of Commerce

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab# 23704 Sample ID: N. Sidewall 8-10'

Lab# 23705 Sample ID: East Plat 10'

Lab# 23706 Sample ID: Background 1-3'

Client: Musick's Service Station

Lab#:		23704	23705	23706
Code	Parameter (Units)			
	Benzene (mg/kg)	<0.005	<0.005	<0.005
	Toluene (mg/kg)	<0.005	<0.005	<0.005
	Ethylbenzene (mg/kg)	<0.005	<0.005	<0.005
	Xylenes (m,p,o) (mg/kg)	<0.005	<0.005	<0.005

Analysis Certified By Mary Ellen
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
Phone: 419/223-1362 • Fax: 419/227-379
506 Bissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-164

ALLOWAY TESTING:

1325 NORTH COLE St. LIMA, OHIO 45801
PH: (419) 223-1362

503 BISSMAN CT. MANSFIELD, OHIO 44906
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23704 Sample ID: N. Sidewall 8-10'
Lab # 23705 Sample ID: East Plot 10'
Lab # 23706 Sample ID: Background 1-3' Under Lot

Client: Musick's Service Station Maint

Lab #:		23704	23705	23706
Code	Parameter (Units)			
TPH	Total Petroleum Hydrocarbon (mg/kg)	66.8	59.1	125.

Method Numbers: 9071, 418.1
Reference: Sw 846, EPA-600

Analysis Approved By Jacqueline A. Lawson

Member - Area Chamber of Commerce

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/01/91

Musick's Service Station

Rt. 12, 324 Lewis Road
Mansfield OH 44903

Project: Bender & Loudon
Data samples received: 4/18/91

Lab# 23707 Sample ID: E. Trench Under Sanitary

Lab# 23708 Sample ID: Background 300' N. Upgradient

Client: Musick's Service Station

Lab:#		23707	23708
Code	Parameter (Units)		
	Benzene (mg/kg)	< 0.005	< 0.005
	Toluene (mg/kg)	< 0.005	< 0.005
	Ethylbenzene (mg/kg)	< 0.005	< 0.005
	Xylenes (m,p,o) (mg/kg)	< 0.005	< 0.005

Analysis Certified By

Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45801
Phone: 419/223-1362 • Fax: 419/227-3791

508 Bissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-1644

ALLOWAY TESTING

1325 NORTH COLE St. LIMA, OHIO 45801
PH: (419) 223-1362

508 BISSMAN CT. MANSFIELD, OHIO 44906
PH: (419) 525-1644

4/22/91

Musick's Service Station Maint
Julie Kabbaz
Rt. 12, 324 Lewis Rd.
Mansfield OH 44903

Project: Bender & Loudon
Date samples received: 4/18/91

Lab # 23707 Sample ID: E. Trench Under Sanitary
Lab # 23708 Sample ID: Background 300' N. Upgradient

Client: Musick's Service Station Maint

Lab #:		23707	23708
Code	Parameter (Units)		
TPH	Total Petroleum Hydrocarbon (mg/kg)	46.8	42.5

TPH Method Numbers: 9071, 418.1
Reference: SW 846, EPA-600

Analysis Approved By Jacqueline A. Hauser

Alloway
ENVIRONMENTAL TESTING SERVICES

5/10/91

Musick's Service Station Maint
Julie Kabbaz
Rt 12, 324 Lewis Rd.
Mansfield OH 44903

Project: B & L
Date sample received: 4/29/91

Lab # 23918 Sample ID: GW

Client: Musick's Service Station Maint

Lab #:		23918
Code	Parameter (Units)	
TPH	Total Petroleum Hydrocarbon (mg/l)	1.02

TPH Method Numbers: 9071, 418.1
Reference: SW 846, EPA-600 .

Analysis Certified By Jacqueline A. Kruse
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

Alloway
ENVIRONMENTAL TESTING SERVICES

5/10/91

Musick's Service Station
Ms. Jul. e Kabbaz
Rt. 12, .24 Lewis Road
Mansfield OH 44903

Project: B&L
Date sample received: 4/29/91

Lab # 23918 Sample ID: GW

Client: Musick's Service Station

Lab #:		23918
Code	Parameter (Units)	
	Benzene (ug/l)	< 2.0
	Toulene (ug/l)	< 2.0
	Ethylbenzene (ug/l)	< 2.0
	Xylenes (m,p,o) (ug/l)	< 2.0

Date Injected: 5/9/91

Analysis Certified By _____
Ohio EPA Certification: Chemical 715, Bacteriological 833

NVLAP Accredited

1101 North Cole St. • Lima, OH 45805
Phone: 419/223-1362 • Fax: 419/227-3792
508 Bissman Ct. • Mansfield, OH 44906
Phone: 419/525-1644 • Fax: 419/525-1644

ALLOWAY TESTING
1525 N. Gold Circle
Lima, Ohio 45801-3415
508 Bigsman Ct.
Mansfield, Ohio 44906

CHAIN-OF-CUSTODY RECORD

Project Name: B & L Bender Loudon
Project Contact: Musick's
Sampler (Signature): Greg A Pohl

	Location & Sample Description	Date	Time	Sample Type: Water Comp.	Water Grab	Soil	No. of Containers	Analysis Required
1	15' Tank Bottom South	4-17	1330	Core		X	1	BTEX, TPH
2	15' Tank Bottom North	4-17	1340	Core		X	1	BTEX, TPH
3	SP - 8'	4-18	1230	Core		X	1	BTEX, TPH
4	N. Sidewall @ 8-10'	4-18	1250	Core		X	1	BTEX, TPH
5	EAST FLAT @ 10'	4-18	1240	Core		X	1	BTEX, TPH
6	BACKGROUND 1-3' under Lot	4-18	1300	Core		X	1	BTEX, TPH
7	EAST TRENCH under Sanitary	4-18	1340	Core		X	1	BTEX, TPH
8	BACKGROUND 300' N. upgradient	4-18	1400	Core		X	1	BTEX, TPH
9								⇒ Rush, on TPH only; call Julie Kabbaz as soon as results are possible
10								

	Item Number	Relinquished by (Signature)	Received by (Signature)	Date	Time	Remarks
1		Greg A Pohl	Donna Moore	4/18	2:15	
2		Donna Moore				
3						
4						
5						
Method of Shipment			Received for Laboratory by (Signature): Jordan Stanko	4-18-91	2:45 pm	

Lab Use Only — Indicate Container Type: (P) Plastic (G) Glass

	Unp.	HNO3	H2SO4	HCL	NAOH	H3PO4/CUSO4	NAOH/Zinc Acetate
Composite							
Grab							

(Item No. - Container Type - No. of Containers)

Invoice to: Musick's Service Station Maint.
Rt. 12-324 Lonis road
Mansfield, Ohio 44903

ALLOWAY TESTING
1325 N. Cole Street
Lima, Ohio 45801-3415
503 Bissman Ct.
Mansfield, Ohio 44906

CHAIN-OF-CUSTODY RECORD

Project Name: B&H
Project Contact: Julie Kabbaz
Sampler (Signature): Clayman Musick

	Location & Sample Description	Date	Time	Sample Type: Water Comp.	Water Grab	Soil	No. Of Containers	Analysis Required
1	GW Sample. Tank exc.	4/29/91	2:15 pm		✓		5	TPH, BTEX low level
2								
3								
4								
5								
6								
7								
8								
9								
10								

	Item Number	Relinquished by (Signature)	Received by (Signature)	Date	Time	Remarks
1	1	Clayman Musick	Julie Kabbaz	4/29/91	2:30 PM	
2						
3						
4						
5						
Method of Shipment			Received for Laboratory by (Signature): Susan Stevens	4-29-91	2:50 PM	

Lab Use Only — Indicate Container Type: (P) Plastic (G) Glass

	Unp.	HNO3	H2SO4	HCL	NAOH	H3PO4/CUSO4	NAOH/Zinc Acetate
Composite							
Grab							

SPRINGFIELD TOWNSHIP FIRE DEPARTMENT
Fire Prevention Bureau
P.O. Box 133 325 Shelby-Ontario Rd.
Ontario, Ohio 44862
(419) 529-4416

FIRE PREVENTION APPLICATION-PERMIT

© 1978 BOCA International

APPLICATION DATE	DATE ISSUED	EXPIRATION DATE	PERMIT NUMBER
June 8, 1989	June 8, 1989	June 18, 1989	89-27

APPLICANT	ADDRESS		PHONE NUMBER
Musicks Maintenance Inc.	324 Lewis Rd.	Mansfield, OH	529-3606

THE ABOVE NAMED INDIVIDUAL/BUSINESS HEREBY MAKES APPLICATION TO CONDUCT THE FOLLOWING BUSINESS AT THE ABOVE LOCATION

Removal of underground storage tanks at

Bender Loudon Motor Freight Inc., 815 Beer Rd.

AND FOR THE KEEPING, STORAGE, OCCUPANCY, USE, SALE, HANDLING, OR MANUFACTURE OF THE FOLLOWING: (STATE QUANTITIES NORMALLY TO BE STORED, HOW STORED, OR USED, GIVING AMOUNTS FOR EACH KIND OR CATEGORY.)

IN ACCORDANCE WITH SECTION 103.0 (PERMITS) AND SECTION(S) Ohio Fire Code F-2800.2 OF THE FIRE PREVENTION CODE OF THIS JURISDICTION.

APPROVED BY FIRE OFFICIAL	DATE	FEE PAID
Tom Young	6/8/89	$10.00

THIS PERMIT MUST BE POSTED ON THE ABOVE MENTIONED PREMISES

CHEM-TECH
Consultants

Chemical & Environmental Engineering

INC # 7-9417

RECEIVED
OCT 18 1991
STATE FIRE MARSHAL
BUSTR

FAX COVER SHEET

DATE: October 18, 1991

TO: SFMO - BUSIR

ATTN: Charlie Zepp

SUBJECT: Bender Loudon - Mansfield, Ohio, Richland County

FROM: Craig A. Postel

OUR FAX (419) -- 886-4062
PHONE (419) -- 886-4375

WE ARE TRANSMITTING _____ PAGE(S) (INCLUDING THIS PAGE). IF YOU DON'T RECEIVE ALL THE PAGES, OR IF YOU HAVE ANY QUESTIONS, PLEASE CALL.

COMMENTS: _____

CHEM-TECH CONSULTANTS
559 STATE ROUTE 97
BELLVILLE, OHIO 44813

CHEM-TECH
CONSULTANTS INC.
559 Route 97
Bellville, Ohio 44813
(419)886-4375
FAX (419)886-4062

October 18, 1991

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
7510 E. Main Street
P.O. Box 525
Reynoldsburg, OH 43068-3395

Attn: Charles E. Zepp

RE: Bender & Loudon, Mansfield, Ohio, Richland County (BL\TM\LTR)

Dear Charlie:

Per your request, Chem-Tech Consultants, Inc. is providing the information requested for Bender & Loudon in Mansfield, Ohio.

Attached are the lab procedures, field techniques, and PID calibrations that were utilized for Bender & Loudon. The disposition of the soil is a non-hazardous determination and still remains on-site pending disposal or on-site treatment. Upon removal the soil was placed on Visqueen and covered.

I hope this will satisfy the remaining information needed to generate a no further action letter.

Sincerely,

CHEM-TECH CONSULTANTS, INC.

Craig A. Postel (kw)

Craig A. Postel

CAP:kw

Enclosure

Alloway
ENVIRONMENTAL TESTING SERVICES

October 17, 1991

Mr. Craig Postel
Chem-Tech Consultants
559 St. Rt. 97
Bellville, OH 44813

Dear Mr. Postel:

All samples submitted by Musick's Service Station Maintenance for the project B & L/Bender & Loudon were analyzed according to the following method numbers:

Total Petroleum Hydrocarbons	9071, 418.1; SW-846, EPA-600
BTEX	8020/5030 7.3.3.1 SW-846
Lead, EP Toxicity	1310 (extraction) and 7420 SW-846
Cadmium, Total	7130 SW-846
Lead, Total	7420 SW-846
Flash Point	Closed Cup 1010 SW-846
Paint Filter Test	9095 SW-846
Volatile Organic Compounds	8010/8020 SW-846

If you have any questions or need further information, please feel free to call.

Sincerely,

Jacqueline A. Sauer

Jacqueline A. Sauer
Laboratory Manager

JAS/dr

CTL ENGINEERING, INC.
CONSULTING ENGINEERS
TESTING · INSPECTION
LABORATORY SERVICES
2860 Fisher Road • P.O. Box 44469 • Columbus, Ohio 43204
Phone 614-276-8123 • Fax 614-276-6377

Report on Methodology of Analysis

October 17, 1991

Project No.: 89-31128

Client: Chem Tech Consultants
559 St. Rt. 97 East
Bellville, Ohio 44813 - Attn: Craig Postel

P. O. No.:

Identification: Project report submitted October 6, 1989.

Test Method for BTEX - Method 8020 from US EPA Document SW 846.

Test Methods for TPH - Methods 9071 and 418.1 from US EPA Document SW 846 and US EPA Document 600/4-78-020.

Respectfully Submitted,

Stephen Rhodes, Chemist

Field Instrument Calibration BENDER / LOUDON PROTOCOL

HNU MOD HW-101

The unit is calibrated twice daily:

1. Prior to job use
2. Post-job use

The analyzer is calibrated by use of a cylinder and a regulator. The cylinder contains a calibration gas consisting of a mixture of isobutylene in zero air.

The regulator sets and controls the flow rate of gas to the analyzer at a value preset at the factory. The output of the regulator is connected to the analyzer by a short, clean section of flexible tubing.

The meter is then checked for battery strength, re-zero, adjustment to span of calibration media.

The analyzer is completely torn down and maintained periodically as a deviation from the calibration span indicates the necessity.

Typical gases that will be ionized by the analyzer:

Gas	Ionization Potential (eV)
Xylene	8.56
Toluene	8.82
Cyclohexanone	9.14
Benzene	9.25
Isobutylene	9.44
Trichloroethylene	9.45
Methyl ethyl ketone	9.53
Tetrahydrofuran	9.54
Acetone	9.69
Vinyl chloride	10.00
Ammonia	10.15
Isopropanol	10.17
Hexane	10.18
Ethanol	10.48

Calibration: 40 ppm at 9.8 Span Setting
Media: Isobutylene
Lamp: 10.2 eV

Field Screening Procedures

Two scans are generally noted. The first is an inexcavation screening which involves exposing fresh soil screening. These readings are logged or tabulated as required. The second screening involves actual sample head space. In extreme cold temperatures, the sample may have to be warmed in order to receive valid readings. Then a duplicate sample is then taken into appropriate containers and delivered for the lab analysis.

Sample Collection Procedures

BENDER / LOUDON PROTOCOL

Excavation sampling was performed utilizing a stainless steel core sampling tool (thin-walled tube sampler). Four to six inches of earth was removed prior to the sampling event. The collected sample was placed into glass jars with Teflon lids and refrigerated prior to delivery to the laboratory.

Core samples were collected into a stainless shelby tube sampler, extracted into glass jars with Teflon lids and refrigerated.

All sampling equipment was decontaminated between use, applying a three-rinse technique. Proper chain-of-custody procedures were followed in the transfer of the samples.

Groundwater Collection Procedure

Groundwater samples were obtained through a 4" PVC environmental well screen within an excavated area around the tank cavity. A clean glass jar was used to collect the water and transfered to 40 ml septum sealed vials and one quart glass jars with Teflon lids. Samples were refrigerated following the collection. Proper chain-of-custody procedures were followed in the transference of the sample. Groundwater samples were under the direction of Kelly Gill of the State Fire Marshal's office.

Ohio Department of Commerce

George V. Voinovich, Governor

Division of State Fire Marshal • Bureau of Underground Storage Tank Regulations
7510 E. Main St., P.O. Box 525 • Reynoldsburg, OH 43068-3395
(614) 752-7938 or 1-800-686-2878 (within Ohio only)

Nancy S. Chiles, Director

October 18, 1991

Mr. Bob Bender
Band L. Reality
1100 Jenkins Blvd.
Akron, Ohio 44306

RE: Bender and Louden Motor Freight Terminal
815 North Boer Road
Ontario, Ohio
Richland County
Incident #709417-00

Dear Mr. Bender:

The State Fire Marshal, Bureau of Underground Storage Tank Regulations, (SFM, BUSTR) has received all required information regarding the site investigation at the aforementioned location. Our review of the analytical results and associated information indicates that you have met the current site investigation requirements. Regarding corrective action activities at this site, BUSTR is not requiring any further action at this time. However, information provided to BUSTR indicates that the contaminated soil excavated during the UST closure, which is not regulated by SFM, BUSTR, has not been disposed of in accordance with the Ohio Environmental Protection Agency (OEPA) requirements. We have notified OEPA, Northwest District Office, Division of Solid and Infectious Waste of this matter by sending them a copy of this letter.

Due to information potentially not discovered or revealed, nothing in this letter should be interpreted as a guarantee or warrantee that no problems exist at the aforementioned location. In addition, this letter does not release the responsible party from future responsibility and liability under sections 3737.88 through 3737.89 of the Ohio Revised Code and other state laws and regulations or under the Federal Clean Water Act, Resource Conservation and Recovery Act, or Comprehensive Environmental Response, Compensation, and Liability Act for remedying conditions resulting from any release of contaminants to the environment.

If you have any questions about this determination, you can telephone me at (614) 752-7938.

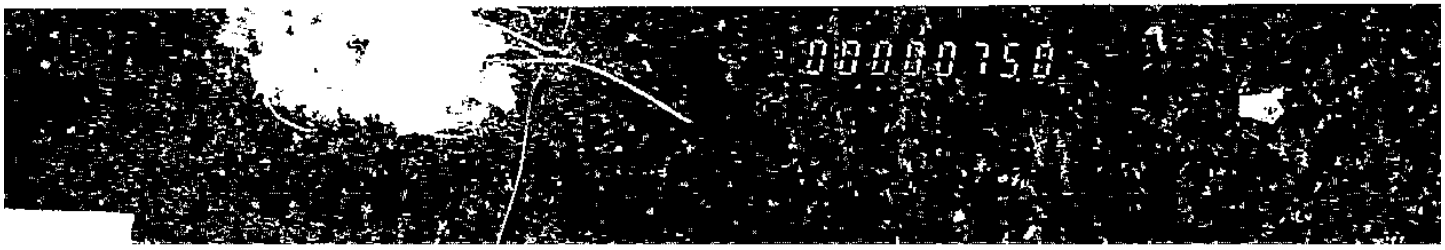
Sincerely,

Charles E. Zepp
Site Coordinator
Bureau of Underground
Storage Tank Regulations

CEZ:kkm

cc: File #709417-00
Irene North, OEPA, Division of Solid and Infectious Waste

COM 5008



INC # 709417

CHEM TECH
Consultants INC.
559 State Route 97
Bellville, Ohio 44813
(419)886-4375
FAX (419)886-4062

RECEIVED
1991 OCT 21 A 9:23
STATE FIRE MARSHAL
BUSTR

October 18, 1991

Ohio Department of Commerce
Division of State Fire Marshal
Bureau of Underground Storage Tank Regulations
7510 E. Main Street
P.O. Box 525
Reynoldsburg, OH 43068-3395

Attn: Charles E. Zepp

RE: Bender & Loudon, Mansfield, Ohio, Richland County (BL\TM\LTR)

Dear Charlie:

Per your request, Chem-Tech Consultants, Inc. is providing the information requested for Bender & Loudon in Mansfield, Ohio.

Attached are the lab procedures, field techniques, and PID calibrations that were utilized for Bender & Loudon. The disposition of the soil is a non-hazardous determination and still remains on-site pending disposal or on-site treatment. Upon removal the soil was placed on Visqueen and covered.

I hope this will satisfy the remaining information needed to generate a no further action letter.

Sincerely,

CHEM-TECH CONSULTANTS, INC.

Craig A. Postel

CAP:kw

Enclosure

Alloway
ENVIRONMENTAL TESTING SERVICES

October 17, 1991

Mr. Craig Postel
Chem-Tech Consultants
559 St. Rt. 97
Bellville, OH 44813

Dear Mr. Postel:

All samples submitted by Musick's Service Station Maintenance for the project B & L/Bender & Loudon were analyzed according to the following method numbers:

Total Petroleum Hydrocarbons	9071, 418.1; SW-846, EPA-600
BTEX	8020/5030 7.3.3.1 SW-846
Lead, EP Toxicity	1310 (extraction) and 7420 SW-846
Cadmium, Total	7130 SW-846
Lead, Total	7420 SW-846
Flash Point	Closed Cup 1010 SW-846
Paint Filter Test	9095 SW-846
Volatile Organic Compounds	8010/8020 SW-846

If you have any questions or need further information, please feel free to call.

Sincerely,

Jacqueline A. Sauer

Jacqueline A. Sauer
Laboratory Manager

JAS/dr

CTL ENGINEERING, INC.
CONSULTING ENGINEERS
HAZMAT · INDUSTRIAL
LABORATORY SERVICES
2860 Fisher Road • P.O. Box 44469 • Columbus, Ohio 43204
Phone 614-276-8123 • Fax 614-276-6377

Report on Methodology of Analysis

Project No.: 89-31128 October 17, 1991

Client: Chem Tech Consultants
559 St. Rt. 97 East
Bellville, Ohio 44813 - Attn: Craig Postel

P. O. No.:

Identification: Project report submitted October 6, 1989.

Test Method for BTEX	-	Method 8020 from US EPA Document SW 846.
Test Methods for TPH	-	Methods 9071 and 418.1 from US EPA Document SW 846 and US EPA Document 600/4-78-020.

Respectfully Submitted,

Stephen [illegible], Chemist

Field Instrument Calibration BENDER / LOUDON PROTOCOL

HNU MOD HW-101

The unit is calibrated twice daily:

1. Prior to job use
2. Post-job use

The analyzer is calibrated by use of a cylinder and a regulator. The cylinder contains a calibration gas consisting of a mixture of isobutylene in zero air.

The regulator sets and controls the flow rate of gas to the analyzer at a value preset at the factory. The output of the regulator is connected to the analyzer by a short, clean section of flexible tubing.

The meter is then checked for battery strength, re-zero, adjustment to span of calibration media.

The analyzer is completely torn down and maintained periodically as a deviation from the calibration span indicates the necessity.

Typical gases that will be ionized by the analyzer:

Gas	Ionization Potential (eV)
Xyiene	8.56
Toluene	8.82
Cyclohexanone	9.14
Benzene	9.25
Isobutylene	9.44
Trichloroethylene	9.45
Methyl ethyl ketone	9.53
Tetrahydrofuran	9.54
Acetone	9.69
Vinyl chloride	10.00
Ammonia	10.15
Isopropanol	10.17
Hexane	10.18
Ethanol	10.48

Calibration: 40 ppm at 9.8 Span Setting
Media: Isobutylene
Lamp: 10.2 eV

Field Screening Procedures

Two scans are generally noted. The first is an inexcavation screening which involves exposing fresh soil screening. These readings are logged or tabulated as required. The second screening involves actual sample head space. In extreme cold temperatures, the sample may have to be warmed in order to receive valid readings. Then a duplicate sample is then taken into appropriate containers and delivered for the lab analysis.

Sample Collection Procedures

BENDER / LOUDON PROTOCOL

Excavation sampling was performed utilizing a stainless steel core sampling tool (thin-walled tube sampler). Four to six inches of earth was removed prior to the sampling event. The collected sample was placed into glass jars with Teflon lids and refrigerated prior to delivery to the laboratory.

Core samples were collected into a stainless shelby tube sampler, extracted into glass jars with Teflon lids and refrigerated.

All sampling equipment was decontaminated between use, applying a three-rinse technique. Proper chain-of-custody procedures were followed in the transfer of the samples.

Groundwater Collection Procedure

Groundwater samples were obtained through a 4" PVC environmental well screen within an excavated area around the tank cavity. A clean glass jar was used to collect the water and transfered to 40 ml septum sealed vials and one quart glass jars with Teflon lids. Samples were refrigerated following the collection. Proper chain-of-custody procedures were followed in the transference of the sample. Groundwater samples were under the direction of Kelly Gill of the State Fire Marshal's office.

CORRECTIVE ACTION ASSESSMENT REVIEW
CAAR Attachment

Facility Name: Bender and Lowell Incident #: 709417
Completed By: ZCPP Date: _____

1. Date of Release: 6/7/99
2. Date Release Reported: _____
3. Date SFM issued letter: CW June 13, 1999
4. Date Report Received: _____

ORDERS:
1. Date issued: _____

Compliance Deadlines: SI _____ SA _____ FPR _____ CAP _____

UST System(s) Information: (refer to Key below)

UST NO.	AGE (yrs)	CAPACITY (gals)	-CONST.- MATERIAL	SUBSTANCE STORED	TANK STATUS	PIPING STATUS	DISPENSER STATUS
1	7	8,000	STEEL	DIESEL	R	R	R
2	7	8,000	STEEL	DIESEL	R	R	R
3							
4							
5							
6							
7							

KEY:
STATUS: 1 - In Use, 2 - Removed, 3 - Out of Service, 4 - Unknown, 5 - Problem Flagged, 6 - Not correctly removed

If status = 4 give brief description

CAR CHECKLIST

TASK DESCRIPTION:	ADEQUATE	INADEQUATE	NOT INCLUDED
Field Screening:			
1. Visual Site Evaluation	✓		
2. Field Screening Conducted	✓		
3. Field Instrument Calibration			✓
4. Screening Methodology Described			✓
5. Screening Sample Locations Indicated	✓		

Supplemental Information:

FIELD SCREENING NOTES: (Task Description Nos. 1-5) (if inadequate)

Description of Screening Methodology: (incl. instrument used, container used, calibration method, etc.)

EQUIPMENT USED WAS MICROTIP. FIELD SCREENING BY HEADSPACE NOT USED
ON THESE " " ENCANTO NOT PURGED

Comments: _____

SAMPLES COLLECTED FOR LABORATORY ANALYSIS:	ADEQUATE	INADEQUATE	NOT INCLUDED
6. Representative number of Samples Collected	✓		
7. Samples Analyzed by Laboratory	✓		
8. Name, Address, Phone # of Lab Included	✓		
9. Appropriate Test Methods Used			✓
10. Samples Analyzed Within Holding Time (30 days - tph, 14 days - BTEX)	✓		
11. Sampling Methodology Described			✓
12. Sample Locations Provided	✓		
13. Decontamination Procedures Described			✓
14. Appropriate detection Limits Used	✓		
15. Chain-of-Custody Form(s) Submitted	✓		
16. Laboratory Report(s) Submitted	✓		
17. Sample Preservation Technique Described			✓

SAMPLES COLLECTED FOR LABORATORY ANALYSIS: (Task Description #s 6-17)

Date of Sampling Event: _____ Collected by: _____
No. of Samples Collected: 9 No. of Samples Analyzed: 9
Test Methods Used: 418.1 & 8020 METHOD NOT INDICATED

Description of Sampling Protocol: (incl. tools, decontamination procedures, containers, preservatives, background sampling, technique employed, etc.) _____
SAMPLE TOOLS NOT MENTIONED, DECON?, CONTAINERS?, PRESERVATIVE?

How Sample Locations Were Identified: ✓ Site Map
___ In Writing

Comments: _____

H_2O SAMPLE COLLECTION METHOD.

LOCATION OF SAMPLES COLLECTED DURING UST REMOVAL:

Yes	No	N/A	
___	___	___	Where strong odors/discoloration existed
___	___	___	From UST excavation floor at both ends of tank(s)
___	___	___	Under pump island or dispenser on supply line side
___	___	___	Piping run at 20 ft. intervals and where leaks were known to have occurred.
___	___	___	Piping run joints and unions
✓	___	___	Other: FIELD SCREENING LOCATIONS

(Indicate approximate depth of samples.)

LOCATION OF SAMPLES COLLECTED DURING UST ABANDONMENT:

_____ Through holes cut in tank bottom near end of tank(s), (if tank(s) could be entered)

_____ Soil borings within 3 ft. of each end of tank(s), (if tank(s) could not be entered)

_____ Soil borings along piping runs and pump island.

_____ Other: _____

SUMMARY OF ANALYTICAL RESULTS:

ANALYTE	SOILS * Range of Concentration Levels	WATER * Range of Concentration Levels
Benzene	ND	ND
Toluene	ND	ND
Ethylbenzene	ND	ND
Xylene(s)	ND	ND
Total Petroleum Hydrocarbons (ppm)	650	102
Lead		

DISPOSITION OF WASTES:

	ADEQUATE	INADEQUATE	NOT INCLUDED
18. Disposition of Water from Excavation . . .			✓
19. Disposition of Water from Tank(s) . . .			
20. Disposition of Sludge from Tank(s)			
21. Disposition of Contaminated Soils			✓
22. Proper Storage of Excavated Soils	✓		
23. Permit to Remove Tank System			
a. _____ local b. _____ state			

$2,000

SITE CHECK

Date of report _____
Date of tank tightness test _____ Pass _____ Fail _____
Date tank tightness results were submitted _____
Was there an environmental impact? Yes _____ No _____
Will UST system be removed? Yes _____ No _____
Date site check report received _____

Site Check Sampling and Analysis

SAMPLES COLLECTED FOR LABORATORY ANALYSIS:	ADEQUATE	INADEQUATE	NOT INCLUDED
1. Representative number of Samples Collected			
2. Samples Analyzed by Laboratory			
3. Name, Address, Phone # of Lab included .			
4. Appropriate Test Methods Used			
5. Samples Analyzed Within Holding Time . . . (30 days - tph, 14 days - BTEX)			
6. Sampling Methodology Described			
7. Sample Locations Provided			
8. Decontamination Procedures Described . . .			
9. Appropriate detection Limits Used			
10. Chain-of-Custody Form(s) Submitted			
11. Laboratory Report(s) Submitted			
12. Sample Preservation Technique Described .			

SAMPLES COLLECTED FOR LABORATORY ANALYSIS: (Task Description #s 1-12)

Date of Sampling Event: _____ Collected by: _____
No. of Samples Collected: _____ No. of Samples Analyzed: _____
Test Methods Used: _____

Description of Sampling Protocol: (incl. tools, decontamination procedures, containers, preservatives, background sampling technique employed, etc.)

_____
_____
_____
_____
_____
_____

How Sample Locations Were Identified: ____ Site Map
____ In Writing

Comments: _____
_____
_____
_____

Site Investigation:

	ADEQUATE	INADEQUATE	NOT INCLUDED
1. Nature and estimated quantity of release .			
2. Characteristics of the surrounding land uses and local population			
3. Well logs within 2000 feet			
4. Representative soil samples			
5. Representative groundwater samples			
6. Subsurface cross section map			
7 Maps showing all water line gas mains, etc (man made conduits)			

Comments: _____

Free Product/Dissolved Phase Investigations

Was there free product discovered? Were dissolved phase hydrocarbons discovered? Have private wells been affected?

SUMMARY OF ANALYTICAL RESULTS:

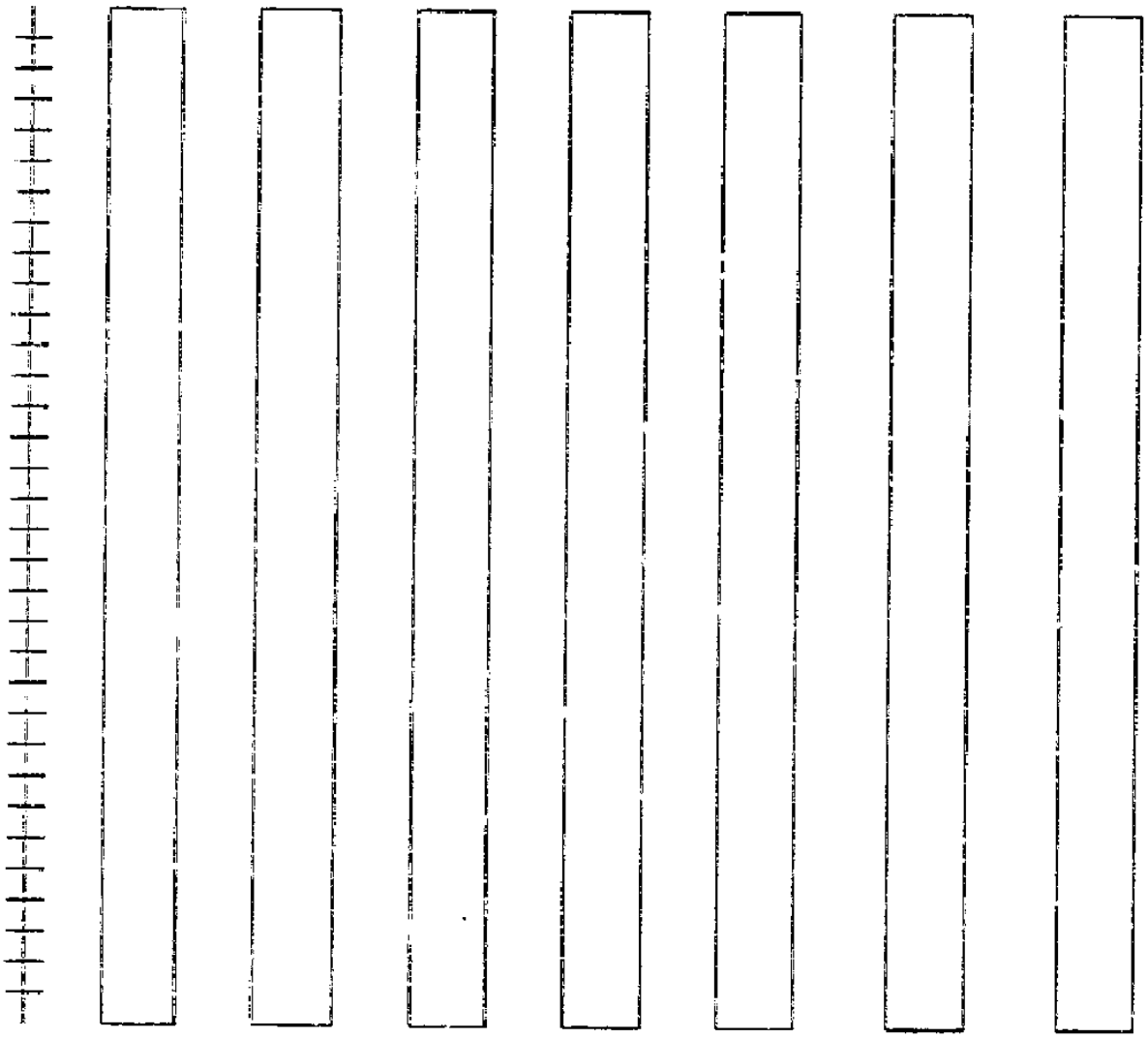
ANALYTE	SOILS * Range of Concentration Levels	WATER * Range of Concentration Levels
Benzene		
Toluene		
Ethylbenzene		
Xylene(s)		
Total Petroleum Hydrocarbons (ppm)		
Lead		

GROUNDWATER SAMPLES

FACILITY NAME: _____ INCIDENT #_____
COMPLETED BY: _____ DATE: _____

MW NUMBER
SAMPLE DATE

DEPTH



↓ - Indicates depth to groundwater ↔ - Indicates screened interval

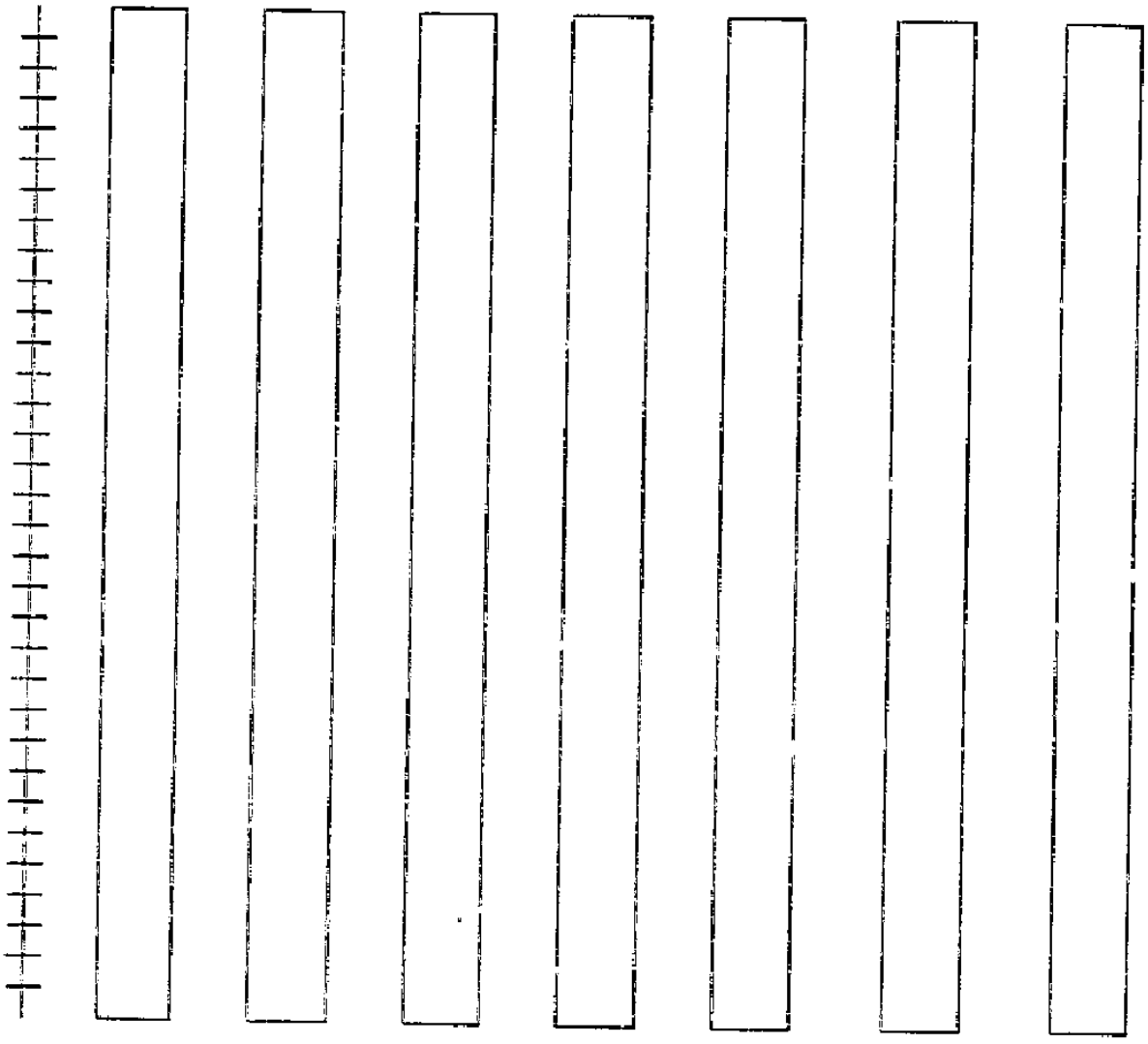
10		(ppb ppm)
5	Sample interval	B (ppb)
100		T ↓
150		E
200		X

SOIL SAMPLES

FACILITY NAME: _____ INCIDENT #_____
COMPLETED BY: _____ DATE: _____

BORING NUMBER
SAMPLE DATE

DEPTH



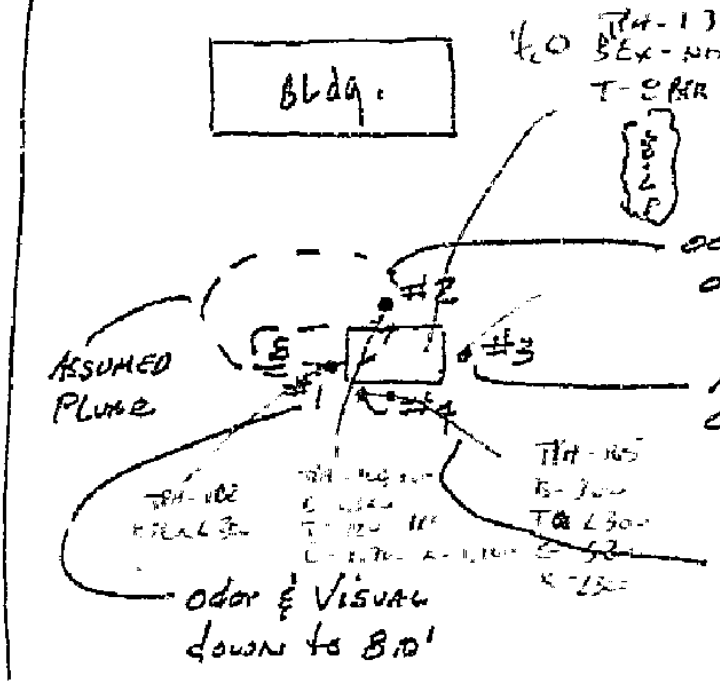
↓ - Indicates depth to groundwater

♦ - Indicates screened interval

10		tph(ppm)
5	Sample interval	B (ppb)
100		T ↓
150		E
200		X

01-30-91
Bender Loudon

IN # 709417-00



Augered to 8.0' Deep where An Auger Refusal was Encountered due to Rock.

All equip was deconed using 3 Rinse technique 1-Soap 2-DI Rinse.

on site 0910

SITE LISTING UPDATE FORM

EXISTING INCIDENT #: |__|__|__|__|__|__|__| - |__|__| - |__|__|__|__| UPDATE.001 REV 8/89

FACILITY NAME: _____ NEW FACILITY INFO? ____ YES ____ NO
(Update on back)

[1] REASON FOR LISTING UPDATE

___ [1] Written report/results received from owner/operator.
___ [2] Verbal report/results received from owner/operator.
___ [3] Written report received from BUSTR contractor.
___ [4] Information collected from BUSTR field examination/inspection.
___ [5] Change in site coordinator/contractor assignment.
___ [6] Change/delete existing incident number - explain change in remarks section [5].
___ [7] Create new incident number for additional suspected facility/location.
___ [8] Orders issued.
___ [9] Other: _____

[2] NEW SITE LISTING DATA

INCIDENT #: |__|__|__|__|__|__|__| - |__|__| - |__|__|__|__|
REPORT NUMBER FAC TRKG# SPRC

EMERGENCY RESPONSE: ___ YES ___ NO BY: ___ FM (_____) ___ OEPA ___ USEPA

STATUS: ___ RPT ___ SUS ___ DIS ___ CON ___ ICA ___ ICR ___ ICC ___ SAS ___ SAC ___ CAS ___ CAP ___ NFA

PRIORITY: ___ 1* ___ 2 ___ 3 ___ 4 ___ 5

CLASSIFICATION: ___ A ___ B ___ C ___ D LTF ELIGIBILITY: ___ YES (1) ___ NO (2)

SITE COORDINATOR: _____ CONTRACTOR: _____ WORK ORDER: _____

* [3] SITE SUMMARY (UPDATE FOR ALL PRIORITY 1 SITES)

(First sentence - Why is it a 1? Second sentence - Who is doing what at this time)

[4] NEW EXCEPTION REPORT DATA

___ [1] State plans to obligate over $100,000 at a site.
___ [2] State actually obligated over $100,000 at a site (cumulative expenses exceeded $100,000 this quarter).
___ [3] State plans to use innovative or experimental technology at the site.
___ [4] State plans to provide permanent alternative drinking water supply.
___ [5] State plans to permanently relocate residents.
___ [6] State reached/received cost recovery settlement; amount: _____.

[5] SITE MANAGEMENT REMARKS

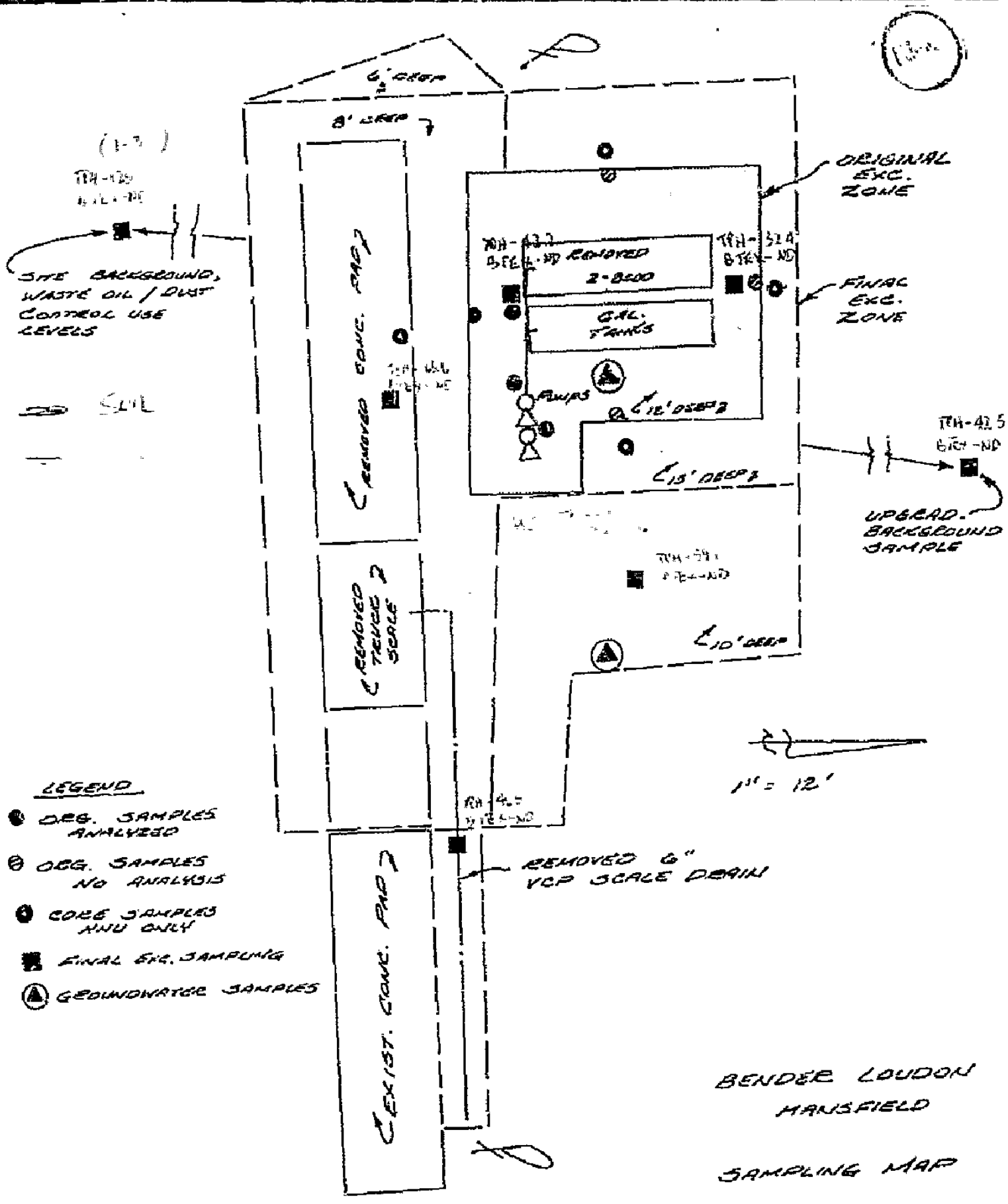
(BUSTR actions needed/taken, reports expected, etc.)

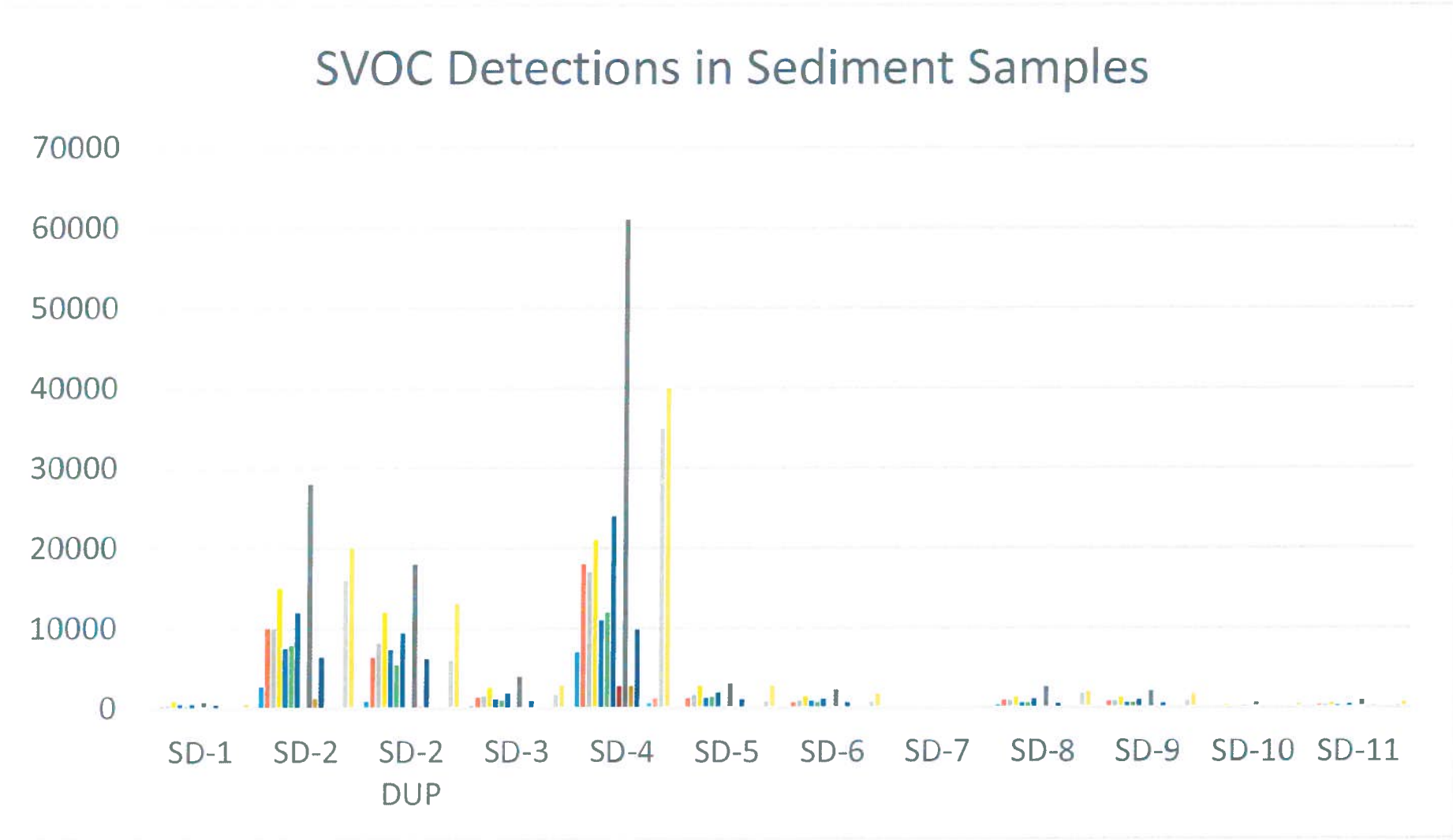
[6] FOLLOW-UP BUSTR ACTIONS/ASSIGNMENT

(For use by supervisor)

UPDATE SUBMITTED BY: _____ DATE: __|__|__

APPROVED: _____ DATE: 7/15/91 ENTERED BY: Steve DATE: Aug 08 1991


6' DEEP
8' DEEP
ORIGINAL EXC. ZONE
TPH-125
SITE BACKGROUND, WASTE OIL / DIST CONTROL USE LEVELS
REMOVED CONC. PAD
2-8000 GAL. TANKS
FINAL EXC. ZONE
AWPS
12' DEEP
15' DEEP
TPH-42.5
UPGRAD. BACKGROUND SAMPLE
REMOVED FENCE POST
10' DEEP
1" = 12'
LEGEND
ORG. SAMPLES ANALYZED
ORG. SAMPLES NO ANALYSIS
CORE SAMPLES ANU ONLY
FINAL EXC. SAMPLING
GEOMONITOR SAMPLES
REMOVED 6" VCP SCALE DRAIN
EXIST. CONC. PAD
BENDER LOUDON MANSFIELD
SAMPLING MAP


SVOC Detections in Sediment Samples
70000
60000
50000
40000
30000
20000
10000
0
SD-1
SD-2
SD-2 DUP
SD-3
SD-4
SD-5
SD-6
SD-7
SD-8
SD-9
SD-10
SD-11

Appendix M

Production Well Location Supporting Documentation

Water Well Log and Drilling Report

Ohio Department of Natural Resources
Division of Water
Phone: 614-265-6740 Fax: 614-265-6767

Well Log Number: 165242

View Image of Original Well Log

ORIGINAL OWNER AND LOCATION

Original Owner Name: *GENERAL MOTORS*
County: *RICHLAND* **Township:** *SPRINGFIELD* **Section Number:** *14*
Address: *30 N SR* **Lot Number:**
City: **State:** *OH* **Zip Code:**
Location Number: *238* **Location Map Year:** *1991* **Location Area:**
Latitude: *40.772078* **Longitude:** *-82.600117*

CONSTRUCTION DETAILS

Borehole Diameter: 1: 2: **Borehole Depth:** 1: *220 ft.* 2: **Depth to Bedrock:**
Casing Diameter: 1: *6 in.* 2: **Casing Length:** 1: *76 ft.* 2: **Casing Thickness:** 1: 2:
Casing Height Above Ground: **Aquifer Type:** *SHALE*
Date of Completion: *6/28/1956* **Total Depth:** *220 ft.* **Well Use:**
Driller's Name: *EICHOF DRILLING CO*
Screen Diameter: **Slot Size:** **Screen Length:**
Type: **Material:**
Set Between:
Gravel Pack Material/Size: **Vol/Wt Used:**
Method of Installation: **Placed:**
Grout Material/Size: **Vol/Wt Used:**
Method of Installation: **Placed**

WELL TEST DETAILS

Static Water Level: *125 ft.* **Test Rate:** **Associated Reports**
Drawdown: *5 ft.* **Test Duration:** *NONE*
COMMENTS: *NONE*

WELL LOG

Formations	From	To
CLAY	0	28
GRAVEL & CLAY	28	72
SANDSTONE	72	218
SHALE	218	220

Printing Tips (opens in new window)

Print This Page Return to County Search

Well log questions - Web site questions - Web policies

Notes:

0.0 0.02 0.04

Note: These locations represent records that have coordinates in the ODNR Well Log Database. Please go to http://ohiodnr.com/water/maptechs/welllogs/appNew/Default.aspx to search additional records.

WELL LOG AND DRILLING REPORT

ORIGINAL

State of Ohio
DEPARTMENT OF NATURAL RESOURCES
Division of Water
Columbus, Ohio

No. 165242

County RICHLAND Township SPRINGFIELD Section of Township or Lot Number 14

Owner GENERAL MOTORS Address MANSFIELD

Location of property RT 30 N

CONSTRUCTION DETAILS

Casing diameter 6" Length of casing 76'

Type of screen ..... Length of screen .....

Type of pump .....

Capacity of pump .....

Depth of pump setting .....

PUMPING TEST

Pumping rate ..... G.P.M. Duration of test ..... hrs.

Drawdown 5' ft. Date .....

Developed capacity .....

Static level—depth to water 125' ft.

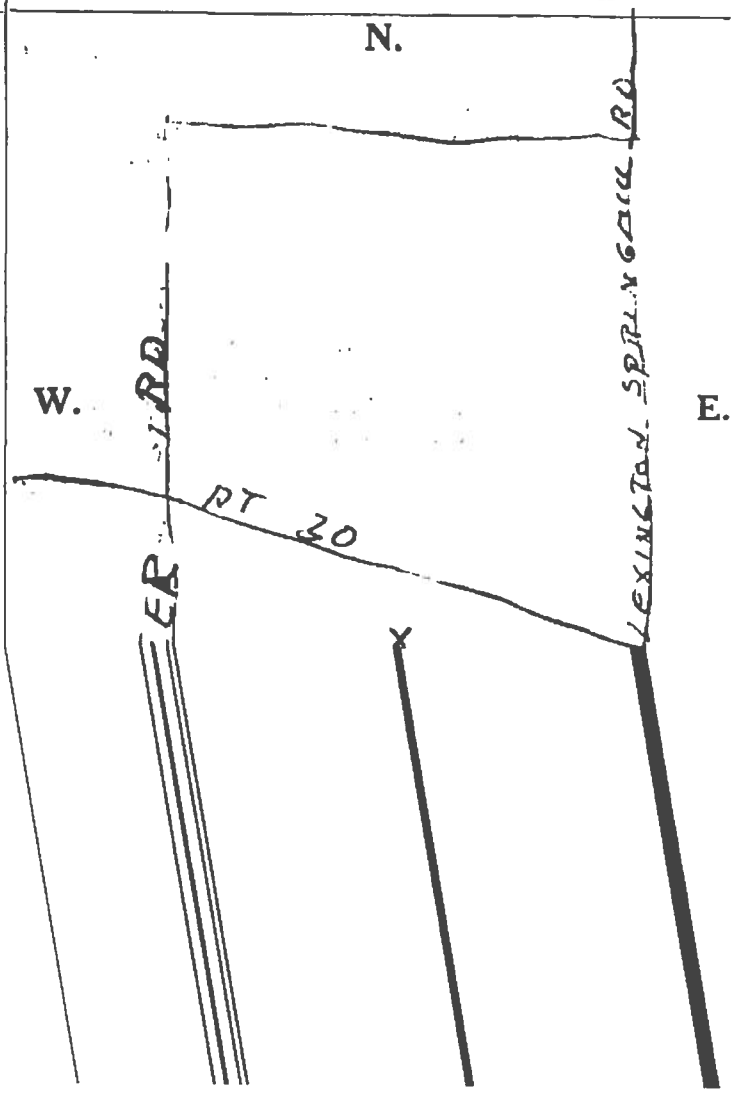
Pump installed by .....

WELL LOG

Formations Sandstone, shale, limestone, gravel and clay	From	To
CLAY	0 Feet	28 Ft.
CLAY AND GRAVEL	28	72
SAND ROCK	72	218
SHALE	218	220

SKETCH SHOWING LOCATION

Locate in reference to numbered State Highways, St. Intersections, County roads, etc.



Appendix N

Geophysical Survey Reports

GEOSEARCHES
Subsurface, Road and Concrete Imaging

May 4, 2011

Mr. Guy Montfort
Ms. Vicky Farmer
Tetra Tech EM Inc.

SUBJECT:
Ground Penetrating Radar survey:-Former GM Stamping Plant, Mansfield Ohio.

Dear Mr. Montfort:

GeoSearches, Inc has completed the Ground Penetrating Radar Imaging survey, April 5 2011 at the Mansfield Stamping Plant. The object of this survey was to clear drill locations and also look at an area south of the facility that was possibly an historical landfill.

The subsurface conditions on the day of the survey were wet. Data lines executed in a North/ South and East /West direction which covered the area to accumulate enough data to draw a conclusion on this area.

The data did show consistency down to the collected depth of 10 feet and did not show any irregularities consistent with landfill conditions.

Best regard's,

Terence M. Hamill
President / Principal Geophysicist

GEOSEARCHES

Subsurface, Road and Concrete Imaging

Concrete Radar Survey
Mansfield Stamping Plant

Prepared For
Tetra Tech EM Inc.
250 W. Court St.
Cincinnati, Ohio 45202

By

TERENCE M. HAMILL

May 4, 2011

GeoSearches, Inc.

200 Industrial Parkway, Suite 6B

Chagrin Falls, Ohio44022

(440) 893-0642

GeoSearches
Subsurface, Road and Concrete Imaging

May 4, 2011

Mr. Guy Montfort
Ms. Vicky Farmer

SUBJECT: Mansfield Stamping Plant

Concrete Radar investigation – Marriage Pit

Dear Mr. Montfort:

GeoSearches, Inc has completed the two part Geophysical survey, April 19, 2011 at the Mansfield Stamping Plant in Mansfield, Ohio.
This Full Report presents the results regarding the targeted concrete radar survey.
If you have further questions please contact GeoSearches, Inc it has been a pleasure working with you on this project.

Best regard's,

Terence M. Hamill
President / Principal Geophysicist
GeoSearches, Inc.

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Section One: Site and Project description

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Part One: Method Page 6

Part Two: Processing Page 7

Part Three: Interpretation and data quality Page 8

Section Two: Discussion, Interpretation

Part One: Discussion Page 10

Part Two: Interpretation Page 10

Section Three: Results

Data Samples Page 12

Results Page 14

Conclusion Page 15

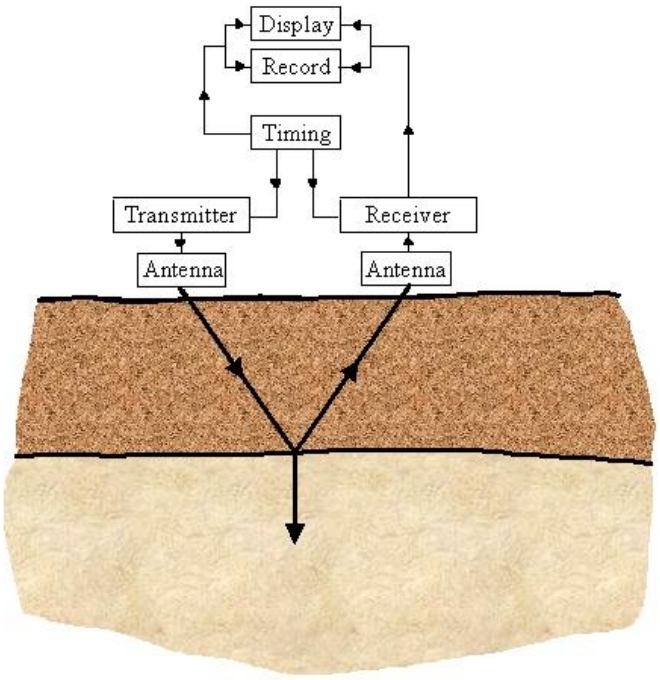
Section One

SITE PROJECT AND DESCRIPTION

Introduction:

GeoSearches, Inc. was retained by Tetra Tech EM to conduct a Concrete Penetrating Radar survey. The object of the survey was to detect if a concrete floor within the "Marriage Pit" area at the Mansfield Stamping Plant had been compromised over the years.

The non-intrusive, subsurface investigation was conducted using Ground Penetrating Radar (GPR). GPR detects subsurface structures by transmitting radio frequency waves into the ground and monitoring the strength and time delay of the reflection. The returning signal can then be evaluated to locate subsurface anomalies. Anomalies can be caused by void spaces, differences in soil/bedrock texture, differences in soil/bedrock moisture content, differences in the sediment compaction, and the presence of subsurface structures such as pipelines.



Part One: Method

The survey was conducted using a Noggin GPR from Sensors and Software, Inc., with a 500MHz antenna. The data were acquired using the common-offset reflection profiling method. The depth of penetration ranged from 0 to 10 feet below the surface

Before fieldwork was started, historical data and detailed diagrams were reviewed to provide background information on the site. A preliminary, straight-line GPR survey was conducted at the beginning of the investigation, establishing the typical response based on the site geology and subsurface structures. The survey was conducted by moving the GPR equipment along the grid lines in two, perpendicular directions. The GPR data were reviewed in the field before processing.

Part Two: Processing

Following the field investigation, the data was processed by applying filters and gains to better define the anomalies of interest. Tools used to process the data and improve image quality included SPIVIEW TOOLS and WIN EKKO software from Sensors and Software, Inc.

Once each data survey is loaded and the grid properly oriented spatially, a short (3-sample) temporal median trim filter is applied to each GPR trace (one gridline) to attenuate noise spikes that degrades the data quality. A residual median filter is then applied to attenuate the wow (Short range GPR signals often possess a low-frequency component, commonly referred to as a "wow" that causes amplitude distortion along an individual trace), this filtering attenuates both the low and high frequency components of the wow, without adding precursors or other artifacts to the wavelet. Time zero determination and datuming is also performed.
The data is then processed by applying amplitude compensation. For each GPR survey line, the rectified-amplitude versus time fall-off is determined. The inverse of this curve is scaled by a multiplier (0.3) to form the gain function. The multiplier is used to slightly reduce the gain function so that anomalously high amplitude values are not clipped after amplitude compensation.

Part Three: Interpretation and data quality

After completion of the data processing, each GPR reflection image was evaluated to:

(1) evaluate the GPR penetration depth and resolution of the data collected at 500MHz and compare reflection character of the two, perpendicular line orientations; and

(2) Interpret GPR reflections and image patterns as bounding surfaces and architectural elements in profile.

AN INLINE REFLECTION PROFILE WAS USED IN THIS SURVEY TO SHOW A PICTURE OF WHAT ANOMALIES, IF ANY, EXISTS WITH DATA COLLECTED USING 500 MHZ ANTENNAE.

GROUND PENETRATING RADAR EQUIPMENT ON SITE

Section Two

DISCUSSION and INTERPRETATION

Part One: Discussion

The GPR survey included:

- The project area was 70% accessible. The area consisted of concrete and metal mats on the ramp area.
- The concrete surface was covered with water, oil and grease on the concrete surface in the pit. Above the pit and along the corridor water was lying on the concrete surface also.

Part Two: Interpretation

The primary objectives of the GPR survey were to determine the location and depth of the historical culvert and the internal reinforcement locate.

Section Three

RESULTS

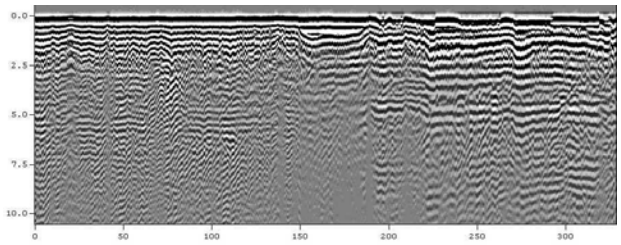


FIGURE 1

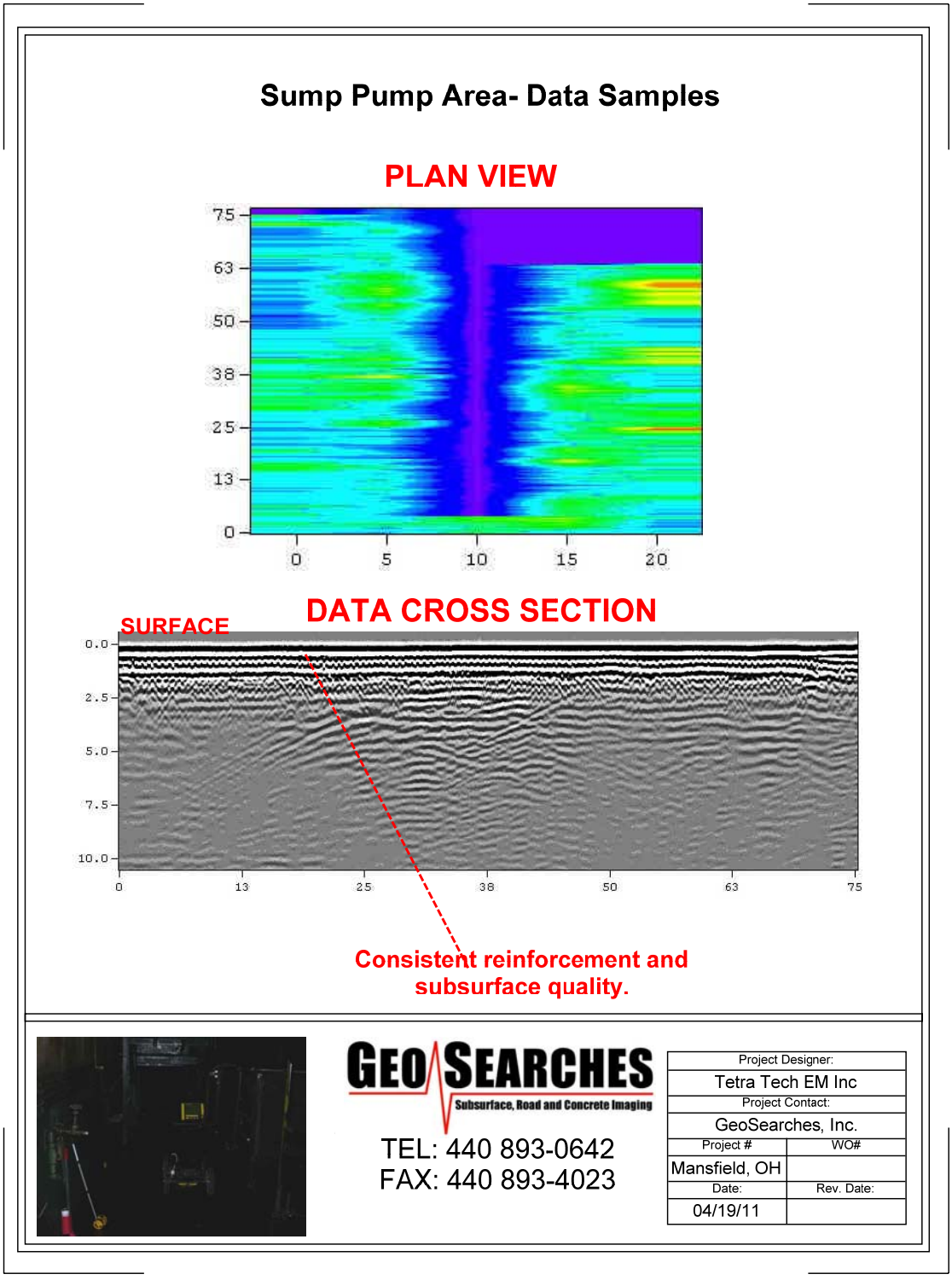
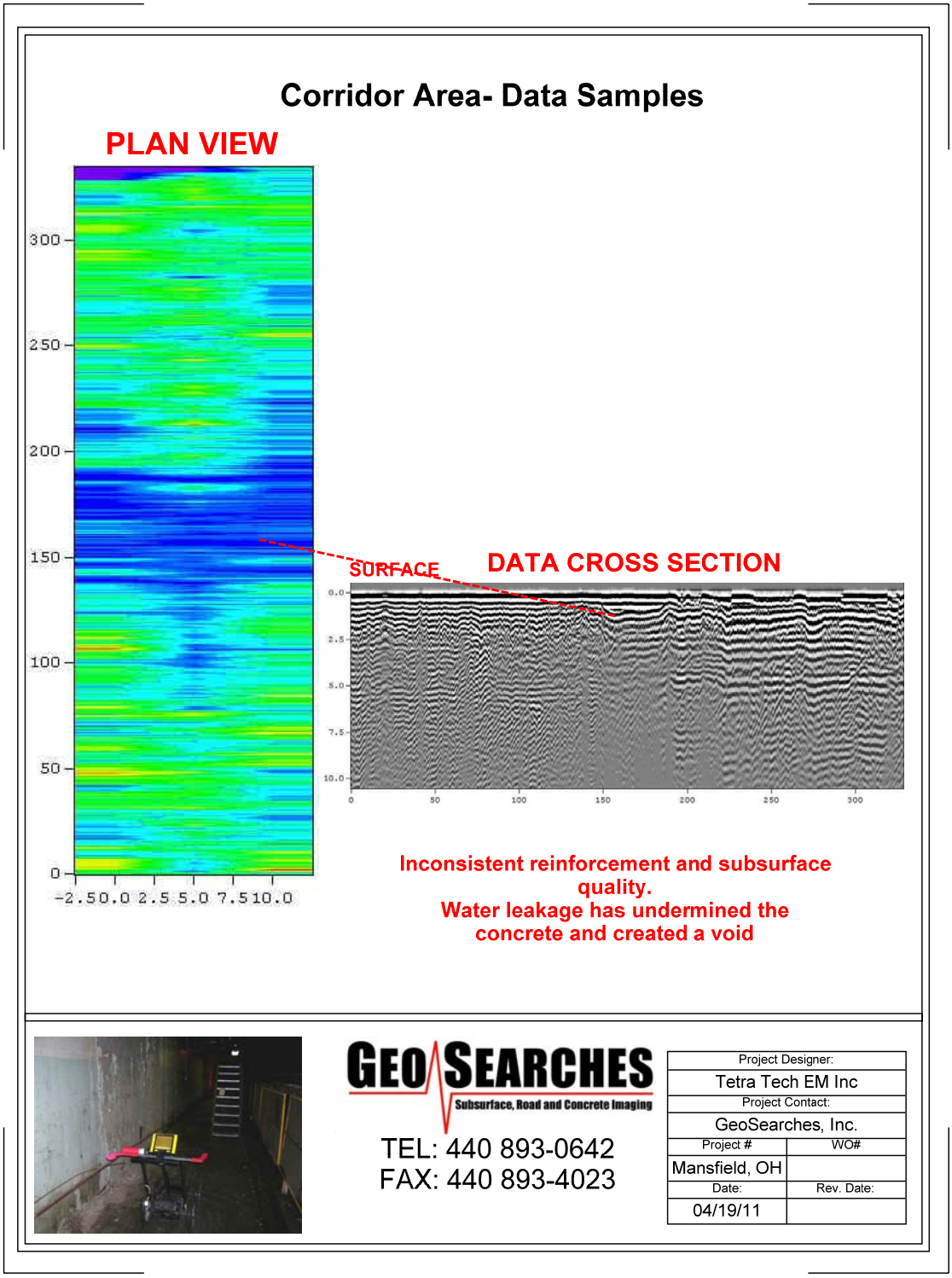

Sump Pump Area- Data Samples
PLAN VIEW
75
63
50
38
25
13
0
0
5
10
15
20
DATA CROSS SECTION
SURFACE
0.0
2.5
5.0
7.5
10.0
0
13
25
38
50
63
75
Consistent reinforcement and subsurface quality.
GEO SEARCHES
Subsurface, Road and Concrete Imaging
TEL: 440 893-0642
FAX: 440 893-4023
Project Designer:
Tetra Tech EM Inc
Project Contact:
GeoSearches, Inc.
Project #
WO#
Mansfield, OH
Date:
Rev. Date:
04/19/11

FIGURE 2


Corridor Area- Data Samples
PLAN VIEW
300
250
200
150
100
50
0
-2.5 0.0 2.5 5.0 7.5 10.0
SURFACE
DATA CROSS SECTION
0.0
2.5
5.0
7.5
10.0
0
50
100
150
200
250
300
Inconsistent reinforcement and subsurface quality.
Water leakage has undermined the concrete and created a void
GEO SEARCHES
Subsurface, Road and Concrete Imaging
TEL: 440 893-0642
FAX: 440 893-4023
Project Designer:
Tetra Tech EM Inc
Project Contact:
GeoSearches, Inc.
Project #
WO#
Mansfield, OH
Date:
Rev. Date:
04/19/11

Results

The object of the Geophysical survey and the use of Concrete Penetrating Radar to achieve the project goals were to find and delineate the location of any concrete issues in the "Marriage Pit" area.

1. **Sump Area** -100'x20'
   The concrete thickness in this area is approximately 2 feet.
   In Fig 1 we can see from the data crossection that the concrete floor has not created voids, cracks or leakage within the concrete floor and all looks consistent.

2. **Corridor Area** -422'x10'
   Ramp -46'x7'

   The concrete thickness in this area was approximately 2 feet also.
   In Fig 2 we can see from the data crossection that the concrete floor between 140'-200' has been subjected to water damage. The water leakage overtime has infiltrated the concrete and has created voids and warped the reinforcement.

The ramp area did not show any deterioration within the concrete structure.

Conclusion

The Geophysical survey produced good quality data and the results established the condition of the concrete flooring in and around the Marriage Pit area AT THE Stamping Plant facility.

General Qualifications

The GPR data presented herein are interpreted. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area is contained herein. No interpretation of subsurface conditions can be made for areas not surveyed.

Geophysical Investigation
GM Facility Mansfield Ohio

Prepared For
Tetra Tech

By

Terence M. Hamill
May 19, 2013
GeoSearches, Inc.
200 Industrial Parkway, Suite 6B
Chagrin Falls, Ohio 44022
(440) 893-0642

May 15, 2013

Ms. Vicky Farmer
Environmental Scientist
Tetra Tech
250 West Court Street, Suite 200W,
Cincinnati, OH 45202

SUBJECT: GM Facility Mansfield, Ohio

Geophysical Investigation Survey

Dear Vicky:

GeoSearches, Inc has completed the Geophysical survey, May 16 2013 at the former GM site. This Full Report presents the results regarding the targeted survey, locating possible drums within a client designated area at the facility.
If you have further questions please contact GeoSearches Inc it has been a pleasure working with you on this project.

Best regard's,

Terence M. Hamill

President / Principal Geophysicist
GeoSearches, Inc

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Part Two: Interpretation Page 10

Section Three: Results

Data Samples Page 12

Results Page 15

Conclusion Page 16

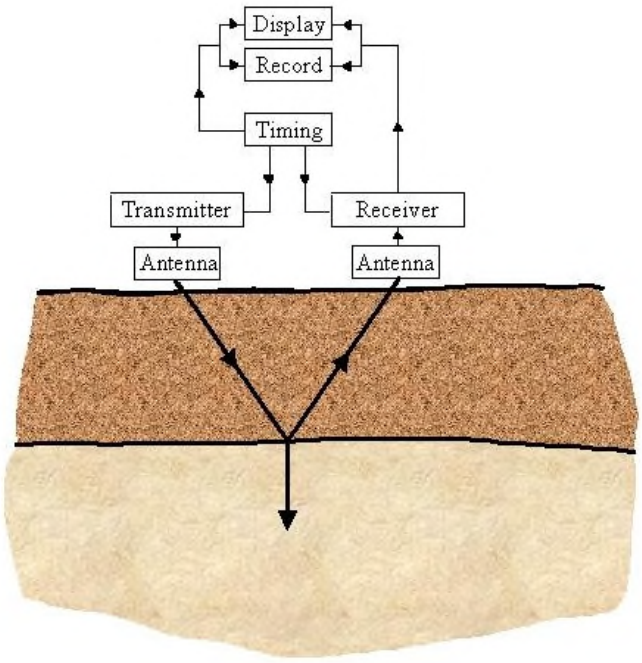
Section One

SITE PROJECT AND DESCRIPTION

Introduction:

GeoSearches, Inc. has been retained by Tetra Tech to conduct a Geophysical survey at the former GM facility in Mansfield Ohio. The object of the survey is to detect if the designated survey area was utilized as an historical dump for drums.

The non-intrusive, subsurface investigation was conducted using Ground Penetrating Radar (GPR). GPR detects subsurface structures by transmitting radio frequency waves into the ground and monitoring the strength and time delay of the reflection. The returning signal can then be evaluated to locate subsurface anomalies. Anomalies can be caused by void spaces, differences in soil/bedrock texture, differences in soil/bedrock moisture content, differences in the sediment compaction, and the presence of subsurface structures such as pipelines.



Part One: Method

A series of Ground Penetrating Radar and Electromagnetic (GPR) data lines were acquired at the site. The survey coverage region totaled approximately 132000 sq ft which included all areas of interest. The goal of the survey is to determine the location of underground storage tanks or other anomalies that could be present. These images will be used to construct a 2-D/ 3-D model of the area surveyed at the site. Depth of penetration ranges from 0-ft to 13-ft.

Before fieldwork historical data and detailed diagrams were reviewed to provide background information on the site.

A grid survey of 68 data lines was laid out at the site at intervals of 5 feet.
Observation points were established along each line. Moving the GPR equipment along the grid lines completed the survey. The records are quality controlled and reviewed in the field before processing.

The equipment used was a Noggin 250 GPR system from Sensors and Software, Inc. The antennae had center frequency of 250 MHz
All of the data were acquired using the common-offset reflection profiling method. We completed a series of single line tests using the antennae to optimize acquisition parameters, and used these results to design the survey.

Part Two: Processing

GPR data: apply filters and gains to make anomalies of interest more visible; plot data with uniform scales; compare model curves with data plots; time slice data.

We processed the data to improve image quality using SPIVIEW TOOLS, and WIN EKKO software from Sensors and Software, Inc.

The first step in processing is to input geometry information and edit headers. Next, a short (3-sample) temporal median trim filter is applied to each trace to attenuate noise spikes that contaminated some of the data... A residual median filter is then applied to attenuate the wow. Tests show that this filter successfully attenuates both the low and high frequency components of the wow, without adding precursors or other artifacts to the wavelet. Time zero determination and datuming is also performed.

The next step in the processing sequence is amplitude compensation. For each line, we determine the rectified-amplitude versus time fall-off of the data. The inverse of this curve is scaled by a multiplier (0.3) to form the gain function. The multiplier is used to reduce the gain function somewhat so that anomalously high amplitude values are not clipped after amplitude compensation.

Part Three: Interpretation and data quality

After completion of the data processing, each GPR reflection image was evaluated to:

(1) evaluate the GPR and EM penetration depth and resolution of the data collected to compare reflection character of the two, perpendicular line orientations; and

(2) Interpret GPR and EM reflections and image patterns as bounding surfaces and architectural elements in profile.

AN INLINE REFLECTION PROFILE WAS USED IN THIS SURVEY TO SHOW A PICTURE OF WHAT ANOMALIES, IF ANY, EXISTS WITH DATA COLLECTED USING GPR.

Geophysical equipment on site

Section Two

DISCUSSION and INTERPRETATION

Part One: Discussion

The GPR survey included:

- The survey area consisted of vegetation cover.
- The weather conditions were overcast and mild.

Part Two: Interpretation

With the collected data and final processing the goal is to establish were inconsistencies exist within the data coverage to establish the areas of concern.

Section Three

RESULTS

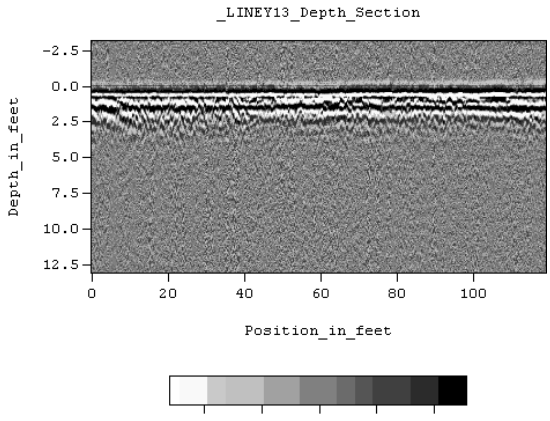


FIGURE 1

GEOPHYSICAL SURVEY PROJECT AREA

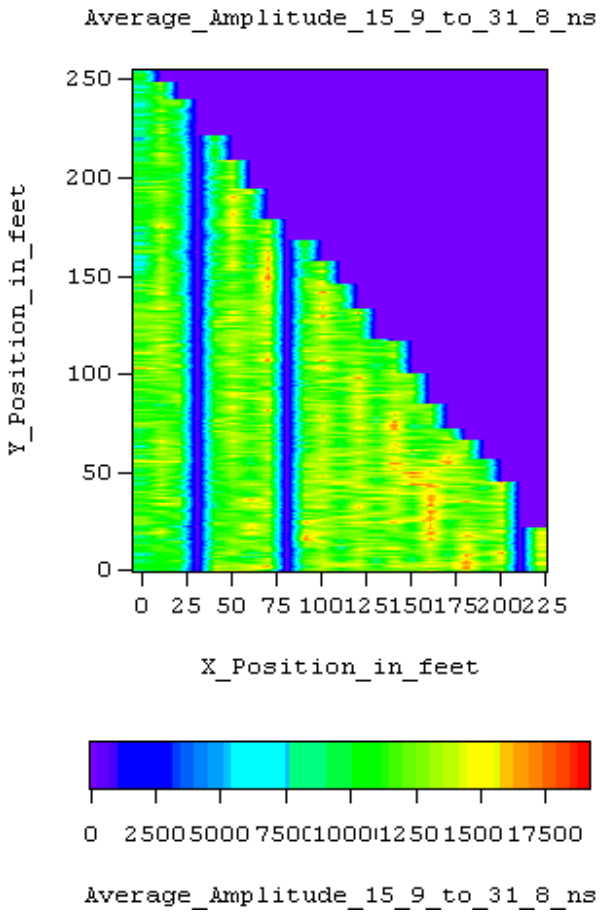
GEOSEARCHES

TEL: 440 893-0642
FAX: 440 893-4023

Project Designer:	
Tetra Tech	
Project Contact:	
GeoSearches, Inc.	
Project #	WO#
GM Mansfield	
Date:	Rev. Date:
05/15/2013	

FIGURE 2

GEOPHYSICAL SURVEY PROCESSED DATA
PLAN VIEW



GEOSEARCHES

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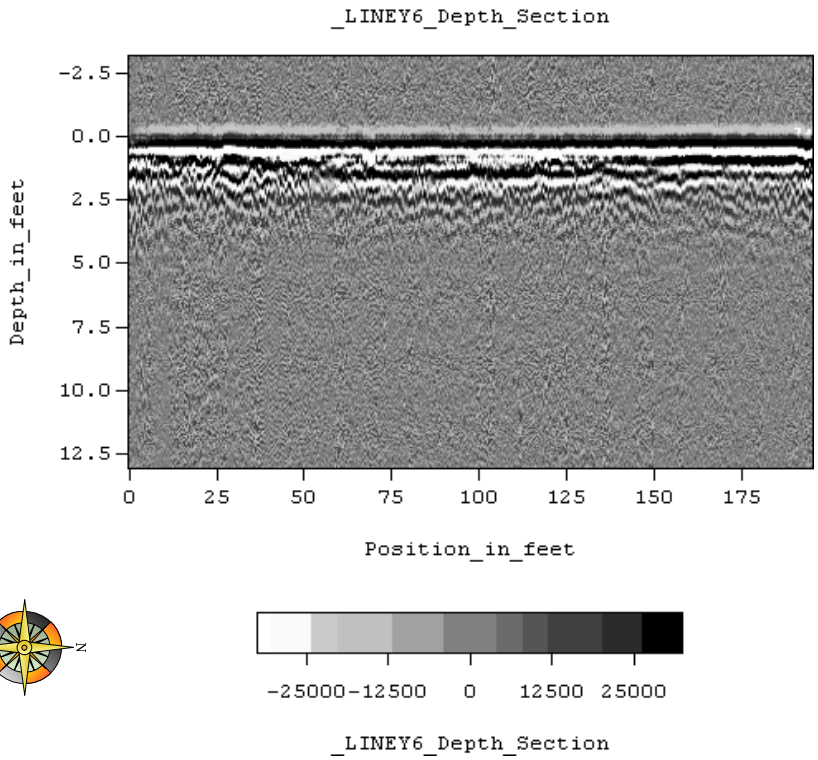
Tetra Tech	
Project Contact:	
GeoSearches, Inc.	
Project #	WO#
GM Mansfield	
Date:	Rev. Date:
05/15/2013	

FIGURE 3

GEOPHYSICAL SURVEY PROCESSED DATA
CROSS SECTION SAMPLE



GEOSEARCHES

TEL: 440 893-0642
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Project Designer:	
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GeoSearches, Inc.	
Project #	WO#
GM Mansfield	
Date:	Rev. Date:
05/15/2013	

Results

The object of the Geophysical survey and the use of Ground Penetrating Radar was to detect if drums had been buried beneath the surface at the designated site.

The survey was conducted with 100% coverage of the property area.
Straight data lines transected all areas and when a subsurface anomaly was identified small data lines would transect the area of possible anomalies.

In **Figure 2** the processed data imaging includes a plan view section of the complete project area with a data cross section sample in **Figure 3**

The depth of data acquisition was 13 feet. The area consisted of sandy clays and areas of subsurface disturbance could be seen close to the surface near the area of the sample auger.
After processing the data and final interpretation there was no evidence to suggest that subsurface orphaned drums exist below the designated areas.

Conclusion

The Geophysical survey produced good quality data and the data did not indicate the existence of buried drums.

General Qualifications

The GPR data presented herein are interpreted. No warranty, certification, or statement of fact, either expressed or implied, regarding actual subsurface conditions within the surveyed area is contained herein. No interpretation of subsurface conditions can be made for areas not surveyed.

Appendix O

Historical ACBM Data and Reports

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
1	BALERHOUSE	1	A		1	EXTERIOR	CAULK-EXPANSION JOINT			☑
2	BALERHOUSE	1	A		1	EXTERIOR	CAULK-WINDOW LEDGE			☑
3	BALERHOUSE	1	A		1	EXTERIOR	WINDOW GLAZING-EXTERIOR			☐
4	BALERHOUSE	1	A		1	EXTERIOR	WINDOW GLAZING-EXTERIOR			☐
5	BALERHOUSE	1	A		1	EXTERIOR	WINDOW GLAZING-EXTERIOR			☐
6	BALERHOUSE	1	A		4	BREAKROOM	BASEBOARD MASTIC		BROWN	☐
7	BALERHOUSE	1	A		4	BREAKROOM	BASEBOARD MASTIC		BROWN	☐
8	BALERHOUSE	1	A		4	BREAKROOM	BASEBOARD MASTIC		BROWN	☐
9	BALERHOUSE	1	A		4	BREAKROOM	CAULK-DOOR FRAME		WHITE	☐
10	BALERHOUSE	1	A		4	BREAKROOM	CAULK-DOOR FRAME		WHITE	☐
11	BALERHOUSE	1	A		4	BREAKROOM	CAULK-DOOR FRAME		YELLOW	☐
12	BALERHOUSE	1	A		4	BREAKROOM	CEILING TILE	2' x 4'	LARGE FISSURE	☐
13	BALERHOUSE	1	A		4	BREAKROOM	CEILING TILE	2' x 4'	LARGE FISSURE	☐
14	BALERHOUSE	1	A		4	BREAKROOM	CEILING TILE	2' x 4'	LARGE FISSURE	☐
15	BALERHOUSE	1	A		4	BREAKROOM	CINDER BLOCK COATING		YELLOW	☐
16	BALERHOUSE	1	A		4	BREAKROOM	CINDER BLOCK COATING		YELLOW	☐
17	BALERHOUSE	1	A		4	BREAKROOM	FIBERGLASS BACKING			☐
18	BALERHOUSE	1	A		4	BREAKROOM	SINK COATING		BLACK	☐
19	BALERHOUSE	1	B		4	LOCKER ROOM	CAULK-DOOR FRAME		WHITE	☐
20	BALERHOUSE	1	B		4	LOCKER ROOM	CEILING TILE	2' x 4'	SMALL FISSURE	☐
21	BALERHOUSE	1	B		4	LOCKER ROOM	CEILING TILE	2' x 4'	SMALL FISSURE	☐
22	BALERHOUSE	1	B		4	LOCKER ROOM	CEILING TILE	2' x 4'	SMALL FISSURE	☐
23	BALERHOUSE	1	B		4	LOCKER ROOM	CINDER BLOCK COATING		YELLOW	☐
24	BALERHOUSE	1	B		4	LOCKER ROOM	FIBERGLASS BACKING			☐
25	BALERHOUSE	1	B		4	RESTROOM	CEILING TILE	2' x 4'	DRYWALL	☐
26	BALERHOUSE	1	B		4	RESTROOM	CEILING TILE	2' x 4'	DRYWALL	☐

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
27	BALERHOUSE	1	B		4	RESTROOM	CEILING TILE	2' x 4'	DRYWALL	☐
28	BALERHOUSE	1	B		4	RESTROOM	CEILING TILE	2' x 4'	SMALL FISSURE	☐
29	BALERHOUSE	1	B		4	RESTROOM	FIBERGLASS BACKING			☐
30	BALERHOUSE	1	C		1	CENTRAL	MUDDED TSI FITTING-CONDENSATE			☑
31	BALERHOUSE	1	C		1	CENTRAL	PIPE INSULATION-CONDENSATE			☑
32	BALERHOUSE	1	C		1	CENTRAL	WINDOW GLAZING-INTERIOR			☐
33	BALERHOUSE	1	D		1	NORTH	MUDDED TSI FITTING-CONDENSATE			☑
34	BALERHOUSE	1	D		1	NORTH	MUDDED TSI FITTING-COOLING			☑
35	BALERHOUSE	1	D		1	NORTH	PIPE INSULATION-CITY WATER			☐
36	BALERHOUSE	1	D		1	NORTH	PIPE INSULATION-CONDENSATE			☑
37	BALERHOUSE	1	D		1	NORTH	PIPE INSULATION-COOLING			☐
38	BALERHOUSE	1	D		1	NORTH	PIPE INSULATION-COOLING			☐
39	BALERHOUSE	1	D		1	NORTH	WINDOW GLAZING-INTERIOR			☐
40	BALERHOUSE	1	D		1	NORTH	WINDOW GLAZING-INTERIOR			☐
41	BALERHOUSE	2	A		1	SOUTH	MUDDED TSI FITTING-25# STEAM			☑
42	BALERHOUSE	2	A		1	SOUTH	MUDDED TSI FITTING-CITY WATER			☑
43	BALERHOUSE	2	A		1	SOUTH	MUDDED TSI FITTING-CONDENSATE			☑
44	BALERHOUSE	2	A		1	SOUTH	PIPE INSULATION-25# STEAM			☑
45	BALERHOUSE	2	A		1	SOUTH	PIPE INSULATION-CITY WATER			☐
46	BALERHOUSE	2	A		1	SOUTH	PIPE INSULATION-CONDENSATE			☑
47	BALERHOUSE	2	A		1	SOUTH	WINDOW GLAZING-INTERIOR			☐
48	BALERHOUSE	2	C		1	BALER RAMP	MUDDED TSI FITTING-175# STEAM	>12"		☑
49	BALERHOUSE	2	C		1	BALER RAMP	MUDDED TSI FITTING-25# STEAM	>12"		☑
50	BALERHOUSE	2	C		1	BALER RAMP	MUDDED TSI FITTING-CITY WATER	>12"		☑
51	BALERHOUSE	2	C		1	BALER RAMP	MUDDED TSI FITTING-CONDENSATE			☑
52	BALERHOUSE	2	C		1	BALER RAMP	MUDDED TSI FITTING-HOT WATER			☑

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
53	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-175# STEAM	>12"		☑
54	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-25# STEAM	>12"		☑
55	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-CITY WATER	>12"		☐
56	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-CONDENSATE			☑
57	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-HOT WATER			☐
58	BALERHOUSE	2	C		1	BALER RAMP	PIPE INSULATION-HOT WATER			☐
59	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-175# STEAM			☑
60	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-25# STEAM			☑
61	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-CITY WATER			☑
62	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-CONDENSATE			☑
63	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-COOLING			☑
64	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-COOLING			☑
65	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-HOT WATER			☑
66	BALERHOUSE	2	C		1	CENTRAL	MUDDED TSI FITTING-HOT WATER			☑
67	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-175# STEAM			☑
68	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-25# STEAM			☑
69	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-CITY WATER			☐
70	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-CONDENSATE			☑
71	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-COOLING			☐
72	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-COOLING			☐
73	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-HOT WATER			☐
74	BALERHOUSE	2	C		1	CENTRAL	PIPE INSULATION-HOT WATER			☐
75	BALERHOUSE	2	C		1	CENTRAL	WINDOW GLAZING-INTERIOR			☐
76	BALERHOUSE	2	C		3	CONTROL ROOM	CEILING TILE	2' x 4'	LARGE FISSURE	☐
77	BALERHOUSE	2	C		3	CONTROL ROOM	FLOOR TILE	12" x 12"	RED	☐
78	BALERHOUSE	2	C		3	CONTROL ROOM	FLOOR TILE	12" x 12"	RED	☐

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
79	BALERHOUSE	2	C		3	CONTROL ROOM	FLOOR TILE	12" x 12"	RED	☐
80	BALERHOUSE	2	C		5	PIPE TUNNEL	MUDDED TSI FITTING-HOT WATER			☑
81	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-175# STEAM			☑
82	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-175# STEAM			☑
83	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-175# STEAM			☑
84	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-175# STEAM			☑
85	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-25# STEAM			☑
86	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-CITY WATER			☐
87	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-CONDENSATE			☑
88	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-COOLING			☐
89	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-COOLING			☐
90	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-COOLING			☐
91	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-COOLING			☐
92	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-HOT WATER			☐
93	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-HOT WATER			☐
94	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-HOT WATER			☐
95	BALERHOUSE	2	C		5	PIPE TUNNEL	PIPE INSULATION-HOT WATER			☐
96	BALERHOUSE	2	D		1	NORTH	MUDDED TSI FITTING-25# STEAM			☑
97	BALERHOUSE	2	D		1	NORTH	MUDDED TSI FITTING-CITY WATER			☑
98	BALERHOUSE	2	D		1	NORTH	MUDDED TSI FITTING-COOLING			☑
99	BALERHOUSE	2	D		1	NORTH	MUDDED TSI FITTING-HOT WATER			☑
100	BALERHOUSE	2	D		1	NORTH	PIPE INSULATION-25# STEAM			☑
101	BALERHOUSE	2	D		1	NORTH	PIPE INSULATION-CITY WATER			☐
102	BALERHOUSE	2	D		1	NORTH	PIPE INSULATION-COOLING			☐
103	BALERHOUSE	2	D		1	NORTH	PIPE INSULATION-HOT WATER			☐
104	BALERHOUSE	2	D		1	NORTH	WINDOW GLAZING-INTERIOR			☐

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
105	BALERHOUSE	3	C	1		PENTHOUSE	MUDDED TSI FITTING-175# STEAM			☑
106	BALERHOUSE	3	C	1		PENTHOUSE	MUDDED TSI FITTING-25# STEAM			☑
107	BALERHOUSE	3	C	1		PENTHOUSE	MUDDED TSI FITTING-CITY WATER			☑
108	BALERHOUSE	3	C	1		PENTHOUSE	MUDDED TSI FITTING-CONDENSATE			☑
109	BALERHOUSE	3	C	1		PENTHOUSE	MUDDED TSI FITTING-HOT WATER			☑
110	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-175# STEAM			☑
111	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-25# STEAM			☑
112	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-CITY WATER			☐
113	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-CITY WATER			☐
114	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-CONDENSATE			☑
115	BALERHOUSE	3	C	1		PENTHOUSE	PIPE INSULATION-HOT WATER			☐
116	BALERHOUSE	R	A	1		ROOF	ROOFING MATERIAL			☑
117	BALERHOUSE	R	A	1		ROOF	ROOFING MATERIAL			☑
118	BALERHOUSE	R	A	1		ROOF	ROOFING MATERIALS			☑

EMERALD
ENVIRONMENTAL, INC.

General Motors Stamping – Mansfield

WFG-FM Asbestos Tracking Tool (ATT)

Power House and Waste Treatment Bldg

Structure 9927

GM Project Number GMS15876

Emerald Environmental #07-0208

August 8, 2008

ENVIRONMENTAL INDUSTRIAL HYGIENE WASTE MANAGEMENT

800-570-0690
www.emerald-environmental.com
KENT • AKRON • CLEVELAND • MARIETTA

Master List Report of HA Number

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

HA#	System	Type	Description	Uniformat Code
1	Flooring	MM/Non-Friable	Linoleum, Brown Light & Dark Pebblestone (larger Pattern)	C3024
	Flooring	MM/Non-Friable	Linoleum, Tan Terrazzo Pattern	C3024
3	Flooring	MM/Non-Friable	Linoleum, Gray Sandstone	C3024
4	Ceiling	MM/Friable	Suspended, Random Fissure Pattern Ceiling Tile	C3032
	City Water	TSI/Friable	Millboard Type Straight Run Insulation	D2021
6	City Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2021
	Window	MM/Non-Friable	Caulk, Brittle on Exterior Walls	B2020
	Abandoned Line	TSI/Friable	Millboard Type Straight Run Insulation	
9	Abandoned Line	TSI/Friable	Mud Fittings on Millboard Type Insulation	
10	Steam	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3043
11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3043
12	Steam	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3043
13	Flooring	MM/Non-Friable	12 in x 12 in Black with White Streaks (Busy Pattern) Floor Tile	C3024
14	Flooring	MM/Non-Friable	12 in x 12 in Brown with Red Specks Floor Tile	C3024
15	Steam	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3043
16	Debris	TSI/Friable	Suspect TSI Debris (Mostly Millboard, Mud & Caulk)	
17	Lab Top	MM/Non-Friable	Black Slate/Transite Materials	E2012
18	Salvage Water	TSI/Friable	Mud Fittings on Fiberglass Straight Run	D2090
19	Roof Drain	TSI/Friable	Millboard Type Straight Run Insulation	D2042
20	Roof Drain	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2042
21	Flooring	MM/Non-Friable	Linoleum, Gray with Black & White Specks	C3024
22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2021
23	Flooring	MM/Non-Friable	12 in x 12 in Dark Olive with Black, White & Red Specks	C3024
24	Drain Line	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2040
25	HVAC	MM/Friable	Canvas (Smooth) Expansion/Vibration Joint	D3097
26	Door	MM/Non-Friable	Fire Door - (PACM)	C1021
27	Walls	TSI/Friable	Fibrous Insulation with Black Backing Inside of Slotted Walls	C3010
28	Flooring	MM/Non-Friable	Linoleum, Brown Terrazzo Pattern	C3024
29	Ceiling	MM/Friable	Suspended, Straw Pattern Tile	C3032

Master List Report of HA Number

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

.IA#	System	Type	Description	Uniformat Code
30	Chilled Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line with Aluminum Jacket	D3031
›1	HVAC	TSI/Friable	Fiberglass Blanket with Canvas & Paper Backing	D3097
32	Chilled Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3031
3	Condensate	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3043
34	Oven	MM/Non-Friable	Heavy Woven Door Gasket	E1029
?5	Flooring	MM/Non-Friable	12 in x 12 in Cream with Light & Dark Streaks Floor Tile	C3024
36	Flooring	MM/Non-Friable	Linoleum, Multi Colored Terrazzo Pattern (Dark)	C3024
7	Sanitary Piping	TSI/Friable	Mud Fittings on Fiberglass Straight Line	G3030
8	Ceiling	MM/Friable	Suspended, Coarse Deep Cut Textured	C3032
39	Flooring	MM/Non-Friable	Linoleum, Multi Colored Terrazzo Pattern (Light)	C3024
‹0	Flooring	MM/Non-Friable	12 in x 12 in Dark Olive with Light & Dark Spots (Camouflage) Floor Tile	C3024
1	Flooring	MM/Non-Friable	12 in x 12 in Black with Light & Dark Spots Floor Tile	C3024
42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3043
3	Flooring	MM/Non-Friable	Linoleum, Off White with Gray Terrazzo Pattern	C3024
44	Abandoned Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	
45	Condensate	TSI/Friable	Tank Mudded Ends with Fiberglass Insulation	D3043
6	Debris	TSI/Friable	Suspect TSI Debris, Mag Type	
47	Roof	MM/Non-Friable	Rolled Roofing on Interior Buildings	B3011
8	Walls/Ceiling	SM/Friable	Plaster with Mesh	C1011
9	Walls/Ceiling	SM/Friable	Drywall & Mud	C1011
50	Flooring	MM/Non-Friable	12 in x 12 in Brown with Black Streaks Floor Tile	C3024
51	Flooring	MM/Non-Friable	Linoleum, Tan Sandstone	C3024
52	Flooring	MM/Non-Friable	18 in x 18 in Gray with Dark Gray & White Streaks Floor Tile	C3024
53	Ceiling	MM/Friable	12 in x 24 in Fibrous Insulation with Black Paper Ceiling Tile	C3032
4	Flooring	MM/Non-Friable	9 in x 9 in Tan with Light & Dark Streaks Floor Tile	C3024
55	Ceiling	MM/Friable	Suspended Pin Hole Pattern Ceiling Tile	C3032
6	Ceiling	MM/Friable	1 ft x 1 ft Splined Ceiling Tile	C3032
57	HVAC	TSI/Friable	Fibrous Glass with Canvas & Mud	D3097
8	Valves	MM/Non-Friable	Pressed Fibrous Gaskets	
59	Debris	TSI/Friable	Suspect TSI Debris, Horsehair	
60	Ceiling	MM/Friable	2 ft x 4 ft Cloth with Fiberglass Suspended Ceiling Tile	C3032

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Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HA#	System	Type	Description	Uniformat Code
61	Flooring	MM/Non-Friable	12 in x 12 in Mauve with Dark & Light Streaks Floor Tile	C3024
62	Flooring	MM/Non-Friable	Linoleum, Cream with Light & Dark Pebblestone Large Pattern	C3024
63	Flooring	MM/Non-Friable	12 in x 12 in Gray Blue Busy Pattern Floor Tile	C3024
64	Flooring	MM/Non-Friable	Linoleum, Orange & Red Pebblestone Larger Pattern	C3024
65	Flooring	MM/Non-Friable	12 in x 12 in Light Gray with Light Streaks Floor Tile	C3024
66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation	D3043
67	Steam	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3043
68	HVAC	TSI/Friable	Black Fibrous Insulation on Interior of Duct (Pinned on)	D3097
69	Ceiling	MM/Friable	Snowflake Pattern Suspended Ceiling Tile	C3032
70	Wiring	MM/Non-Friable	Woven Wire Insulation	D5010
71	HVAC	MM/Non-Friable	Heavy Woven Canvas Gasket	D3097
72	Chilled Water	TSI/Friable	Tar Caulk Wrap	D3031
73	Debris	TSI/Friable	Tar Caulk Debris	
74	Flooring	MM/Non-Friable	9 in x 9 in Black with White & Blue Splats Floor Tile	C3024
75	HVAC	MM/Non-Friable	Tar & Nylon Gasket	D3097
76	City Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2021
77	City Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2021
78	Condensor Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3031
79	Chilled Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3031
80	Chilled Water	TSI/Friable	Millboard Type Straight Run Insulation	D3031
81	Chilled Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3031
82	City Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2021
83	Ceiling	MM/Friable	Suspended, Knock Down Pattern Ceiling Water	C3032
84	Debris	TSI/Friable	Cork	
85	Cooler	TSI/Friable	Cork Insulation	D3060
86	Cooling Tower	TSI/Friable	Honeycomb Paper Filler	D3064
87	Miscellaneous	MM/Non-Friable	Transite Panels	
88	Ceiling	SM/Friable	Plaster with Sprayed on	C3031
89	Walls	SM/Friable	Cork Insulation with Brown Adhesive	C3010
90	HVAC	TSI/Friable	Mud Fittings on Fiberglass Line (Strand Units)	D3097
91	Flooring	MM/Non-Friable	12 in x 12 in Tan with Cream Streaks Floor Tile	C3024
92	Roof	MM/Non-Friable	Flat Roofing on Building Exterior	B1021
93	Roof	MM/Non-Friable	Roof Flashing on Building Exterior	B3014

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HA#	System	Type	Description	Uniformat Code
94	Oven	MM/Friable	Firebrick with Mortor	E1029
5	Diesel Fuel	TSI/Friable	Mud Fittings on Fiberglass Straight Line (Painted Yellow)	D3010
96	Flooring	MM/Non-Friable	9 in x 9 in Light Brown with Light & Dark Specks Floor Tile	C3024
97	Flooring	MM/Non-Friable	9 in x 9 in Gray with Cream Streaks Floor Tile	C3024
98	Ceiling	MM/Friable	2 ft x 4 ft Suspended Canvas Covered Gypsum Board Smooth	C3032
99	HVAC	SM/Friable	Troweled-on Plaster Material	D3097
100	Cooler	MM/Non-Friable	Black Tar Layer over Styrofoam	D3060
01	Flooring	MM/Non-Friable	Linoleum, Gray Multi-Colored Terrazzo Pattern	C3024
102	Abandoned Line	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	
03	Abandoned Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	
104	Abandoned Line	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	
105	Abandoned Line	TSI/Friable	Millboard Type Straight Run with Tar Layer	
106	Abandoned Line	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	
107	Abandoned Line	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	
08	Abandoned Line	TSI/Friable	Mud Fittings on Fiberglass Straight Line	
109	Abandoned Line	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	
10	Abandoned Line	TSI/Friable	Tar Caulk Wrap	
111	Ceiling	SM/Friable	2 X 2 Ceiling Tile	C3032
12	Ceiling	SM/Friable	2 X 4 Ceiling Tile	C3032
13	Chilled Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3031
14	Chilled Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3031
115	Chilled Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3031
16	Chilled Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3031
117	Chilled Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3031
118	Chilled Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3031
119	Chilled Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3031
20	City Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2021
121	City Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2021
122	City Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2021

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A#	System	Type	Description	Uniformat Code
123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2021
24	City Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2021
125	City Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2021
126	City Water	TSI/Friable	Tar Caulk Wrap	D2021
127	Condensate	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3043
128	Condensate	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3043
129	Condensate	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3043
130	Condensate	TSI/Friable	Millboard Type Straight Run Insulation	D3043
131	Condensate	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3043
132	Condensate	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3043
133	Condensate	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3043
134	Condensate	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3043
135	Condensate	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3043
136	Condensate	TSI/Friable	Tar Caulk Wrap	D3043
137	Drain Line	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2040
138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2040
139	Drain Line	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2040
140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2040
141	Drain Line	TSI/Friable	Millboard Type Straight Run Insulation	D2040
142	Drain Line	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2040
143	Drain Line	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2040
144	Drain Line	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2040
145	Drain Line	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2040
146	Drain Line	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2040
147	Drain Line	TSI/Friable	Tar Caulk Wrap	D2040
148	Flooring	SM/Friable	12 x 12 Floor Tile, Gray with Gray & White Streaks	C3024
149	HVAC	TSI/Friable	Rectangular Duct Work	D3097
150	Miscellaneous	MM/Non-Friable	Brown caulk	
151	Roof Drain	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2042

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HA#	System	Type	Description	Uniformat Code
152	Roof Drain	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2042
53	Roof Drain	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2042
154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2042
55	Roof Drain	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2042
156	Roof Drain	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2042
57	Roof Drain	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2042
158	Roof Drain	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2042
59	Roof Drain	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2042
160	Roof Drain	TSI/Friable	Tar Caulk Wrap	D2042
61	Salvage Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2090
62	Salvage Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2090
163	Salvage Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2090
64	Salvage Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2090
165	Salvage Water	TSI/Friable	Millboard Type Straight Run Insulation	D2090
166	Salvage Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2090
67	Salvage Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2090
168	Salvage Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2090
169	Salvage Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2090
170	Salvage Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2090
171	Salvage Water	TSI/Friable	Tar Caulk Wrap	D2090
72	Sanitary Piping	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	G3030
173	Sanitary Piping	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	G3030
74	Sanitary Piping	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	G3030
175	Sanitary Piping	TSI/Friable	Mag Type Straight Run & Fittings Insulation	G3030
76	Sanitary Piping	TSI/Friable	Millboard Type Straight Run Insulation	G3030
177	Sanitary Piping	TSI/Friable	Millboard Type Straight Run with Tar Layer	G3030
178	Sanitary Piping	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	G3030
179	Sanitary Piping	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	G3030
80	Sanitary Piping	TSI/Friable	Mud Fittings on Millboard Type Insulation	G3030

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IA#	System	Type	Description	Uniformat Code
181	Sanitary Piping	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	G3030
182	Sanitary Piping	TSI/Friable	Tar Caulk Wrap	G3030
183	Steam	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3043
184	Steam	TSI/Friable	Millboard Type Straight Run Insulation	D3043
185	Steam	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3043
186	Steam	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3043
187	Steam	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3043
188	Steam	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3043
189	Steam	TSI/Friable	Tar Caulk Wrap	D3043
190	Tower Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2023
191	Tower Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2023
192	Tower Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2023
193	Tower Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2023
194	Tower Water	TSI/Friable	Millboard Type Straight Run Insulation	D2023
195	Tower Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2023
196	Tower Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2023
197	Tower Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2023
198	Tower Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2023
199	Tower Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2023
200	Tower Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2023
201	Tower Water	TSI/Friable	Tar Caulk Wrap	D2023
202	Walls	SM/Friable	Spray-on Wall	C3010
203	Walls/Ceiling	SM/Friable	Drywall with Trowel on Plaster	C1011
204	Walls/Ceiling	MM/Friable	Smooth Plaster	C1011
205	Walls/Ceiling	SM/Friable	Textured Plaster	C1011
206	Ceiling	SM/Friable	1 x 2 Metal Pan Tile with Fiberglass and Paper Backing	C3032
207	Ceiling	MM/Friable	Paper Backing from Metal Pan Ceiling Tile as Debris	C3032
208	Door	MM/Non-Friable	Yellow Wall Caulk	C1020
209	Flooring	MM/Non-Friable	9 x 9 Black Floor Tile with Black Mastic	C3024
210	Flooring	MM/Non-Friable	12 in x12 in Cream with Brown specks with Black Mastic	C3024
211	Flooring	MM/Non-Friable	Orange Carpet Glue	C3023

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HA#	System	Type	Description	Uniformat Code
212	Flooring	MM/Non-Friable	Yellow Carpet Glue	C3023
13	Flooring	MM/Non-Friable	Black Carpet Glue	C3023
214	Flooring	MM/Non-Friable	12 in x 12 in Cream color Floor Tile with Black Mastic	C3024
15	HVAC	MM/Friable	Cream Paper Duct Insulation	D3097
216	HVAC	MM/Non-Friable	Black Rubber Sealant	D3097
217	HVAC	MM/Non-Friable	Black Putty Sealant	D3097
18	HVAC	MM/Non-Friable	White Putty Sealant	D3097
219	HVAC	MM/Non-Friable	Black Door Seal	D3097
20	HVAC	MM/Non-Friable	Silver Sealant	D3097
21	HVAC	MM/Friable	White Canvas Isolation Cloth Vibration Damper	D3097
222	HVAC	MM/Friable	Black Rubber Isolation Joint Vibration Damper	D3097
23	HVAC	MM/Non-Friable	Black Conduit Putty	D3097
224	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" White Woolfelt Line	D2022
25	Sanitary Piping	TSI/Friable	Mud Fittings on Woolfelt Sanitary Sewer Line	G3030
226	Compressed Air	TSI/Friable	Mud Fittings on Compressed Air Fiberglass Line	D3041
227	Compressed Air	TSI/Friable	Mag Strait Run Insulation	D3041
28	Roof Drain	TSI/Friable	Mud Fittings on Brown Woolfelt Line	D2042
229	Walls	MM/Non-Friable	6" Black Baseboard	C3026
30	Walls	MM/Non-Friable	4" Black Baseboard	C3026
231	Walls	MM/Non-Friable	Black Building Wall Caulk	C3010
232	Walls	MM/Non-Friable	White Door Caulk to Wall	C3010
33	Walls	MM/Non-Friable	4" Gray Baseboard	C3026
234	Walls	MM/Non-Friable	4" Brown Baseboard	C3026
235	Walls	MM/Non-Friable	4" Reddish Brown Baseboard	C3026
36	Walls	MM/Non-Friable	White Brittle Door Caulk	C3010
237	Miscellaneous	MM/Non-Friable	Black Vinyl Isolation Cloth	
38	Miscellaneous	TSI/Friable	Mud Fittings on Unidentified Fiberglass Line	
239	Miscellaneous	TSI/Friable	Mag Insulation and Fittings in Unidentified Line	
240	Miscellaneous	TSI/Friable	Mud Fittings on Woolfelt Line	
41	Ceiling	MM/Friable	12 in x 12 in Metal Pan Ceiling Tile with Fiberglass & Paper Backing	C3032
242	Hot Water	TSI/Friable	"Domestic Hot Water" Line with Mag Insulation	D2022
43	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" Fiberglass Line	D2022
244	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" Aircell Line	D2022
245	Door	MM/Friable	Door Insulation; Acoustical Tile and Glue Pods	C1020
246	Flooring	MM/Non-Friable	12 in x 12 in Brown Floor Tile with White Specks & Black Mastic	C3024

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HA#	System	Type	Description	Uniformat Code
247	HVAC	TSI/Friable	Black Fiberglass Duct Insulation	D3097
48	HVAC	TSI/Friable	Brown Duct Insulation	D3097
249	HVAC	TSI/Friable	Brown Fiberous Insulation	D3097
250	Miscellaneous	MM/Friable	Pressed Fiberous Board	
51	Miscellaneous	MM/Non-Friable	Black Rubber Isolation Joint	
252	Miscellaneous	MM/Non-Friable	White Vinyl Isolation Cloth	
253	Miscellaneous	MM/Non-Friable	Fire Rated File Cabinets	
54	Miscellaneous	TSI/Friable	"Snow Melt" Line with Mag Insulation	
255	Miscellaneous	TSI/Friable	Green Tank Insulation (Hot Water)	
56	Miscellaneous	TSI/Friable	Mag Silver Tank Insulation	
257	Miscellaneous	TSI/Friable	Brown Corrugated Paper	
258	Window	MM/Non-Friable	White Window Glazing	B2020
59	Flooring	MM/Non-Friable	12 x 12 Yellow with Brown Floor Tile with Mastic	C3024
260	Flooring	MM/Non-Friable	Clear Carpet Glue	C3023
61	Flooring	MM/Non-Friable	Red Tile & Black Mortar	C3024
262	Flooring	MM/Non-Friable	Blue/Black Floor Glue	C3023
263	Flooring	MM/Non-Friable	Black Floor Seal	C3023
64	HVAC	MM/Friable	Gray Vinyl Smooth Vibration Damper	D3097
265	HVAC	MM/Friable	Gray Vinyl Textured Vibration Damper	D3097
66	HVAC	MM/Non-Friable	Green Canvas Vibration Damper	D3097
267	HVAC	MM/Non-Friable	Canvas Vibration Damper	D3097
268	Miscellaneous	MM/Non-Friable	Black Sink Undercoating	
69	Walls	MM/Non-Friable	Metal Pan Wall Panels	C3010
270	Walls	MM/Non-Friable	4" Blue Baseboard	C3026
271	Walls	MM/Non-Friable	Gray Wall Panel Soft Caulk	C3010
272	Walls	MM/Non-Friable	Gray Wall Panel Hard Caulk	C3010
273	Walls	MM/Non-Friable	Gray Brick Caulk	C3010
274	Walls	MM/Non-Friable	Black Brick Caulk	C3010
275	Walls	MM/Non-Friable	Black Fiberglass Wall/Door Insulation	C3010
276	Walls	MM/Non-Friable	4" White Baseboard	C3026
277	Ceiling	MM/Friable	2 X 4 Ceiling Tile Pinholes and Squiggles	C3032
278	Ceiling	SM/Friable	Gray Spray-on	C3031
279	Ceiling	SM/Friable	White Spray-on	C3031
280	Ceiling	SM/Friable	Green Spray-on	C3031
281	Flooring	MM/Non-Friable	12 x 12 Black Floor Tile with Mastic	C3024
282	Flooring	MM/Non-Friable	12 x 12 White Floor Tile with Black Indentations and Mastic	C3024
283	HVAC	MM/Non-Friable	Gray HVAC Caulk	D3097
285	Ceiling	MM/Friable	2 X 4 Ceiling Tile, White with Light Texture Pattern	C3032

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IA#	System	Type	Description	Uniformat Code
286	Ceiling	MM/Friable	2 x 2 Ceiling Tile, White, Flat, Light Texture Pattern	C3032
287	Ceiling	MM/Non-Friable	2 X 2 Drop Ceiling Tile, White, Light Texture	C3032
288	Miscellaneous	TSI/Friable	Unknown air cell straight pipe with mud fittings	
89	Roof	MM/Non-Friable	Rock tar roofing with associated roof flashing	B3011
290	Roof	MM/Non-Friable	Gravel/membrane roofing with associated flashing	B3011
91	Roof	MM/Non-Friable	Torchdown roofing above suspect 4-ply felt roofing and associated flashing	B3011
292	Walls	MM/Non-Friable	White Glue Pods	C3010
93	Walls/Ceiling	MM/Non-Friable	Brown Glue Pods	C3010
294	Walls	SM/Friable	Spray-on Insulation, Brown	C3010
95	Flooring	MM/Non-Friable	12 x 12 Floor Tile, White with Blue Speckles and Mastic	C3024
296	Flooring	MM/Non-Friable	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic	C3024
297	Ceiling	MM/Friable	2 X 4 Ceiling tile, White, with Wormhole and Pinhole Pattern	C3032
98	Flooring	MM/Non-Friable	12 x 12 Gray Floor Tile with Gray Streaks and Mastic	C3024
299	Walls	SM/Friable	Spray-on Fireproofing White	C3010
00	Ceiling	MM/Friable	1 ft x 1 ft Fiberglass Ceiling Tile Painted Black	C3032
301	Ceiling	MM/Friable	1 x 2 Acoustical Ceiling Tile Pegboard Pattern	C3032
302	Ceiling	MM/Friable	1 x 1 Ceiling Tile Pegboard Pattern with Glue Pods	C3032
303	Ceiling	MM/Friable	1x1 Ceiling Tile Squiggle Pattern with Glue Pods	C3032
304	Ceiling	MM/Friable	1 x 1 Suspended Ceiling Tile	C3032
05	Ceiling	MM/Friable	1 x 1 Interlocked Ceiling Tile	C3032
306	Chilled Water	TSI/Friable	Mud Fittings on PVC Line	D3031
07	Chilled Water	TSI/Friable	Woolfelt with Mud Fittings	D3031
308	City Water	TSI/Friable	Woolfelt Line with Mud Fittings	D2021
309	Compressed Air	TSI/Friable	Woolfelt Line with Mud Fitting	D3041
10	Door	MM/Friable	Black Pressed Fibrous Door Seal	C1020
311	Drain Line	TSI/Friable	Woolfelt Line with Mud Fittings	D2040
312	Flooring	MM/Non-Friable	Blue Carpet Glue	C3023
13	Flooring	MM/Non-Friable	12 in x 12 in Wood Floor Tile with Mastic	C3024
314	Flooring	MM/Non-Friable	Light Grey with White Streaks Linoleum	C3024
15	Walls	MM/Non-Friable	4" Cream Baseboard	C3026
316	Flooring	MM/Non-Friable	12 in x 12 in Cream with Black Speckled Floor Tile with Mastic	C3024
17	Flooring	MM/Non-Friable	12 in x 12 in Cream with Red Specks Floor Tile with Mastic	C3024

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IA#	System	Type	Description	Uniformat Code
318	Flooring	MM/Non-Friable	Black Mastic under Carpet with Clear Carpet Glue	C3023
19	Flooring	MM/Non-Friable	Wood Block Flooring with Mastic	C3024
320	Flooring	MM/Non-Friable	9 in x 9 in Cream with Black Floor Tile with Mastic	C3024
21	Walls	MM/Non-Friable	4" Green Baseboard	C3026
322	Hot Water	TSI/Friable	"Domestic Hot Water" Line with Fiberglass Insulation and Mud Fittings	D2022
323	Hot Water	TSI/Friable	"Domestic Hot Water" Woolfelt Line with Mud Fittings	D2022
24	Miscellaneous	MM/Non-Friable	Black Exterior Sealant	
325	Miscellaneous	MM/Non-Friable	White Sink Undercoating	
26	Miscellaneous	MM/Non-Friable	Grey Sink Undercoating	
27	City Water	TSI/Friable	"Drinking" Woolfelt Line with Mud Fittings	D2021
328	Tower Water	TSI/Friable	Woolfelt Line with Mud Fittings	D2023
29	Walls	MM/Friable	Fibrous Wall Insulation	C3010
30	Window	MM/Non-Friable	Interior White Brittle Window Caulk	B2020
331	Ceiling	MM/Friable	9 X 9 Black, Gray, White	C3032
32	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Gray w/Dark and Light Streaks and Mastic	C3024
33	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Red w/Dark Streaks and Mastic	C3024
334	Flooring	MM/Non-Friable	12 in x 12 in Tan with White Streaks/Red Specks	C3024
35	Ceiling	MM/Friable	2 ft x 2 ft Drop Ceiling Tile, Textured with Pinhole Pattern	C3032
336	Ceiling	MM/Friable	2 x 4 Suspended Ceiling Tile Random Fissure with Pinhole Pattern	C3032
37	Ceiling	MM/Friable	2 ft x 2 ft Ceiling Tile, Random Fissure Pattern with Pinholes	C3032
38	Flooring	MM/Non-Friable	9 x 9 Floor Tile, Gray with Cream and Black Streaks and Mastic	C3024
339	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan with Brown Streaks and Mastic	C3024
40	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Red and Mastic	C3024
341	Flooring	MM/Non-Friable	9 in x 9 in Floor Tile, Red with Yellow Streaks and Mastic	C3024
42	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan with Brown and White Streaks and Mastic	C3024
43	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, White with Black Streaks and Mastic	C3024
344	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan and Black with White and Tan Streaks and Mastic	C3024

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ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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IA#	System	Type	Description	Uniformat Code
345	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Green and Blue and Mastic	C3024
346	Flooring	MM/Non-Friable	2 ft x 2 ft Floor Tile, White with Tan Streaks and Associated Mastic	C3024
47	Walls	TSI/Friable	Fire Proofing Material	D4090
348	Boiler	TSI/Friable	Boiler Insulation	D3024
349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type	D3024
50	Boiler	TSI/Friable	Boiler Gasket	D3022
351	Flooring	MM/Non-Friable	9 in x 9 in Floor Tile, Green with White Streaks and Mastic	C3024
52	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Light Green and Mastic	C3024
353	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Green with Light Streaks and Mastic	C3024
54	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Brown Marble Pattern and Mastic	C3024
55	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Black Polished Marble Pattern and Mastic	C3024
356	Miscellaneous	SM/Friable	Black Isolation Cloth	
57	Miscellaneous	SM/Friable	Cream Canvas Duct Insulation Cloth	
358	Valves	MM/Non-Friable	Rubberized Valve Gasket	
359	Miscellaneous	MM/Friable	White Brittle Door Caulk	
60	Miscellaneous	MM/Friable	White Wall/Door Caulk	
361	HVAC	MM/Friable	Fiberglass duct insulation with cream fiberous wrap	D3097
62	Miscellaneous	MM/Non-Friable	Gray Vinyl Isolation Joint	
363	Walls	MM/Non-Friable	4" Grey Baseboard	C3026
64	Walls	MM/Non-Friable	4" Tan Baseboards	C3026
365	Window	MM/Friable	Window Rope Gasket	B2020
366	Flooring	MM/Friable	9 x 9 Light Grey Floor Tile	C3024
67	Roof	MM/Friable	White Brittle Building Caulk	B3011
999			Possible Inaccessible/Hidden ACM Materials	
1000			No Suspect ACM Materials	

Master List Report of Assessment Category

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Category

(1) Damaged or significantly damaged thermal system insulation ACM.
(2) Damaged friable surfacing ACM.
(3) Significantly damaged friable surfacing ACM.
(4) Damaged or significantly damaged friable miscellaneous ACM.
(5) ACM with potential for damage.
(6) ACM with potential for significant damage.
(7) Any remaining friable ACM or friable suspect ACM.
(8) NA

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A#	System	Type	Description	Uniformat Code
)9			Possible Inaccessible/Hidden ACM Materials	
1000			No Suspect ACM Materials	
)9	Abandoned Line	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	
44	Abandoned Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	
10	Abandoned Line	TSI/Friable	Tar Caulk Wrap	
8	Abandoned Line	TSI/Friable	Millboard Type Straight Run Insulation	
08	Abandoned Line	TSI/Friable	Mud Fittings on Fiberglass Straight Line	
)7	Abandoned Line	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	
	Abandoned Line	TSI/Friable	Mud Fittings on Millboard Type Insulation	
)6	Abandoned Line	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	
)4	Abandoned Line	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	
103	Abandoned Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	
)5	Abandoned Line	TSI/Friable	Millboard Type Straight Run with Tar Layer	
102	Abandoned Line	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	
48	Boiler	TSI/Friable	Boiler Insulation	D3024
349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type	D3024
50	Boiler	TSI/Friable	Boiler Gasket	D3022
00	Ceiling	MM/Friable	1 ft x 1 ft Fiberglass Ceiling Tile Painted Black	C3032
69	Ceiling	MM/Friable	Snowflake Pattern Suspended Ceiling Tile	C3032
5	Ceiling	MM/Friable	Suspended Pin Hole Pattern Ceiling Tile	C3032
37	Ceiling	MM/Friable	2 ft x 2 ft Ceiling Tile, Random Fissure Pattern with Pinholes	C3032
	Ceiling	MM/Friable	Suspended, Random Fissure Pattern Ceiling Tile	C3032
29	Ceiling	MM/Friable	Suspended, Straw Pattern Tile	C3032
207	Ceiling	MM/Friable	Paper Backing from Metal Pan Ceiling Tile as Debris	C3032
285	Ceiling	MM/Friable	2 X 4 Ceiling Tile, White with Light Texture Pattern	C3032
86	Ceiling	MM/Friable	2 x 2 Ceiling Tile, White, Flat, Light Texture Pattern	C3032
56	Ceiling	MM/Friable	1 ft x 1 ft Splined Ceiling Tile	C3032
8	Ceiling	MM/Friable	Suspended, Coarse Deep Cut Textured	C3032

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HA#	System	Type	Description	Uniformat Code
241	Ceiling	MM/Friable	12 in x 12 in Metal Pan Ceiling Tile with Fiberglass & Paper Backing	C3032
277	Ceiling	MM/Friable	2 X 4 Ceiling Tile Pinholes and Squiggles	C3032
331	Ceiling	MM/Friable	9 X 9 Black, Gray, White	C3032
3	Ceiling	MM/Friable	12 in x 24 in Fibrous Insulation with Black Paper Ceiling Tile	C3032
305	Ceiling	MM/Friable	1 x 1 Interlocked Ceiling Tile	C3032
3	Ceiling	MM/Friable	Suspended, Knock Down Pattern Ceiling Water	C3032
304	Ceiling	MM/Friable	1 x 1 Suspended Ceiling Tile	C3032
336	Ceiling	MM/Friable	2 x 4 Suspended Ceiling Tile Random Fissure with Pinhole Pattern	C3032
302	Ceiling	MM/Friable	1 x 1 Ceiling Tile Pegboard Pattern with Glue Pods	C3032
8	Ceiling	MM/Friable	2 ft x 4 ft Suspended Canvas Covered Gypsum Board Smooth	C3032
97	Ceiling	MM/Friable	2 X 4 Ceiling tile, White, with Wormhole and Pinhole Pattern	C3032
335	Ceiling	MM/Friable	2 ft x 2 ft Drop Ceiling Tile, Textured with Pinhole Pattern	C3032
301	Ceiling	MM/Friable	1 x 2 Acoustical Ceiling Tile Pegboard Pattern	C3032
60	Ceiling	MM/Friable	2 ft x 4 ft Cloth with Fiberglass Suspended Ceiling Tile	C3032
303	Ceiling	MM/Friable	1x1 Ceiling Tile Squiggle Pattern with Glue Pods	C3032
287	Ceiling	MM/Non-Friable	2 X 2 Drop Ceiling Tile, White, Light Texture	C3032
78	Ceiling	SM/Friable	Gray Spray-on	C3031
111	Ceiling	SM/Friable	2 X 2 Ceiling Tile	C3032
79	Ceiling	SM/Friable	White Spray-on	C3031
80	Ceiling	SM/Friable	Green Spray-on	C3031
206	Ceiling	SM/Friable	1 x 2 Metal Pan Tile with Fiberglass and Paper Backing	C3032
112	Ceiling	SM/Friable	2 X 4 Ceiling Tile	C3032
88	Ceiling	SM/Friable	Plaster with Sprayed on	C3031
107	Chilled Water	TSI/Friable	Woolfelt with Mud Fittings	D3031
306	Chilled Water	TSI/Friable	Mud Fittings on PVC Line	D3031
32	Chilled Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3031
0	Chilled Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line with Aluminum Jacket	D3031
115	Chilled Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3031
81	Chilled Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3031
30	Chilled Water	TSI/Friable	Millboard Type Straight Run Insulation	D3031

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.IA#	System	Type	Description	Uniformat Code
79	Chilled Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3031
,2	Chilled Water	TSI/Friable	Tar Caulk Wrap	D3031
114	Chilled Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3031
16	Chilled Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3031
117	Chilled Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3031
118	Chilled Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3031
113	Chilled Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3031
19	Chilled Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3031
6	City Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2021
08	City Water	TSI/Friable	Woolfelt Line with Mud Fittings	D2021
327	City Water	TSI/Friable	"Drinking" Woolfelt Line with Mud Fittings	D2021
2	City Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2021
126	City Water	TSI/Friable	Tar Caulk Wrap	D2021
125	City Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2021
77	City Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2021
23	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2021
120	City Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2021
22	City Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2021
2	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2021
21	City Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2021
6	City Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2021
	City Water	TSI/Friable	Millboard Type Straight Run Insulation	D2021
124	City Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2021
26	Compressed Air	TSI/Friable	Mud Fittings on Compressed Air Fiberglass Line	D3041
227	Compressed Air	TSI/Friable	Mag Strait Run Insulation	D3041
309	Compressed Air	TSI/Friable	Woolfelt Line with Mud Fitting	D3041
3	Condensate	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3043
129	Condensate	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3043
56	Condensate	TSI/Friable	Tank, Mag Type Block Insulation	D3043
136	Condensate	TSI/Friable	Tar Caulk Wrap	D3043
28	Condensate	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3043

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A#	System	Type	Description	Uniformat Code
127	Condensate	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3043
[illegible]	Condensate	TSI/Friable	Tank Mudded Ends with Fiberglass Insulation	D3043
42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3043
[illegible]0	Condensate	TSI/Friable	Millboard Type Straight Run Insulation	D3043
131	Condensate	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3043
132	Condensate	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3043
133	Condensate	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3043
[illegible]34	Condensate	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3043
135	Condensate	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3043
[illegible]8	Condensor Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3031
100	Cooler	MM/Non-Friable	Black Tar Layer over Styrofoam	D3060
[illegible]5	Cooler	TSI/Friable	Cork Insulation	D3060
[illegible]66	Cooling Tower	TSI/Friable	Honeycomb Paper Filler	D3064
59	Debris	TSI/Friable	Suspect TSI Debris, Horsehair	
[illegible]4	Debris	TSI/Friable	Cork	
16	Debris	TSI/Friable	Suspect TSI Debris (Mostly Millboard, Mud & Caulk)	
[illegible]6	Debris	TSI/Friable	Suspect TSI Debris, Mag Type	
73	Debris	TSI/Friable	Tar Caulk Debris	
[illegible]5	Diesel Fuel	TSI/Friable	Mud Fittings on Fiberglass Straight Line (Painted Yellow)	D3010
245	Door	MM/Friable	Door Insulation; Acoustical Tile and Glue Pods	C1020
[illegible]10	Door	MM/Friable	Black Pressed Fibrous Door Seal	C1020
[illegible]208	Door	MM/Non-Friable	Yellow Wall Caulk	C1020
26	Door	MM/Non-Friable	Fire Door - (PACM)	C1021
[illegible]11	Drain Line	TSI/Friable	Woolfelt Line with Mud Fittings	D2040
139	Drain Line	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2040
[illegible]46	Drain Line	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2040
[illegible]45	Drain Line	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2040
[illegible]44	Drain Line	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2040
[illegible]43	Drain Line	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2040
142	Drain Line	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2040
[illegible]41	Drain Line	TSI/Friable	Millboard Type Straight Run Insulation	D2040
138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2040

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HA#	System	Type	Description	Uniformat Code
140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2040
47	Drain Line	TSI/Friable	Tar Caulk Wrap	D2040
137	Drain Line	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2040
4	Drain Line	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2040
366	Flooring	MM/Friable	9 x 9 Light Grey Floor Tile	C3024
263	Flooring	MM/Non-Friable	Black Floor Seal	C3023
3	Flooring	MM/Non-Friable	12 in x 12 in Black with White Streaks (Busy Pattern) Floor Tile	C3024
101	Flooring	MM/Non-Friable	Linoleum, Gray Multi-Colored Terrazzo Pattern	C3024
95	Flooring	MM/Non-Friable	12 x 12 Floor Tile, White with Blue Speckles and Mastic	C3024
4	Flooring	MM/Non-Friable	12 in x 12 in Brown with Red Specks Floor Tile	C3024
212	Flooring	MM/Non-Friable	Yellow Carpet Glue	C3023
259	Flooring	MM/Non-Friable	12 x 12 Yellow with Brown Floor Tile with Mastic	C3024
23	Flooring	MM/Non-Friable	12 in x 12 in Dark Olive with Black, White & Red Specks	C3024
60	Flooring	MM/Non-Friable	Clear Carpet Glue	C3023
261	Flooring	MM/Non-Friable	Red Tile & Black Mortar	C3024
1	Flooring	MM/Non-Friable	Linoleum, Brown Light & Dark Pebblestone (larger Pattern)	C3024
262	Flooring	MM/Non-Friable	Blue/Black Floor Glue	C3023
7	Flooring	MM/Non-Friable	Linoleum, Tan Terrazzo Pattern	C3024
13	Flooring	MM/Non-Friable	Black Carpet Glue	C3023
209	Flooring	MM/Non-Friable	9 x 9 Black Floor Tile with Black Mastic	C3024
11	Flooring	MM/Non-Friable	Orange Carpet Glue	C3023
210	Flooring	MM/Non-Friable	12 in x12 in Cream with Brown specks with Black Mastic	C3024
8	Flooring	MM/Non-Friable	Linoleum, Brown Terrazzo Pattern	C3024
21	Flooring	MM/Non-Friable	Linoleum, Gray with Black & White Specks	C3024
281	Flooring	MM/Non-Friable	12 x 12 Black Floor Tile with Mastic	C3024
82	Flooring	MM/Non-Friable	12 x 12 White Floor Tile with Black Indentations and Mastic	C3024
246	Flooring	MM/Non-Friable	12 in x 12 in Brown Floor Tile with White Specks & Black Mastic	C3024
214	Flooring	MM/Non-Friable	12 in x 12 in Cream color Floor Tile with Black Mastic	C3024
34	Flooring	MM/Non-Friable	12 in x 12 in Tan with White Streaks/Red Specks	C3024
346	Flooring	MM/Non-Friable	2 ft x 2 ft Floor Tile, White with Tan Streaks and Associated Mastic	C3024

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IA#	System	Type	Description	Uniformat Code
74	Flooring	MM/Non-Friable	9 in x 9 in Black with White & Blue Splats Floor Tile	C3024
45	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Green and Blue and Mastic	C3024
44	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan and Black with White and Tan Streaks and Mastic	C3024
343	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, White with Black Streaks and Mastic	C3024
339	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan with Brown Streaks and Mastic	C3024
20	Flooring	MM/Non-Friable	9 in x 9 in Cream with Black Floor Tile with Mastic	C3024
62	Flooring	MM/Non-Friable	Linoleum, Cream with Light & Dark Pebblestone Large Pattern	C3024
341	Flooring	MM/Non-Friable	9 in x 9 in Floor Tile, Red with Yellow Streaks and Mastic	C3024
40	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Red and Mastic	C3024
35	Flooring	MM/Non-Friable	12 in x 12 in Cream with Light & Dark Streaks Floor Tile	C3024
38	Flooring	MM/Non-Friable	9 x 9 Floor Tile, Gray with Cream and Black Streaks and Mastic	C3024
342	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Tan with Brown and White Streaks and Mastic	C3024
50	Flooring	MM/Non-Friable	12 in x 12 in Brown with Black Streaks Floor Tile	C3024
33	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Red w/Dark Streaks and Mastic	C3024
5	Flooring	MM/Non-Friable	12 in x 12 in Light Gray with Light Streaks Floor Tile	C3024
64	Flooring	MM/Non-Friable	Linoleum, Orange & Red Pebblestone Larger Pattern	C3024
3	Flooring	MM/Non-Friable	12 in x 12 in Gray Blue Busy Pattern Floor Tile	C3024
51	Flooring	MM/Non-Friable	Linoleum, Tan Sandstone	C3024
32	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Gray w/Dark and Light Streaks and Mastic	C3024
52	Flooring	MM/Non-Friable	18 in x 18 in Gray with Dark Gray & White Streaks Floor Tile	C3024
54	Flooring	MM/Non-Friable	9 in x 9 in Tan with Light & Dark Streaks Floor Tile	C3024
1	Flooring	MM/Non-Friable	12 in x 12 in Mauve with Dark & Light Streaks Floor Tile	C3024
254	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Brown Marble Pattern and Mastic	C3024

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HA#	System	Type	Description	Uniformat Code
298	Flooring	MM/Non-Friable	12 x 12 Gray Floor Tile with Gray Streaks and Mastic	C3024
6	Flooring	MM/Non-Friable	9 in x 9 in Light Brown with Light & Dark Specks Floor Tile	C3024
	Flooring	MM/Non-Friable	Linoleum, Gray Sandstone	C3024
12	Flooring	MM/Non-Friable	Blue Carpet Glue	C3023
355	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Black Polished Marble Pattern and Mastic	C3024
352	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Light Green and Mastic	C3024
43	Flooring	MM/Non-Friable	Linoleum, Off White with Gray Terrazzo Pattern	C3024
96	Flooring	MM/Non-Friable	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic	C3024
7	Flooring	MM/Non-Friable	9 in x 9 in Gray with Cream Streaks Floor Tile	C3024
6	Flooring	MM/Non-Friable	Linoleum, Multi Colored Terrazzo Pattern (Dark)	C3024
353	Flooring	MM/Non-Friable	12 in x 12 in Floor Tile, Green with Light Streaks and Mastic	C3024
13	Flooring	MM/Non-Friable	12 in x 12 in Wood Floor Tile with Mastic	C3024
319	Flooring	MM/Non-Friable	Wood Block Flooring with Mastic	C3024
1	Flooring	MM/Non-Friable	12 in x 12 in Black with Light & Dark Spots Floor Tile	C3024
91	Flooring	MM/Non-Friable	12 in x 12 in Tan with Cream Streaks Floor Tile	C3024
0	Flooring	MM/Non-Friable	12 in x 12 in Dark Olive with Light & Dark Spots (Camouflage) Floor Tile	C3024
9	Flooring	MM/Non-Friable	Linoleum, Multi Colored Terrazzo Pattern (Light)	C3024
318	Flooring	MM/Non-Friable	Black Mastic under Carpet with Clear Carpet Glue	C3023
17	Flooring	MM/Non-Friable	12 in x 12 in Cream with Red Specks Floor Tile with Mastic	C3024
16	Flooring	MM/Non-Friable	12 in x 12 in Cream with Black Speckled Floor Tile with Mastic	C3024
351	Flooring	MM/Non-Friable	9 in x 9 in Floor Tile, Green with White Streaks and Mastic	C3024
14	Flooring	MM/Non-Friable	Light Grey with White Streaks Linoleum	C3024
148	Flooring	SM/Friable	12 x 12 Floor Tile, Gray with Gray & White Streaks	C3024
23	Hot Water	TSI/Friable	"Domestic Hot Water" Woolfelt Line with Mud Fittings	D2022
24	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" White Woolfelt Line	D2022
243	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" Fiberglass Line	D2022

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IA#	System	Type	Description	Uniformat Code
244	Hot Water	TSI/Friable	Mud Fittings on "Domestic Hot Water" Aircell Line	D2022
22	Hot Water	TSI/Friable	"Domestic Hot Water" Line with Fiberglass Insulation and Mud Fittings	D2022
42	Hot Water	TSI/Friable	"Domestic Hot Water" Line with Mag Insulation	D2022
221	HVAC	MM/Friable	White Canvas Isolation Cloth Vibration Damper	D3097
264	HVAC	MM/Friable	Gray Vinyl Smooth Vibration Damper	D3097
61	HVAC	MM/Friable	Fiberglass duct insulation with cream fiberous wrap	D3097
25	HVAC	MM/Friable	Canvas (Smooth) Expansion/Vibration Joint	D3097
65	HVAC	MM/Friable	Gray Vinyl Textured Vibration Damper	D3097
222	HVAC	MM/Friable	Black Rubber Isolation Joint Vibration Damper	D3097
15	HVAC	MM/Friable	Cream Paper Duct Insulation	D3097
223	HVAC	MM/Non-Friable	Black Conduit Putty	D3097
218	HVAC	MM/Non-Friable	White Putty Sealant	D3097
17	HVAC	MM/Non-Friable	Black Putty Sealant	D3097
216	HVAC	MM/Non-Friable	Black Rubber Sealant	D3097
220	HVAC	MM/Non-Friable	Silver Sealant	D3097
66	HVAC	MM/Non-Friable	Green Canvas Vibration Damper	D3097
283	HVAC	MM/Non-Friable	Gray HVAC Caulk	D3097
67	HVAC	MM/Non-Friable	Canvas Vibration Damper	D3097
1	HVAC	MM/Non-Friable	Heavy Woven Canvas Gasket	D3097
219	HVAC	MM/Non-Friable	Black Door Seal	D3097
5	HVAC	MM/Non-Friable	Tar & Nylon Gasket	D3097
99	HVAC	SM/Friable	Troweled-on Plaster Material	D3097
149	HVAC	TSI/Friable	Rectangular Duct Work	D3097
8	HVAC	TSI/Friable	Black Fibrous Insulation on Interior of Duct (Pinned on)	D3097
20	HVAC	TSI/Friable	Mud Fittings on Fiberglass Line (Strand Units)	D3097
49	HVAC	TSI/Friable	Brown Fiberous Insulation	D3097
248	HVAC	TSI/Friable	Brown Duct Insulation	D3097
47	HVAC	TSI/Friable	Black Fiberglass Duct Insulation	D3097
57	HVAC	TSI/Friable	Fibrous Glass with Canvas & Mud	D3097
31	HVAC	TSI/Friable	Fiberglass Blanket with Canvas & Paper Backing	D3097
7	Lab Top	MM/Non-Friable	Black Slate/Transite Materials	E2012
360	Miscellaneous	MM/Friable	White Wall/Door Caulk	
259	Miscellaneous	MM/Friable	White Brittle Door Caulk	
50	Miscellaneous	MM/Friable	Pressed Fiberous Board	
325	Miscellaneous	MM/Non-Friable	White Sink Undercoating	
37	Miscellaneous	MM/Non-Friable	Transite Panels	
268	Miscellaneous	MM/Non-Friable	Black Sink Undercoating	

Master List Report of HA Number

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

.IA#	System	Type	Description	Uniformat Code
362	Miscellaneous	MM/Non-Friable	Gray Vinyl Isolation Joint	
52	Miscellaneous	MM/Non-Friable	White Vinyl Isolation Cloth	
237	Miscellaneous	MM/Non-Friable	Black Vinyl Isolation Cloth	
251	Miscellaneous	MM/Non-Friable	Black Rubber Isolation Joint	
24	Miscellaneous	MM/Non-Friable	Black Exterior Sealant	
253	Miscellaneous	MM/Non-Friable	Fire Rated File Cabinets	
50	Miscellaneous	MM/Non-Friable	Brown caulk	
26	Miscellaneous	MM/Non-Friable	Grey Sink Undercoating	
357	Miscellaneous	SM/Friable	Cream Canvas Duct Insulation Cloth	
56	Miscellaneous	SM/Friable	Black Isolation Cloth	
288	Miscellaneous	TSI/Friable	Unknown air cell straight pipe with mud fittings	
238	Miscellaneous	TSI/Friable	Mud Fittings on Unidentified Fiberglass Line	
39	Miscellaneous	TSI/Friable	Mag Insulation and Fittings in Unidentified Line	
240	Miscellaneous	TSI/Friable	Mud Fittings on Woolfelt Line	
255	Miscellaneous	TSI/Friable	Green Tank Insulation (Hot Water)	
57	Miscellaneous	TSI/Friable	Brown Corrugated Paper	
254	Miscellaneous	TSI/Friable	"Snow Melt" Line with Mag Insulation	
56	Miscellaneous	TSI/Friable	Mag Silver Tank Insulation	
54	Oven	MM/Friable	Firebrick with Mortor	E1029
34	Oven	MM/Non-Friable	Heavy Woven Door Gasket	E1029
67	Roof	MM/Friable	White Brittle Building Caulk	B3011
290	Roof	MM/Non-Friable	Gravel/membrane roofing with associated flashing	B3011
89	Roof	MM/Non-Friable	Rock tar roofing with associated roof flashing	B3011
291	Roof	MM/Non-Friable	Torchdown roofing above suspect 4-ply felt roofing and associated flashing	B3011
3	Roof	MM/Non-Friable	Roof Flashing on Building Exterior	B3014
92	Roof	MM/Non-Friable	Flat Roofing on Building Exterior	B1021
7	Roof	MM/Non-Friable	Rolled Roofing on Interior Buildings	B3011
158	Roof Drain	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2042
19	Roof Drain	TSI/Friable	Millboard Type Straight Run Insulation	D2042
0	Roof Drain	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2042
159	Roof Drain	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2042
57	Roof Drain	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2042
156	Roof Drain	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2042
154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2042
53	Roof Drain	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2042

Master List Report of HA Number

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HA#	System	Type	Description	Uniformat Code
152	Roof Drain	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2042
51	Roof Drain	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2042
228	Roof Drain	TSI/Friable	Mud Fittings on Brown Woolfelt Line	D2042
55	Roof Drain	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2042
160	Roof Drain	TSI/Friable	Tar Caulk Wrap	D2042
162	Salvage Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2090
69	Salvage Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2090
168	Salvage Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2090
67	Salvage Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2090
66	Salvage Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2090
165	Salvage Water	TSI/Friable	Millboard Type Straight Run Insulation	D2090
163	Salvage Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2090
161	Salvage Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2090
70	Salvage Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2090
164	Salvage Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2090
8	Salvage Water	TSI/Friable	Mud Fittings on Fiberglass Straight Run	D2090
171	Salvage Water	TSI/Friable	Tar Caulk Wrap	D2090
225	Sanitary Piping	TSI/Friable	Mud Fittings on Woolfelt Sanitary Sewer Line	G3030
7	Sanitary Piping	TSI/Friable	Mud Fittings on Fiberglass Straight Line	G3030
181	Sanitary Piping	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	G3030
179	Sanitary Piping	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	G3030
82	Sanitary Piping	TSI/Friable	Tar Caulk Wrap	G3030
178	Sanitary Piping	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	G3030
77	Sanitary Piping	TSI/Friable	Millboard Type Straight Run with Tar Layer	G3030
176	Sanitary Piping	TSI/Friable	Millboard Type Straight Run Insulation	G3030
175	Sanitary Piping	TSI/Friable	Mag Type Straight Run & Fittings Insulation	G3030
74	Sanitary Piping	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	G3030
173	Sanitary Piping	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	G3030
72	Sanitary Piping	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	G3030
80	Sanitary Piping	TSI/Friable	Mud Fittings on Millboard Type Insulation	G3030
189	Steam	TSI/Friable	Tar Caulk Wrap	D3043

Master List Report of HA Number

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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IA#	System	Type	Description	Uniformat Code
10	Steam	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D3043
5	Steam	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D3043
12	Steam	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D3043
188	Steam	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D3043
87	Steam	TSI/Friable	Mud Fittings on Millboard Type Insulation	D3043
186	Steam	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D3043
85	Steam	TSI/Friable	Millboard Type Straight Run with Tar Layer	D3043
11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D3043
83	Steam	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D3043
7	Steam	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D3043
84	Steam	TSI/Friable	Millboard Type Straight Run Insulation	D3043
98	Tower Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	D2023
199	Tower Water	TSI/Friable	Mud Fittings on Millboard Type Insulation	D2023
28	Tower Water	TSI/Friable	Woolfelt Line with Mud Fittings	D2023
196	Tower Water	TSI/Friable	Mud & Horsehair Fittings on Fiberglass Straight Line	D2023
00	Tower Water	TSI/Friable	Mud Fittings on Millboard Type Insulation with Tar Layer	D2023
190	Tower Water	TSI/Friable	Aircell (Gray Paper) Type Straight Run Insulation	D2023
201	Tower Water	TSI/Friable	Tar Caulk Wrap	D2023
197	Tower Water	TSI/Friable	Mud Fittings on Aircell (Gray Paper) Type Insulation	D2023
195	Tower Water	TSI/Friable	Millboard Type Straight Run with Tar Layer	D2023
94	Tower Water	TSI/Friable	Millboard Type Straight Run Insulation	D2023
193	Tower Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	D2023
192	Tower Water	TSI/Friable	Horsehair Insulation over Mag Type Block with Tar Paper	D2023
191	Tower Water	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	D2023
358	Valves	MM/Non-Friable	Rubberized Valve Gasket	
8	Valves	MM/Non-Friable	Pressed Fibrous Gaskets	
329	Walls	MM/Friable	Fibrous Wall Insulation	C3010
269	Walls	MM/Non-Friable	Metal Pan Wall Panels	C3010
36	Walls	MM/Non-Friable	White Brittle Door Caulk	C3010
321	Walls	MM/Non-Friable	4" Green Baseboard	C3026
35	Walls	MM/Non-Friable	4" Reddish Brown Baseboard	C3026
270	Walls	MM/Non-Friable	4" Blue Baseboard	C3026

Master List Report of HA Number

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HA#	System	Type	Description	Uniformat Code
271	Walls	MM/Non-Friable	Gray Wall Panel Soft Caulk	C3010
72	Walls	MM/Non-Friable	Gray Wall Panel Hard Caulk	C3010
273	Walls	MM/Non-Friable	Gray Brick Caulk	C3010
275	Walls	MM/Non-Friable	Black Fiberglass Wall/Door Insulation	C3010
76	Walls	MM/Non-Friable	4" White Baseboard	C3026
315	Walls	MM/Non-Friable	4" Cream Baseboard	C3026
292	Walls	MM/Non-Friable	White Glue Pods	C3010
74	Walls	MM/Non-Friable	Black Brick Caulk	C3010
363	Walls	MM/Non-Friable	4" Grey Baseboard	C3026
34	Walls	MM/Non-Friable	4" Brown Baseboard	C3026
233	Walls	MM/Non-Friable	4" Gray Baseboard	C3026
364	Walls	MM/Non-Friable	4" Tan Baseboards	C3026
29	Walls	MM/Non-Friable	6" Black Baseboard	C3026
230	Walls	MM/Non-Friable	4" Black Baseboard	C3026
231	Walls	MM/Non-Friable	Black Building Wall Caulk	C3010
32	Walls	MM/Non-Friable	White Door Caulk to Wall	C3010
294	Walls	SM/Friable	Spray-on Insulation, Brown	C3010
02	Walls	SM/Friable	Spray-on Wall	C3010
9	Walls	SM/Friable	Cork Insulation with Brown Adhesive	C3010
299	Walls	SM/Friable	Spray-on Fireproofing White	C3010
47	Walls	TSI/Friable	Fire Proofing Material	D4090
27	Walls	TSI/Friable	Fibrous Insulation with Black Backing Inside of Slotted Walls	C3010
04	Walls/Ceiling	MM/Friable	Smooth Plaster	C1011
293	Walls/Ceiling	MM/Non-Friable	Brown Glue Pods	C3010
203	Walls/Ceiling	SM/Friable	Drywall with Trowel on Plaster	C1011
8	Walls/Ceiling	SM/Friable	Plaster with Mesh	C1011
49	Walls/Ceiling	SM/Friable	Drywall & Mud	C1011
205	Walls/Ceiling	SM/Friable	Textured Plaster	C1011
365	Window	MM/Friable	Window Rope Gasket	B2020
7	Window	MM/Non-Friable	Caulk, Brittle on Exterior Walls	B2020
258	Window	MM/Non-Friable	White Window Glazing	B2020
330	Window	MM/Non-Friable	Interior White Brittle Window Caulk	B2020
70	Wiring	MM/Non-Friable	Woven Wire Insulation	D5010

WFG-FM Asbestos Tracking Tool (ATT)

Survey Start: 3/31/2008 **Survey Stop:** 4/16/2008 **GM Project Number:** GMS15876
Company: Emerald Environmental, Inc.
Primary Contact: Steve Elliott **Phone:** 330-842-0288

Survey Data Report by Assessment Category

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

Service providers are fully responsible for the quality and accuracy of the informat

Item	HA #	Floor	Level	Grid Location Start,End,Region	Type	System	Description	C
1	123	01	10-20	S30,V32	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
2	123	01	10-20	S30,V32	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
3	123	01	10-20	S30,V32	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
5	66	01	20-30	V25,V25,R	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
6	11	01	10-20	V25,V24,R	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
7	296	01	0-10	Y14,Y15,R	MM/Non-Friable	Flooring	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic	
8	49	01	0-10	Y14,Y15,R	SM/Friable	Walls/Ceiling	Drywall & Mud	
10	66	01	40+	W30,W30,R	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
11	123	01	0-10	W30,W30,R	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
12	123	01	0-10	Y30,AC28	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
13	123	01	0-10	T27,V27	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
14	123	01	20-30	S28,X29	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
15	11	02	30-40	W16,XX27	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
16	42	01	30-40	W20,X27	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	
17	42	02	30-40	W29,W28,R	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	

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ion in this report.

Quantification		Assessment Category	ACM Presence
Qty	Unit		
32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
95	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
35	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
1750	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
24	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
298	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
48	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive

Survey Data Report by Assessment Category

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

Service providers are fully responsible for the quality and accuracy of the informat

Item	HA #	Floor	Level	Grid Location Start,End,Region	Type	System	Description	C
18	123	L1	10-20	X29,T28	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
19	11	02	20-30	W26,T28	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
20	66	02	20-30	X29,Y29; X29,Y29	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
22	123	02	20-30	AB31,Y26; AB31,Y26	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
23	123	02	20-30	AB31,Y26; AB31,Y26	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
24	11	01	0-10	AD28,AD19; AD28,AD19	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
25	11	01	0-10	AD28,AC19; AD28,AC19	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
26	66	01	0-10	AD21,AD21; AD21,AD21,R	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
27	11	01	0-10	AD28,AD21; AD28,AD21	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
28	42	02	0-10	AD28,AD21; AD28,AD21	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	
29	11	02	20-30	AD26,X19	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
30	348	02	0-10	X25,X25,R	TSI/Friable	Boiler	Boiler Insulation	
31	348	02	10-20	AB25,AB25,R	TSI/Friable	Boiler	Boiler Insulation	
32	348	02	0-10	Y24,X26	TSI/Friable	Boiler	Boiler Insulation	
33	349	02	10-20	AB25,AB25,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
34	123	02	0-10	X26,AB26	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
35	349	02	10-20	AB25,AB24,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
36	348	02	10-20	X22,X22,R	TSI/Friable	Boiler	Boiler Insulation	

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ion in this report.

Quantification		Assessment Category	ACM
Qty	Unit		Presence
75	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
144	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
554	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
160	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
120	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
145	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
79	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
190	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
315	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
370	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
1100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive

Survey Data Report by Assessment Category

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

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Item	HA #	Floor	Level	Grid Location Start,End,Region	Type	System	Description	C
37	348	02	10-20	AB22,AB22,R	TSI/Friable	Boiler	Boiler Insulation	
38	348	02	0-10	Y21,X23	TSI/Friable	Boiler	Boiler Insulation	
39	349	02	10-20	AB22,AB22,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
40	123	02	0-10	X23,AB23	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
41	349	02	10-20	AB22,AB21	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
42	349	03	0-10	AB21,AB21,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
43	348	01	0-10	X19,X19,R	TSI/Friable	Boiler	Boiler Insulation	
44	348	02	10-20	AB19,AB19,R	TSI/Friable	Boiler	Boiler Insulation	
45	348	02	0-10	Y18,X20	TSI/Friable	Boiler	Boiler Insulation	
46	349	02	10-20	AB19,AB19,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
47	123	02	0-10	X20,AB20	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
48	349	02	10-20	AB19,AB18,R	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	
49	154	03	10-20	V27,Y18	TSI/Friable	Roof Drain	Mag Type Straight Run & Fittings Insulation	
50	11	M3	10-20	Y17,Y17,R	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
51	42	M3	10-20	Y17,Y17,R	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	
52	140	02	10-20	Y27,Y29; Y27,Y29,R	TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	
54	348	01	0-10	Y25,Y25,R	TSI/Friable	Boiler	Boiler Insulation	
55	348	01	0-10	Y22,Y22,R	TSI/Friable	Boiler	Boiler Insulation	

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ion in this report.

Quantification Qty	Unit	Assessment Category	ACM Presence
1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
115	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
72	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
54	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
52	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative

Survey Data Report by Assessment Category

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

Service providers are fully responsible for the quality and accuracy of the informat

Item	HA #	Floor	Level	Grid Location Start,End,Region	Type	System	Description	C
56	348	01	0-10	Y19,Y19,R	TSI/Friable	Boiler	Boiler Insulation	
57	138	02	0-10	X26,AD19	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	
58	138	02	0-10	X23,AD19	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	
59	138	02	0-10	X20,AD19	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	
61	11	L1	0-10	AD17,S29	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
62	123	L1	0-10	AD17,W31	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
63	123	L1	0-10	AB18,X28	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
64	123	L1	0-10	AB18,X28	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
65	42	L1	0-10	AD17,V31	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	
66	140	L1	0-10	AD17,W32	TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	
67	123	L1	0-10	AD32,Y28	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	
68	66	L1	0-10	AB18,AC19	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
69	66	L1	0-10	Y29,AB29	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	
70	11	L1	0-10	Y21,AC30	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
71	22	L1	0-10	W28,S32	TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	
72	22	L1	0-10	AC28,W32	TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	
21	11	02	10-20	X27,X30; X27,X30	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	
60	258	02	10-20	Q11,AD31	MM/Non-Friable	Window	White Window Glazing	

tment Bldg

ion in this report.

Quantification Qty	Unit	Assessment Category	ACM Presence
24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
130	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
80	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
55	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
150	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
140	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
665	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
590	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
535	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
330	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
435	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
495	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
38	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
715	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
40	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	Positive
4500	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	Positive

Survey Data Report by Assessment Category

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

Service providers are fully responsible for the quality and accuracy of the informat

Item	HA #	Floor	Level	Grid Location Start,End,Region	Type	System	Description	C
4	95	01	10-20	W29,W29,R	TSI/Friable	Diesel Fuel	Mud Fittings on Fiberglass Straight Line (Painted Yellow)	
73	87	01	10-20	K11,Q14	MM/Non-Friable	Miscellaneous	Transite Panels	
9	202	01	10-20	Q11,AD31	SM/Friable	Walls	Spray-on Wall	

tment Bldg

ion in this report.

Quantification Qty	Unit	Assessment Category	ACM Presence
120	LF	(5) ACM with potential for damage.	Positive
770	SF	(6) ACM with potential for significant damage.	Positive
5200	SF	(7) Any remaining friable ACM or friable suspect ACM.	Negative

WFG-FM Asbestos Tracking Tool (ATT)

Survey Start: 3/31/2008 **Survey Stop:** 4/16/2008 **GM Project Number:** GMS15876
Company: Emerald Environmental, Inc.
Primary Contact: Steve Elliott **Phone:** 330-842-0288

QC Report of QC Entries

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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em	Grid Start	Grid End	Error Message

Floor List Report

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Trea

Service providers are fully responsible for the quality and accuracy of the information in this report.

Floor
01
02
03
L1
M3

Survey Data Report by HA

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Item	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
6	11	01	10-20	V25,V24,R		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	35	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
15	11	02	30-40	W16,XX27		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	298	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
19	11	02	20-30	W26,T28		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	144	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
21	11	02	10-20	X27,X30; X27,X30		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	40	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	Positive
24	11	01	0-10	AD28,AD19; AD28,AD19		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	145	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
25	11	01	0-10	AD28,AC19; AD28,AC19		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
27	11	01	0-10	AD28,AD21; AD28,AD21		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	190	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
29	11	02	20-30	AD26,X19		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	370	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
50	11	M3	10-20	Y17,Y17,R		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	54	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
61	11	L1	0-10	AD17,S29		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
70	11	L1	0-10	Y21,AC30		TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	495	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
								Total Quantity:	**2,481**			

Survey Data Report by HA

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Item	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
71	22	L1	0-10	W28,S32		TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	38	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
72	22	L1	0-10	AC28,W32		TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	715	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**753**			
16	42	01	30-40	W20,X27		TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
17	42	02	30-40	W29,W28,R		TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	48	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
28	42	02	0-10	AD28,AD21; AD28,AD21		TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	315	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
51	42	M3	10-20	Y17,Y17,R		TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	52	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
65	42	L1	0-10	AD17,V31		TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	665	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
								Total Quantity:	**1,260**			
8	49	01	0-10	Y14,Y15,R		SM/Friable	Walls/Ceiling	Drywall & Mud	144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**144**			
5	66	01	20-30	V25,V25,R		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	95	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
10	66	01	40+	W30,W30,R		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	1750	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
20	66	02	20-30	X29,Y29; X29,Y29		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	554	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
26	66	01	0-10	AD21,AD21; AD21,AD21,R		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	79	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
68	66	L1	0-10	AB18,AC19		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	330	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive

Survey Data Report by HA

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Item	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
69	66	L1	0-10	Y29,AB29		TSI/Friable	Condensate	Tank, Mag Type Block Insulation	435	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
								Total Quantity:	**3,243**			
73	87	01	10-20	K11,Q14		MM/Non-Friable	Miscellaneous	Transite Panels	770	SF	(6) ACM with potential for significant damage.	Positive
								Total Quantity:	**770**			
4	95	01	10-20	W29,W29,R		TSI/Friable	Diesel Fuel	Mud Fittings on Fiberglass Straight Line (Painted Yellow)	120	LF	(5) ACM with potential for damage.	Positive
								Total Quantity:	**120**			
1	123	01	10-20	S30,V32		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
2	123	01	10-20	S30,V32		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
3	123	01	10-20	S30,V32		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
11	123	01	0-10	W30,W30,R		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
12	123	01	0-10	Y30,AC28		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
13	123	01	0-10	T27,V27		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	24	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
14	123	01	20-30	S28,X29		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
18	123	L1	10-20	X29,T28		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	75	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
22	123	02	20-30	AB31,Y26; AB31,Y26		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	160	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
23	123	02	20-30	AB31,Y26; AB31,Y26		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	120	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative

Survey Data Report by HA

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Item	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
34	123	02	0-10	X26,AB26		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
40	123	02	0-10	X23,AB23		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
47	123	02	0-10	X20,AB20		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
62	123	L1	0-10	AD17,W31		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
63	123	L1	0-10	AB18,X28		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	150	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
64	123	L1	0-10	AB18,X28		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	140	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
67	123	L1	0-10	AD32,Y28		TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	535	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**2,410**			
57	138	02	0-10	X26,AD19		TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	130	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
58	138	02	0-10	X23,AD19		TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	80	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
59	138	02	0-10	X20,AD19		TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	55	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
								Total Quantity:	**265**			
52	140	02	10-20	Y27,Y29; Y27,Y29,R		TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
66	140	L1	0-10	AD17,W32		TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	590	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**650**			
49	154	03	10-20	V27,Y18		TSI/Friable	Roof Drain	Mag Type Straight Run & Fittings Insulation	180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative

Survey Data Report by HA

ite: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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tem	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
								Total Quantity:	**180**			
9	202	01	10-20	Q11,AD31		SM/Friable	Walls	Spray-on Wall	5200	SF	(7) Any remaining friable ACM or friable suspect ACM.	Negative
								Total Quantity:	**5,200**			
60	258	02	10-20	Q11,AD31		MM/Non-Friable	Window	White Window Glazing	4500	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	Positive
								Total Quantity:	**4,500**			
7	296	01	0-10	Y14,Y15,R		MM/Non-Friable	Flooring	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic	144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**144**			
30	348	02	0-10	X25,X25,R		TSI/Friable	Boiler	Boiler Insulation	168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
31	348	02	10-20	AB25,AB25,R		TSI/Friable	Boiler	Boiler Insulation	1100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
32	348	02	0-10	Y24,X26		TSI/Friable	Boiler	Boiler Insulation	100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
36	348	02	10-20	X22,X22,R		TSI/Friable	Boiler	Boiler Insulation	168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
37	348	02	10-20	AB22,AB22,R		TSI/Friable	Boiler	Boiler Insulation	1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
38	348	02	0-10	Y21,X23		TSI/Friable	Boiler	Boiler Insulation	100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
43	348	01	0-10	X19,X19,R		TSI/Friable	Boiler	Boiler Insulation	168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
44	348	02	10-20	AB19,AB19,R		TSI/Friable	Boiler	Boiler Insulation	1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
45	348	02	0-10	Y18,X20		TSI/Friable	Boiler	Boiler Insulation	100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive

Survey Data Report by HA

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Item	HA #	Floor	Level	Grid Location Start	Grid Location End	Type	System	Description	Quantification Qty	Quantification Unit	Assessment Category	ACM Presence
54	348	01	0-10	Y25,Y25,R		TSI/Friable	Boiler	Boiler Insulation	24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
55	348	01	0-10	Y22,Y22,R		TSI/Friable	Boiler	Boiler Insulation	24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
56	348	01	0-10	Y19,Y19,R		TSI/Friable	Boiler	Boiler Insulation	24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**4,676**			
33	349	02	10-20	AB25,AB25,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
35	349	02	10-20	AB25,AB24,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
39	349	02	10-20	AB22,AB22,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
41	349	02	10-20	AB22,AB21		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	115	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
42	349	03	0-10	AB21,AB21,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	72	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
46	349	02	10-20	AB19,AB19,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Positive
48	349	02	10-20	AB19,AB18,R		TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type	125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	Negative
								Total Quantity:	**1,397**			

WFG-FM Asbestos Tracking Tool (ATT)

Survey Start: 3/31/2008 **Survey Stop:** 4/16/2008 **GM Project Number:** GMS15876
Company: Emerald Environmental, Inc.
Primary Contact: Steve Elliott **Phone:** 330-842-0288

Survey Data Report by Item

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Present
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
1	01	10-20	S30	V32		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
2	01	10-20	S30	V32		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-001		Negative
3	01	10-20	S30	V32		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	32	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
4	01	10-20	W29	W29	R	95	TSI/Friable	Diesel Fuel	Mud Fittings on Fiberglass Straight Line (Painted Yellow)		120	LF	(5) ACM with potential for damage.	08-0330-02	0588-2008-0010	Positive
5	01	20-30	V25	V25	R	66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	>18"	95	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-005	0588-2008-0013	Positive
6	01	10-20	V25	V24	R	11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	1/2"-6"	35	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-005	0588-2008-0016	Positive
7	01	0-10	Y14	Y15	R	296	MM/Non-Friable	Flooring	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic		144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
8	01	0-10	Y14	Y15	R	49	SM/Friable	Walls/Ceiling	Drywall & Mud		144	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
9	01	10-20	Q11	AD31		202	SM/Friable	Walls	Spray-on Wall	1/2"-6"	5200	SF	(7) Any remaining friable ACM or friable suspect ACM.			Negative
10	01	40+	W30	W30	R	66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation		1750	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-006	0588-2008-0028	Positive
11	01	0-10	W30	W30	R	123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-009	0588-2008-0031	Positive

[redacted]

Comments

Three samples were collected 0588-2008-0001 @ grid S30 Photo #08-0330-001 and 0588-2008-0002 @ grid V32 Photo #08-0330-001
and 0588-2008-0003 @ grid S30 Photo #08-0330-01

Three samples were collected 0588-2008-0004 @ grid S30 and 0588-2008-0005 @ grid V32 and
0588-2008-0006 @ grid V32

Three samples were collected 0588-2008-0007 @ grid S30 Photo #08-0330-03 and 0588-2008-0008 @ grid V32 and 0588-2008-0009 @ grid S30

Two more samples were collected
0588-2008-0011 @ grid W29 Photo #08-0330-002 and 0588-2008-0012 @ grid W29 Photo #08-0330-002

Two more samples were collected 0588-2008-0014 @ grid V25 Photo #08-0330-005 and
0588-2008-0015 @ grid V25 Photo #08-0330-005

Two more samples were collected
0588-2008-0017 @ grid V24 Photo #08-0330-004 and 0588-2008-0018 @ grid V25 Photo #08-0330-004

Three samples were collected 0588-2008-0019 @ grid Y15 and 0588-2008-0020 @ grid Y15 and
0588-2008-0021 @ grid Y14 No Photo

Three samples were collected 0588-2008-0022 @ grid Y14 and 0588-2008-0023 @ grid Y15 and
0588-2008-0024 Negative for asbestos

Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and
0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Two more samples were collected 0588-2008-0029 @ grid W30 Photo #08-0330-007 and 0588-2008-0030 @ grid W30 Photo #08-0330-008

Two more samples were collected 0588-2008-0032 @ grid W30 Photo #08-0330-010 and
0588-2008-0033 @ Grid W30 Photo #08-0330-011

Survey Data Report by Item

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Present
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
12	01	0-10	Y30	AC28		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
13	01	0-10	T27	V27		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	24	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-015	0588-2008-0037	Positive
14	01	20-30	S28	X29		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
15	02	30-40	W16	XX27		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	1/2"-6"	298	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-019	0588-2008-0043	Positive
16	01	30-40	W20	X27		42	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	1/2"-6"	180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-020	0588-2008-0046	Positive
17	02	30-40	W29	W28	R	42	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	1/2"-6"	48	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-023	0588-2008-0049	Positive
18	L1	10-20	X29	T28		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	75	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-021	0588-2008-0055	Positive
19	02	20-30	W26	T28		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	12"-18"	144	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-030	0588-2008-0058	Positive
20	02	20-30	X29	Y29		66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation	>18"	554	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-031	0588-2008-0061	Positive
	02	20-30	X29	Y29												
21	02	10-20	X27	X30		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	>18"	40	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	08-0330-034	0588-2008-0064	Positive
	02	10-20	X27	X30												
22	02	20-30	AB31	Y26		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	160	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
	02	20-30	AB31	Y26												
23	02	20-30	AB31	Y26		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	120	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
	02	20-30	AB31	Y26												

Comments

Three samples were collected 0588-2008-0034 @ grid Y30 Photo #08-0330-012 and 0588-2008-0035 @ grid AC28 Photo #08-0330-013 and 0588-2008-0036 @ grid Y30 Photo #08-0330-014

Two more samples were collected 0588-2008-0038 @ grid V27 Photo #08-0330-016 and 0588-2008-0039 @ grid T27 Photo #08-0330-017

Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

Two more samples were collected 0588-2008-0050 @ grid W28 Photo #08-0330-024 and 0588-2008-0051 @ grid W29 Photo #08-0330-025

Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and 0588-2008-0057 @ grid X29 Photo #08-0330-021

Two more samples were collected 0588-2008-0059 @ grid T28 Photo #08-0330-030 and 0588-2008-0060 @ grid T28 Photo 08-0330-029

Two more samples were collected 0588-2008-0062 @ grid Y29 Photo #08-0330-032 and 0588-2008-0063 @ grid X29 Photo #08-0330-033

Two more samples were collected 0588-2008-0065 @ grid XX30 Photo #08-0330-035 and 0588-2008-0066 @ grid XX27 Photo #08-0330-036

Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039

Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

Survey Data Report by Item

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Present
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
24	01	0-10	AD28	AD19		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	12"-18"	145	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-043	0588-2008-0073	Positive
	01	0-10	AD28	AD19												
25	01	0-10	AD28	AC19		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	12"-18"	260	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-046	0588-2008-0076	Positive
	01	0-10	AD28	AC19												
26	01	0-10	AD21	AD21		66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation		79	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-049	0588-2008-0079	Positive
	01	0-10	AD21	AD21	R											
27	01	0-10	AD28	AD21		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	1/2"-6"	190	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-050	0588-2008-0082	Positive
	01	0-10	AD28	AD21												
28	02	0-10	AD28	AD21		42	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	1/2"-6"	315	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-053	0588-2008-0085	Positive
	02	0-10	AD28	AD21												
29	02	20-30	AD26	X19		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	12"-18"	370	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-056	0588-2008-0088	Positive
30	02	0-10	X25	X25	R	348	TSI/Friable	Boiler	Boiler Insulation		168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
31	02	10-20	AB25	AB25	R	348	TSI/Friable	Boiler	Boiler Insulation		1100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-062	0588-2008-0094	Positive
32	02	0-10	Y24	X26		348	TSI/Friable	Boiler	Boiler Insulation		100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-065	0588-2008-0097	Positive
33	02	10-20	AB25	AB25	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-068	0588-2008-0100	Positive
34	02	0-10	X26	AB26		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-070	0588-2008-0103	Positive
35	02	10-20	AB25	AB24	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative

Comments

Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045

Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

Two more samples were collected 0588-2008-0080 @ grid AD21 Photo #08-0330-049 and 0588-2008-0081 @ grid AD21 Photo #08-0330-049

Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052

Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058

Three samples were collected 0588-2008-0091 @ grid XX25 Photo #08-0330-059 and 0588-2008-0092 @ grid XX25 Photo #08-0330-069 and 0588-2008-0093 Photo #08-0330-061

Two more samples were collected 0588-2008-0095 @ grid AB25 Photo #08-0330-063 and 0588-2008-0096 @ grid AB25 Photo #08-0330-064

Two more samples were collected 0588-2008-0098 @ grid XX26 Photo #08-0330-066 and 0588-2008-0099 @ grid Y24 Photo #08-0330-067

Two more samples were collected 0588-2008-0101 @ grid AB25 Photo #08-0330-069 and 0588-2008-0102 @ grid AB25 Photo #08-0330-069

Two more samples were collected 0588-2008-0104 @ grid XX26 Photo #08-0330-071 and 0588-2008-0105 @ grid AB26 Photo #08-0330-072

Three samples were collected 0588-2008-0106 @ grid AB256 Photo #08-0330-073 and 0588-2008-0107 @ grid AB24 Photo #08-0330-074 and 0588-2008-0108 Photo #08-0330-075

Survey Data Report by Item

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Presen
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
36	02	10-20	X22	X22	R	348	TSI/Friable	Boiler	Boiler Insulation		168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-076	0588-2008-0109	Positive
37	02	10-20	AB22	AB22	R	348	TSI/Friable	Boiler	Boiler Insulation		1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-079	0588-2008-0112	Positive
38	02	0-10	Y21	X23		348	TSI/Friable	Boiler	Boiler Insulation		100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
39	02	10-20	AB22	AB22	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-087	0588-2008-0118	Positive
40	02	0-10	X23	AB23		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-090	0588-2008-0121	Positive
41	02	10-20	AB22	AB21		349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		115	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
42	03	0-10	AB21	AB21	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		72	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
43	01	0-10	X19	X19	R	348	TSI/Friable	Boiler	Boiler Insulation		168	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-097	0588-2008-0130	Positive
44	02	10-20	AB19	AB19	R	348	TSI/Friable	Boiler	Boiler Insulation		1350	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-100	0588-2008-0133	Positive
45	02	0-10	Y18	X20		348	TSI/Friable	Boiler	Boiler Insulation		100	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-103	0588-2008-0136	Positive
46	02	10-20	AB19	AB19	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		320	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-106	0588-2008-0139	Positive
47	02	0-10	X20	AB20		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	85	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-109	0588-2008-0142	Positive
48	02	10-20	AB19	AB18	R	349	TSI/Friable	Boiler	Exhaust Stack Insulation, Mag Type		125	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative

Comments

Two more samples were collected 0588-2008-0110 @ grid XX22 Photo #08-0330-077 and 0588-2008-0111 @ grid XX22 Photo #08-0330-078

Two more samples were collected 0588-2008-0113 @ grid AB22 Photo #08-0330-080 and 0588-2008-0114 @ grid AB22 Photo #08-0330-081

Three samples were collected 0588-2008-0115 @ grid Y21 Photo #08-0330-082 and 0588-2008-0116 @ grid XX23 Photo #08-0330-083 and 0588-2008-0117 @ grid Y21 Photo #08-0330-084

Two more samples were collected 0588-2008-0119 @ grid AB22 Photo #08-0330-088 and 0588-2008-0120 @ grid AB22 Photo #08-0330-089

Two more samples were collected 0588-2008-0122 @ grid AB23 Photo #08-0330-091 and 0588-2008-0123 @ grid XX23 Photo #08-0330-092

Three samples were collected 0588-2008-0124 @ grid AB22 Photo #08-0330-094 and 0588-2008-0125 @ grid AB21 Photo #08-0330-095 and 0588-2008-0126 @ grid AB21 Photo #08-0330-093

Three samples were collected 0588-2008-0127 @ grid AB21 Photo #08-0330-096 and 0588-2008-0128 @ grid AB21 Photo #08-0330-096 and 0588-2008-0129

Two more samples were collected 0588-2008-0131 @ grid XX19 Photo #08-0330-098 and 0588-2008-0132 @ grid XX20 Photo #08-0330-099

Two more samples were collected 0588-2008-0134 @ grid AB19 Photo #08-0330-101 and 0588-2008-0135 @ grid AB19 Photo #08-0330-102

Two more samples were collected 0588-2008-0137 @ grid XX20 Photo #08-0330-104 and 0588-2008-0138 @ grid Y18 Photo #08-0330-105

Two more samples were collected 0588-2008-0140 @ grid AB19 Photo #08-0330-107 and 0588-2008-0141 @ grid AB19 Photo #08-0330-108

Two more samples were collected 0588-2008-0143 @ grid AB20 Photo #08-0330-110 and 0588-2008-0144 @ grid XX20 Photo #08-0330-110

Three samples were collected 0588-2008-0145 @ grid AB19 Photo #08-0330-111 and 0588-2008-0146 @ grid AB18 Photo #08-0330-112 and 0588-2008-147 Photo #08-0330-113

Survey Data Report by Item

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Present
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
49	03	10-20	V27	Y18		154	TSI/Friable	Roof Drain	Mag Type Straight Run & Fittings Insulation	1/2"-6"	180	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
50	M3	10-20	Y17	Y17	R	11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	1/2"-6"	54	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-117	0588-2008-0151	Positive
51	M3	10-20	Y17	Y17	R	42	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	1/2"-6"	52	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-117	0588-2008-0154	Positive
52	02	10-20	Y27	Y29	R	140	TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	6"-12"	60	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
	02	10-20	Y27	Y29												
54	01	0-10	Y25	Y25	R	348	TSI/Friable	Boiler	Boiler Insulation		24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
55	01	0-10	Y22	Y22	R	348	TSI/Friable	Boiler	Boiler Insulation		24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
56	01	0-10	Y19	Y19	R	348	TSI/Friable	Boiler	Boiler Insulation		24	SF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
57	02	0-10	X26	AD19		138	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	130	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
58	02	0-10	X23	AD19		138	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	80	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-136	0588-2008-0172	Positive
59	02	0-10	X20	AD19		138	TSI/Friable	Drain Line	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	55	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-139	0588-2008-0175	Positive
60	02	10-20	Q11	AD31		258	MM/Non-Friable	Window	White Window Glazing		4500	LF	(4) Damaged or significantly damaged friable miscellaneous ACM.	08-0330-143	0588-2008-0178	Positive
61	L1	0-10	AD17	S29		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	1/2"-6"	450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-145	0588-2008-0181	Positive

Comments

Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

Two more samples were collected 0588-2008-0152 @ grid Y17 Photo #08-0330-118 and 0588-2008-0153 @ grid Y17 Photo #08-0330-119

Two more samples were collected 0588-2008-0155 @ grid Y17 Photo #08-0330-118 and 0588-2008-0156 @ grid Y17 Photo #120

Three samples were collected 0588-2008-0157 @ grid Y27 Photo #08-0330-121 and 0588-2008-0158 @ grid Y29 Photo #08-0330-122 and 0588-2008-0159 @ grid Y27 Nphoto #08-0330-123

Three samples were collected 0588-2008-0160 @ grid Y25 Photo #08-0330-124 and 0588-2008-0161 @ grid Y25 Photo #08-0330-125 and 0588-2008-0162 @ grid Y25 Photo #08-0330-126

Three samples were collected 0588-2008-0163 @ grid Y22 Photo #08-0330-127 and 0588-2008-0164 @ grid Y22 Photo #08-0330-128 and 0588-2008-0165 Photo #08-0330-0129

Three samples were collected 0588-2008-0166 @ grid Y19 Photo #08-0330-130 and 0588-2008-0167 @ grid Y19 Photo #08-0330-131 and 0588-2008-0168 @ grid Y19 Photo #08-0330-132

Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135

Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138

Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140

Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

Survey Data Report by Item

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Item	Location					ACM Description					Quantification		Assessment Category	Photo #	Sample#	ACM Presen
	Flr	Lvl	Start	End	R	HA #	Type	System	Description	Size	Qty	Unit				
62	L1	0-10	AD17	W31		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	450	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-148	0588-2008-0184	Positive
63	L1	0-10	AB18	X28		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	6"-12"	150	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-151	0588-2008-0187	Positive
64	L1	0-10	AB18	X28		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	1/2"-6"	140	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
65	L1	0-10	AD17	V31		42	TSI/Friable	Condensate	Mag Type Straight Run & Fittings Insulation	1/2"-6"	665	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-157	0588-2008-0193	Positive
66	L1	0-10	AD17	W32		140	TSI/Friable	Drain Line	Mag Type Straight Run & Fittings Insulation	1/2"-6"	590	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
67	L1	0-10	AD32	Y28		123	TSI/Friable	City Water	Mag Type Straight Run & Fittings Insulation	6"-12"	535	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
68	L1	0-10	AB18	AC19		66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation		330	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-166	0588-2008-0202	Positive
69	L1	0-10	Y29	AB29		66	TSI/Friable	Condensate	Tank, Mag Type Block Insulation		435	SF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-169	0588-2008-0205	Positive
70	L1	0-10	Y21	AC30		11	TSI/Friable	Steam	Mag Type Straight Run & Fittings Insulation	6"-12"	495	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-172	0588-2008-0208	Positive
71	L1	0-10	W28	S32		22	TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	6"-12"	38	LF	(1) Damaged or significantly damaged thermal system insulation ACM.	08-0330-175	0588-2008-0211	Positive
72	L1	0-10	AC28	W32		22	TSI/Friable	City Water	Mud Fittings on Fiberglass Straight Line	6"-12"	715	LF	(1) Damaged or significantly damaged thermal system insulation ACM.			Negative
73	01	10-20	K11	Q14		87	MM/Non-Friable	Miscellaneous	Transite Panels		770	SF	(6) ACM with potential for significant damage.	08-0330-181	0588-2008-0217	Positive

Comments

Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153

Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156

Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165

Two more samples were collected 0588-2008-0203 @ grid AC19 Photo #08-0330-167 and 0588-2008-0204 @ grid AB18 Photo #08-0330-168

Two more samples were collected 0588-2008-0206 @ grid AB29 Photo #08-0330-170 and 0588-2008-0207 @ grid Y29 Photo #08-0330-171

Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174

Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

WFG-FM Asbestos Tracking Tool (ATT)

GM

Survey Start: 3/31/2008 Survey Stop: 4/16/2008 GM Project Number: GMS15876
Company: Emerald Environmental, Inc.
Primary Contact: Steve Elliott Phone: 330-842-0288

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

K11 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	08-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

L12 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	08-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

M12 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	08-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

N13 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	08-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

P13 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

P13 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	8-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

Q11 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Q14 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
73	10-20	87	Miscellaneous	MM/Non-Friable	Transite Panels		(6) ACM with potential for significant damage.	128.33	SF	8-0330-18	0588-2008-0217	K11

ACM: Positive **Chrysotile:** 20 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0218 @ grid Q14 Photo #08-0330-182 and 0588-2008-0219 @ grid K11 Phot #08-0330-182

R12 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

R13 Floor: 01

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

S14 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

S15 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

S28 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
4	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

S30 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
1	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0001 @ grid S30 Photo #08-0330-001 and 0588-2008-0002 @ grid V32 Photo #08-0330-001 and 0588-2008-0003 @ grid S30 Photo #08-0330-01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
2	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	8-0330-00		

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0004 @ grid S30 and 0588-2008-0005 @ grid V32 and 0588-2008-0006 @ grid V32

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

S30 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
3	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0007 @ grid S30 Photo #08-0330-03 and 0588-2008-0008 @ grid V32 and 0588-2008-0009 @ grid S30

T16 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

T27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
13	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	8-0330-01:	0588-2008-0037	T27

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0038 @ grid V27 Photo #08-0330-016 and 0588-2008-0039 @ grid T27 Photo #08-0330-017

T28 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
14	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

T31 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

T31 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
1	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0001 @ grid S30 Photo #08-0330-001 and 0588-2008-0002 @ grid V32 Photo #08-0330-001 and 0588-2008-0003 @ grid S30 Photo #08-0330-01					
2	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	8-0330-00		
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0004 @ grid S30 and 0588-2008-0005 @ grid V32 and 0588-2008-0006 @ grid V32					
3	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0007 @ grid S30 Photo #08-0330-03 and 0588-2008-0008 @ grid V32 and 0588-2008-0009 @ grid S30					

U17 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)					

U18 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)					

U27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

U27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
13	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	8-0330-01:	0588-2008-0037	T27

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0038 @ grid V27 Photo #08-0330-016 and 0588-2008-0039 @ grid T27 Photo #08-0330-017

U28 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
14	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

U31 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
1	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0001 @ grid S30 Photo #08-0330-001 and 0588-2008-0002 @ grid V32 Photo #08-0330-001 and 0588-2008-0003 @ grid S30 Photo #08-0330-01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
2	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	8-0330-00		

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0004 @ grid S30 and 0588-2008-0005 @ grid V32 and 0588-2008-0006 @ grid V32

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
3	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0007 @ grid S30 Photo #08-0330-03 and 0588-2008-0008 @ grid V32 and 0588-2008-0009 @ grid S30

V19 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

V19 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

V20 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

V24 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
6	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	17.50	LF	8-0330-00:	0588-2008-0016	V25

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0017 @ grid V24 Photo #08-0330-004 and 0588-2008-0018 @ grid V25 Photo #08-0330-004

V25 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
5	20-30	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation	>18"	(1) Damaged or significantly damaged thermal system insulation ACM.	95.00	SF	8-0330-00:	0588-2008-0013	V25

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0014 @ grid V25 Photo #08-0330-005 and 0588-2008-0015 @ grid V25 Photo #08-0330-005

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
6	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	17.50	LF	8-0330-00:	0588-2008-0016	V25

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0017 @ grid V24 Photo #08-0330-004 and 0588-2008-0018 @ grid V25 Photo #08-0330-004

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

V27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
13	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	08-0330-01:	0588-2008-0037	T27

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0038 @ grid V27 Photo #08-0330-016 and 0588-2008-0039 @ grid T27 Photo #08-0330-017

V29 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
14	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

V32 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
1	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0001 @ grid S30 Photo #08-0330-001 and 0588-2008-0002 @ grid V32 Photo #08-0330-001 and 0588-2008-0003 @ grid S30 Photo #08-0330-01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
2	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF	08-0330-00		

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0004 @ grid S30 and 0588-2008-0005 @ grid V32 and 0588-2008-0006 @ grid V32

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
3	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	8.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0007 @ grid S30 Photo #08-0330-03 and 0588-2008-0008 @ grid V32 and 0588-2008-0009 @ grid S30

W20 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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W20 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	18-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

W21 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	18-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

W22 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	18-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

W23 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	18-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

W29 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

W29 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
4	10-20	95	Diesel Fuel	TSI/Friable	Mud Fittings on Fiberglass Straight Line (Painted Yellow)		(5) ACM with potential for damage.	120.00	LF	08-0330-02	0588-2008-0010	W29
	ACM:	Positive	Chrysotile: 10	Amosite: 10	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0011 @ grid W29 Photo #08-0330-002 and 0588-2008-0012 @ grid W29 Photo #08-0330-002			
14	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos			

W30 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
10	40+	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	1,750.00	SF	08-0330-00	0588-2008-0028	W30
	ACM:	Positive	Chrysotile: 60	Amosite: 20	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0029 @ grid W30 Photo #08-0330-007 and 0588-2008-0030 @ grid W30 Photo #08-0330-008			
11	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	85.00	LF	08-0330-00	0588-2008-0031	W30
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0032 @ grid W30 Photo #08-0330-010 and 0588-2008-0033 @ Grid W30 Photo #08-0330-011			

X19 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
43	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	168.00	SF	08-0330-09	0588-2008-0130	XX19
	ACM:	Positive	Chrysotile: 30	Amosite: 20	Crocidolite 5	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0131 @ grid XX19 Photo #08-0330-098 and 0588-2008-0132 @ grid XX20 Photo #08-0330-099			

X22 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

X22 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

X23 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

X24 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	8-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

X25 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	8-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

X26 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

X26 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	8-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

X27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
16	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	22.50	LF	8-0330-02(	0588-2008-0046	W30

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0047 @ grid X27 Photo #08-0330-022 and 0588-2008-0048 @ grid W20 Photo #08-0330-0020

X29 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
14	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	43.33	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0040 @ grid S28 Photo #08-0330-018 and 0588-2008-0041 @ grid X29 and 0588-2008-0042 all negative for asbestos

Y14 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
7	0-10	296	Flooring	MM/Non-Friable	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic		(1) Damaged or significantly damaged thermal system insulation ACM.	72.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0019 @ grid Y15 and 0588-2008-0020 @ grid Y15 and 0588-2008-0021 @ grid Y14 No Photo

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
8	0-10	49	Walls/Ceiling	SM/Friable	Drywall & Mud		(1) Damaged or significantly damaged thermal system insulation ACM.	72.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0022 @ grid Y14 and 0588-2008-0023 @ grid Y15 and 0588-2008-0024 Negative for asbestos

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Y15 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
7	0-10	296	Flooring	MM/Non-Friable	12 x 12 Floor Tile, Off white with Gray Speckles and Mastic		(1) Damaged or significantly damaged thermal system insulation ACM.	72.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0019 @ grid Y15 and 0588-2008-0020 @ grid Y15 and 0588-2008-0021 @ grid Y14 No Photo

8	0-10	49	Walls/Ceiling	SM/Friable	Drywall & Mud		(1) Damaged or significantly damaged thermal system insulation ACM.	72.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0022 @ grid Y14 and 0588-2008-0023 @ grid Y15 and 0588-2008-0024 Negative for asbestos

Y19 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
56	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	24.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0166 @ grid Y19 Photo #08-0330-130 and 0588-2008-0167 @ grid Y19 Photo #08-0330-131 and 0588-2008-0168 @ grid Y19 Photo #08-0330-132

Y22 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
55	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	24.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0163 @ grid Y22 Photo #08-0330-127 and 0588-2008-0164 @ grid Y22 Photo #08-0330-128 and 0588-2008-0165 Photo #08-0330-0129

Y24 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Y25 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
54	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	24.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0160 @ grid Y25 Photo #08-0330-124 and 0588-2008-0161 @ grid Y25 Photo #08-0330-125 and 0588-2008-0162 @ grid Y25 Photo #08-0330-126

Y28 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
12	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0034 @ grid Y30 Photo #08-0330-012 and 0588-2008-0035 @ grid AC28 Photo #08-0330-013 and 0588-2008-0036 @ grid Y30 Photo #08-0330-014

AA26 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

AA29 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
12	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0034 @ grid Y30 Photo #08-0330-012 and 0588-2008-0035 @ grid AC28 Photo #08-0330-013 and 0588-2008-0036 @ grid Y30 Photo #08-0330-014

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB27 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

AB28 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

AB29 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
12	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0034 @ grid Y30 Photo #08-0330-012 and 0588-2008-0035 @ grid AC28 Photo #08-0330-013 and 0588-2008-0036 @ grid Y30 Photo #08-0330-014

AC19 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	8-0330-04(	0588-2008-0076	AD28

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

AC20 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AC20 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	8-0330-04(	0588-2008-0076	AD28

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

AC21 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	8-0330-04(	0588-2008-0076	AD28

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

AC22 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	8-0330-04(	0588-2008-0076	AD28

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

AC23 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	8-0330-04(	0588-2008-0076	AD28

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048

AC29 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AC30 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)			
12	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0034 @ grid Y30 Photo #08-0330-012 and 0588-2008-0035 @ grid AC28 Photo #08-0330-013 and 0588-2008-0036 @ grid Y30 Photo #08-0330-014			

AD19 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	18-0330-04:	0588-2008-0073	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045			

AD20 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	18-0330-04:	0588-2008-0073	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045			

AD21 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	18-0330-04:	0588-2008-0073	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AD21 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
26	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	79.00	SF	08-0330-04	0588-2008-0079	AD21
	ACM:	Positive	**Chrysotile:** 50	**Amosite:** 20	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0080 @ grid AD21 Photo #08-0330-049 and 0588-2008-0081 @ grid AD21 Photo #08-0330-049			
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05	0588-2008-0082	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052			

AD22 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04	0588-2008-0073	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045			
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05	0588-2008-0082	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052			

AD23 Floor: 01

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04	0588-2008-0073	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045			
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05	0588-2008-0082	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AD24 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04.	0588-2008-0073	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045					
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	08-0330-04(	0588-2008-0076	AD28
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048					
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05(	0588-2008-0082	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052					

AD25 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04.	0588-2008-0073	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045					
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	08-0330-04(	0588-2008-0076	AD28
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048					
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05(	0588-2008-0082	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052					

AD26 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AD26 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04.	0588-2008-0073	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045					
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	08-0330-04(	0588-2008-0076	AD28
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048					
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05(	0588-2008-0082	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052					

AD27 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	08-0330-04.	0588-2008-0073	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045					
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	08-0330-04(	0588-2008-0076	AD28
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048					
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	08-0330-05(	0588-2008-0082	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052					

AD28 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AD28 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
24	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	14.50	LF	18-0330-04:	0588-2008-0073	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0074 @ grid AD19 Photo #08-0330-044 and 0588-2008-0075 @ grid AD28 Photo #08-0330-045					
25	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.00	LF	18-0330-04(	0588-2008-0076	AD28
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0077 @ grid AC19 Photo #08-0330-047 and 0588-2008-0078 @ grid AD28 Photo #08-0330-048					
27	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	23.75	LF	18-0330-05(	0588-2008-0082	AD28
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0083 @ grid AD21 Photo #08-0330-051 and 0588-2008-0084 @ grid AD28 Photo #08-0330-052					

AD31 Floor: 01

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
9	10-20	202	Walls	SM/Friable	Spray-on Wall	1/2"-6"	(7) Any remaining friable ACM or friable suspect ACM.	247.62	SF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0025 @ grid Q11 and 0588-2008-0026 @ grid AD31 and 0588-2008-0027 All windows in the Power House (Spray Foam Insulation)					

Q11 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	18-0330-14:	0588-2008-0178	Q11
	ACM: Positive	**Chrysotile:** 5	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142					

R12 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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R12 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

R13 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

S14 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

S15 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

T16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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T26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
19	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.00	LF	08-0330-03(	0588-2008-0058	W26

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0059 @ grid T28 Photo #08-0330-030 and 0588-2008-0060 @ grid T28 Photo 08-0330-029

U17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

U18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

U27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
19	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.00	LF	08-0330-03(	0588-2008-0058	W26

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0059 @ grid T28 Photo #08-0330-030 and 0588-2008-0060 @ grid T28 Photo 08-0330-029

V19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

V19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

V20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

V27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
19	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.00	LF	08-0330-03(	0588-2008-0058	W26

ACM: Positive **Chrysotile:** 70 **Amosite:** 10 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0059 @ grid T28 Photo #08-0330-030 and
0588-2008-0060 @ grid T28 Photo 08-0330-029

W16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01'	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

W21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

W28 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
17	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	24.00	LF	8-0330-02.	0588-2008-0049	W29
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0050 @ grid W28 Photo #08-0330-024 and 0588-2008-0051 @ grid W29 Photo #08-0330-025			
19	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.00	LF	8-0330-03(	0588-2008-0058	W26
	ACM:	Positive	**Chrysotile:** 70	**Amosite:** 10	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0059 @ grid T28 Photo #08-0330-030 and 0588-2008-0060 @ grid T28 Photo 08-0330-029			

W29 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
17	30-40	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	24.00	LF	8-0330-02.	0588-2008-0049	W29
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0050 @ grid W28 Photo #08-0330-024 and 0588-2008-0051 @ grid W29 Photo #08-0330-025			

X16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01'	0588-2008-0043	W16
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019			

X18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
45	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	8-0330-10.	0588-2008-0136	Y18
	ACM:	Positive	**Chrysotile:** 80	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0137 @ grid XX20 Photo #08-0330-104 and 0588-2008-0138 @ grid Y18 Photo #08-0330-105			

X19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05(	0588-2008-0088	AD26
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058					
45	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	08-0330-10.	0588-2008-0136	Y18
	ACM: Positive	**Chrysotile:** 80	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0137 @ grid XX20 Photo #08-0330-104 and 0588-2008-0138 @ grid Y18 Photo #08-0330-105					
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135					
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13(	0588-2008-0172	XX23
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138					
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	08-0330-13(	0588-2008-0175	XX20
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140					

X20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
47	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-10(	0588-2008-0142	XX20
	ACM: Positive	**Chrysotile:** 30	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0143 @ grid AB20 Photo #08-0330-110 and 0588-2008-0144 @ grid XX20 Photo #08-0330-110					

X21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
38	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0115 @ grid Y21 Photo #08-0330-082 and 0588-2008-0116 @ grid XX23 Photo #08-0330-083 and 0588-2008-0117 @ grid Y21 Photo #08-0330-084

X22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
36	10-20	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	168.00	SF	08-0330-07(	0588-2008-0109	XX22

ACM: Positive **Chrysotile:** 70 **Amosite:** 5 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0110 @ grid XX22 Photo #08-0330-077 and 0588-2008-0111 @ grid XX22 Photo #08-0330-078

38	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0115 @ grid Y21 Photo #08-0330-082 and 0588-2008-0116 @ grid XX23 Photo #08-0330-083 and 0588-2008-0117 @ grid Y21 Photo #08-0330-084

60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14.	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

X23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
40	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-09(	0588-2008-0121	XX23

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0122 @ grid AB23 Photo #08-0330-091 and
0588-2008-0123 @ grid XX23 Photo #08-0330-092

60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14.	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
32	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	8-0330-06:	0588-2008-0097	Y24

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0098 @ grid XX26 Photo #08-0330-066 and 0588-2008-0099 @ grid Y24 Photo #08-0330-067

X25 Floor: 02

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
30	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	168.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0091 @ grid XX25 Photo #08-0330-059 and 0588-2008-0092 @ grid XX25 Photo #08-0330-069 and 0588-2008-0093 Photo #08-0330-061

32	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	8-0330-06:	0588-2008-0097	Y24

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0098 @ grid XX26 Photo #08-0330-066 and 0588-2008-0099 @ grid Y24 Photo #08-0330-067

X26 Floor: 02

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
34	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	8-0330-07(	0588-2008-0103	XX26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0104 @ grid XX26 Photo #08-0330-071 and 0588-2008-0105 @ grid AB26 Photo #08-0330-072

X27 Floor: 02

em	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
21	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	>18"	(4) Damaged or significantly damaged friable miscellaneous ACM.	10.00	LF	8-0330-03(	0588-2008-0064	XX27

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0065 @ grid XX30 Photo #08-0330-035 and 0588-2008-0066 @ grid XX27 Photo #08-0330-036

X28 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X28 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
21	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	>18"	(4) Damaged or significantly damaged friable miscellaneous ACM.	10.00	LF	8-0330-03	0588-2008-0064	XX27

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0065 @ grid XX30 Photo #08-0330-035 and 0588-2008-0066 @ grid XX27 Photo #08-0330-036

X29 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
20	20-30	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation	>18"	(1) Damaged or significantly damaged thermal system insulation ACM.	277.00	SF	8-0330-03	0588-2008-0061	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0062 @ grid Y29 Photo #08-0330-032 and 0588-2008-0063 @ grid X29 Photo #08-0330-033

21	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	>18"	(4) Damaged or significantly damaged friable miscellaneous ACM.	10.00	LF	8-0330-03	0588-2008-0064	XX27

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0065 @ grid XX30 Photo #08-0330-035 and 0588-2008-0066 @ grid XX27 Photo #08-0330-036

X30 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
21	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	>18"	(4) Damaged or significantly damaged friable miscellaneous ACM.	10.00	LF	8-0330-03	0588-2008-0064	XX27

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0065 @ grid XX30 Photo #08-0330-035 and 0588-2008-0066 @ grid XX27 Photo #08-0330-036

Y16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Y19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	08-0330-13	0588-2008-0175	XX20
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140			

Y20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05	0588-2008-0088	AD26
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058			
45	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	08-0330-10	0588-2008-0136	Y18
	ACM:	Positive	Chrysotile: 80	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0137 @ grid XX20 Photo #08-0330-104 and 0588-2008-0138 @ grid Y18 Photo #08-0330-105			
47	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-10	0588-2008-0142	XX20
	ACM:	Positive	Chrysotile: 30	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0143 @ grid AB20 Photo #08-0330-110 and 0588-2008-0144 @ grid XX20 Photo #08-0330-110			
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135			
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13	0588-2008-0172	XX23
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138			

Y21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	8-0330-05(	0588-2008-0088	AD26
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058			
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135			

Y23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
38	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0115 @ grid Y21 Photo #08-0330-082 and 0588-2008-0116 @ grid XX23 Photo #08-0330-083 and 0588-2008-0117 @ grid Y21 Photo #08-0330-084			
40	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	8-0330-09(	0588-2008-0121	XX23
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0122 @ grid AB23 Photo #08-0330-091 and 0588-2008-0123 @ grid XX23 Photo #08-0330-092			

Y24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	8-0330-14:	0588-2008-0178	Q11
	ACM:	Positive	**Chrysotile:** 5	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142			

Y25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11
	ACM:	Positive	**Chrysotile:** 5	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142			

Y26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039			
23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042			
32	0-10	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	33.33	SF	08-0330-06:	0588-2008-0097	Y24
	ACM:	Positive	**Chrysotile:** 30	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0098 @ grid XX26 Photo #08-0330-066 and 0588-2008-0099 @ grid Y24 Photo #08-0330-067			
34	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-07(	0588-2008-0103	XX26
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0104 @ grid XX26 Photo #08-0330-071 and 0588-2008-0105 @ grid AB26 Photo #08-0330-072			

Y27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
52	10-20	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0157 @ grid Y27 Photo #08-0330-121 and 0588-2008-0158 @ grid Y29 Photo #08-0330-122 and 0588-2008-0159 @ grid Y27 Nphoto #08-0330-123

Y28 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
52	10-20	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0157 @ grid Y27 Photo #08-0330-121 and 0588-2008-0158 @ grid Y29 Photo #08-0330-122 and 0588-2008-0159 @ grid Y27 Nphoto #08-0330-123

Y29 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
20	20-30	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation	>18"	(1) Damaged or significantly damaged thermal system insulation ACM.	277.00	SF	8-0330-03	0588-2008-0061	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0062 @ grid Y29 Photo #08-0330-032 and 0588-2008-0063 @ grid X29 Photo #08-0330-033

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
52	10-20	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0157 @ grid Y27 Photo #08-0330-121 and 0588-2008-0158 @ grid Y29 Photo #08-0330-122 and 0588-2008-0159 @ grid Y27 Nphoto #08-0330-123

AA16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AA19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	08-0330-13	0588-2008-0175	XX20

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140

AA20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
47	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-10	0588-2008-0142	XX20

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0143 @ grid AB20 Photo #08-0330-110 and 0588-2008-0144 @ grid XX20 Photo #08-0330-110

AA21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13	0588-2008-0172	XX23

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138

AA22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05	0588-2008-0088	AD26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135

AA23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
40	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	8-0330-09(	0588-2008-0121	XX23

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0122 @ grid AB23 Photo #08-0330-091 and 0588-2008-0123 @ grid XX23 Photo #08-0330-092

AA26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
34	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	8-0330-07(	0588-2008-0103	XX26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0104 @ grid XX26 Photo #08-0330-071 and 0588-2008-0105 @ grid AB26 Photo #08-0330-072

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	8-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AA28 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA28 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

AA29 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

AB16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AB18 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
48	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	62.50	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0145 @ grid AB19 Photo #08-0330-111 and 0588-2008-0146 @ grid AB18 Photo #08-0330-112 and 0588-2008-147 Photo #08-0330-113

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
44	10-20	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	1,350.00	SF	08-0330-10(	0588-2008-0133	AB19
	ACM:	Positive	Chrysotile: 80	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0134 @ grid AB19 Photo #08-0330-101 and 0588-2008-0135 @ grid AB19 Photo #08-0330-102			
46	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	320.00	SF	08-0330-10(	0588-2008-0139	AB19
	ACM:	Positive	Chrysotile: 50	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0140 @ grid AB19 Photo #08-0330-107 and 0588-2008-0141 @ grid AB19 Photo #08-0330-108			
48	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	62.50	SF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0145 @ grid AB19 Photo #08-0330-111 and 0588-2008-0146 @ grid AB18 Photo #08-0330-112 and 0588-2008-147 Photo #08-0330-113			

AB20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
47	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-10(	0588-2008-0142	XX20
	ACM:	Positive	Chrysotile: 30	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0143 @ grid AB20 Photo #08-0330-110 and 0588-2008-0144 @ grid XX20 Photo #08-0330-110			
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	08-0330-13(	0588-2008-0175	XX20
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140			

AB21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
41	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	57.50	SF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0124 @ grid AB22 Photo #08-0330-094 and 0588-2008-0125 @ grid AB21 Photo #08-0330-095 and 0588-2008-0126 @ grid AB21 Photo #08-0330-093			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13(	0588-2008-0172	XX23
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138			

AB22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
37	10-20	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	1,350.00	SF	08-0330-07(	0588-2008-0112	AB22
	ACM:	Positive	Chrysotile: 80	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0113 @ grid AB22 Photo #08-0330-080 and 0588-2008-0114 @ grid AB22 Photo #08-0330-081			
39	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	320.00	SF	08-0330-08'	0588-2008-0118	AB22
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0119 @ grid AB22 Photo #08-0330-088 and 0588-2008-0120 @ grid AB22 Photo #08-0330-089			
41	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	57.50	SF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0124 @ grid AB22 Photo #08-0330-094 and 0588-2008-0125 @ grid AB21 Photo #08-0330-095 and 0588-2008-0126 @ grid AB21 Photo #08-0330-093			

AB23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05(	0588-2008-0088	AD26
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
40	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-09(	0588-2008-0121	XX23
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0122 @ grid AB23 Photo #08-0330-091 and 0588-2008-0123 @ grid XX23 Photo #08-0330-092			
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135			

AB24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
35	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	62.50	SF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0106 @ grid AB256 Photo #08-0330-073 and 0588-2008-0107 @ grid AB24 Photo #08-0330-074 and 0588-2008-0108 Photo #08-0330-075			

AB25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
31	10-20	348	Boiler	TSI/Friable	Boiler Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	1,100.00	SF	08-0330-06:	0588-2008-0094	AB25
	ACM:	Positive	**Chrysotile:** 50	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0095 @ grid AB25 Photo #08-0330-063 and 0588-2008-0096 @ grid AB25 Photo #08-0330-064			
33	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	320.00	SF	08-0330-06!	0588-2008-0100	AB25
	ACM:	Positive	**Chrysotile:** 70	**Amosite:** 10	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0101 @ grid AB25 Photo #08-0330-069 and 0588-2008-0102 @ grid AB25 Photo #08-0330-069			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AB25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
35	10-20	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	62.50	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0106 @ grid AB256 Photo #08-0330-073 and 0588-2008-0107 @ grid AB24 Photo #08-0330-074 and 0588-2008-0108 Photo #08-0330-075

AB26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
34	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	21.25	LF	08-0330-07(	0588-2008-0103	XX26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0104 @ grid XX26 Photo #08-0330-071 and 0588-2008-0105 @ grid AB26 Photo #08-0330-072

AB27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AB28 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AB30 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AB30 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039

23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

AB31 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
22	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	26.67	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0067 @ grid AB31 Photo #08-0330-037 and 0588-2008-0068 @ grid Y26 Photo #08-0330-038 and 0588-2008-0069 @ grid AB31 Photo #08-0330-039

23	20-30	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	20.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0070 @ grid AB31 Photo #08-0330-040 and 0588-2008-0071 @ grid Y26 Photo #08-0330-041 and 0588-2008-0072 @ grid AB31 Photo #08-0330-042

AC16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AC20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AC20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	08-0330-13	0588-2008-0175	XX20

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140

AC22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13	0588-2008-0172	XX23

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138

AC24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05	0588-2008-0088	AD26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058

57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135

AC25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05	0588-2008-0088	AD26

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AC25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135

AC29 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	8-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AC30 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	8-0330-14:	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AD16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AD20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
59	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	9.17	LF	8-0330-13	0588-2008-0175	XX20

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0176 @ grid AD19 Photo #08-0330-141 and 0588-2008-0177 @ grid XX20 Photo #08-0330-140

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AD21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

AD22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

AD23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
58	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.33	LF	08-0330-13	0588-2008-0172	XX23

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0173 @ grid AD19 Photo #08-0330-137 and 0588-2008-0174 @ grid XX23 Photo #08-0330-138

AD24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AD25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055			

AD26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055			
29	20-30	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	12"-18"	(1) Damaged or significantly damaged thermal system insulation ACM.	46.25	LF	08-0330-05	0588-2008-0088	AD26
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0089 @ grid XX19 Photo #08-0330-057 and 0588-2008-0090 @ grid AD26 Photo #08-0330-058			
57	0-10	138	Drain Line	TSI/Friable	Horsehair Fitting on Fiberglass Straight Line	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	16.25	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0169 @ grid XX26 Photo #08-0330-133 and 0588-2008-0170 @ grid AD19 Photo #08-0330-134 and 0588-2008-0171 @ grid XX26 Photo #08-0330-135			

AD27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05	0588-2008-0085	AD28
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055			

AD28 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AD28 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
28	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	39.38	LF	08-0330-05.	0588-2008-0085	AD28

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0086 @ grid AD21 Photo #08-0330-054 and 0588-2008-0087 @ grid AD28 Photo #08-0330-055

AD31 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
60	10-20	258	Window	MM/Non-Friable	White Window Glazing		(4) Damaged or significantly damaged friable miscellaneous ACM.	214.29	LF	08-0330-14.	0588-2008-0178	Q11

ACM: Positive **Chrysotile:** 5 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0179 @ grid AD31 Photo #08-0330-144 and 0588-2008-0180 @ grid Q11 Photo #08-0330-142

AE16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AF16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AG16 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AH16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AJ16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AK16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AL16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AM16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AN16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AP16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AQ16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AR16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AS16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AT16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AU16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AV16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AW16 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

AX17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AY17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BA17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BB17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BC17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BD17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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BE17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BF17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BG17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BH17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BJ17 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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BK17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BL17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BM17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BN17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BP17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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BQ17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BR17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BS17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BT17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BU17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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BV17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BW17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BX17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

BY17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CA17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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CB17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CC17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CD17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CE17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CF17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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CG17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CH17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CJ17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CK17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CL17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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CM17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CN17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CP17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CQ17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CR17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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CS17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CT17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CU17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CV17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CW17 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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CX18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

CY18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DA18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DB18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DC18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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DD18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DE18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DF18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DG18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DH18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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DJ18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DK18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DL18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DM18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DN18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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DP18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DQ18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DR18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DS18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DT18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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DU18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DV18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DW18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DX18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

DY18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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EA18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

EB18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

EC18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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ED18 Floor: 02

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15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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EE18 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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EF18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EG18 Floor: 02

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EH18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EJ18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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EK18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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EL18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EM18 Floor: 02

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EN18 Floor: 02

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EP18 Floor: 02

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EQ18 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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ER18 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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ES18 Floor: 02

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ET18 Floor: 02

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15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EU18 Floor: 02

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EV18 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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EW18 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EX19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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EY19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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FA19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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FB19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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FC19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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FD19 Floor: 02

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FE19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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FF19 Floor: 02

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FG19 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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FH19 Floor: 02

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15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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FJ19 Floor: 02

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tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FL19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FM19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

FN19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FP19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FQ19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FR19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FS19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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FT19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FU19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FV19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FW19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

FX19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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FY19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GA19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GB19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GC19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GD19 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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GE19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GF19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GG19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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GH19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GJ19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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GK19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GL19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GM19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GN19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GP19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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GQ19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GR19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GS19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GT19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GU19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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GV19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GW19 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GX20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

GY20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HA20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HB20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HC20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HD20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HE20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HF20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HG20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HH20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HJ20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HK20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HL20 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HM20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HN20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HP20 Floor: 02

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HQ20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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HR20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HS20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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HT20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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HU20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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HV20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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HW20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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HX20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

HY20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JA20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JB20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JC20 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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JD20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JE20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JF20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JG20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JH20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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JJ20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JK20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JL20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JM20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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JN20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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JP20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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JQ20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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JR20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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JS20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JT20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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JU20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JV20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JW20 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JX21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

JY21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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KA21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KB21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KC21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KD21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KE21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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KF21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KG21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KH21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KJ21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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KK21 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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KL21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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KM21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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KN21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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KP21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KQ21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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KR21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KS21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KT21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KU21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KV21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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KW21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KX21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

KY21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LA21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LB21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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LC21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LD21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LE21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LF21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LG21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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LH21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LJ21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

LK21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LL21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LM21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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LN21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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LP21 Floor: 02

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LQ21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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LR21 Floor: 02

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LS21 Floor: 02

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15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg .

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LT21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LU21 Floor: 02

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15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LV21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LW21 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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LX22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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LY22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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MA22 Floor: 02

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MB22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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MC22 Floor: 02

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MD22 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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ME22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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MF22 Floor: 02

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MG22 Floor: 02

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MH22 Floor: 02

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MJ22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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MK22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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ML22 Floor: 02

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MM22 Floor: 02

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MN22 Floor: 02

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MP22 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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MQ22 Floor: 02

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MR22 Floor: 02

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MS22 Floor: 02

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MU22 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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MV22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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MW22 Floor: 02

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MX22 Floor: 02

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MY22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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NA22 Floor: 02

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ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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NB22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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NC22 Floor: 02

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ND22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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NE22 Floor: 02

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NF22 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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NG22 Floor: 02

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NH22 Floor: 02

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NJ22 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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NM22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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NN22 Floor: 02

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NP22 Floor: 02

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NQ22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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NR22 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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NS22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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NT22 Floor: 02

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NU22 Floor: 02

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NV22 Floor: 02

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NW22 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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NX23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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NY23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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PA23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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PB23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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PC23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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PD23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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PE23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
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PF23 Floor: 02

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PG23 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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PJ23 Floor: 02

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PN23 Floor: 02

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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PP23 Floor: 02

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tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PS23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PT23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

PU23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PV23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PW23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PX23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

PY23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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QA23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QB23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QC23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QD23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QE23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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QF23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QG23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QH23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QJ23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QK23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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QL23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QM23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QN23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QP23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QQ23 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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QR23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QS23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QT23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QU23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QV23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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QW23 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QX24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

QY24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RA24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RB24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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RC24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RD24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RE24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RF24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RG24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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RH24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RJ24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RK24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RL24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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RM24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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RN24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RP24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RQ24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RR24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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RS24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

RT24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RU24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RV24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RW24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

RX24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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RY24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SA24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SB24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SC24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SD24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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SE24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SF24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SG24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SH24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SJ24 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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SK24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SL24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SM24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SN24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SP24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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SQ24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SR24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SS24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

ST24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SU24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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SV24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SW24 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SX25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

SY25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TA25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

TB25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TC25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TD25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TE25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TF25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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TG25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TH25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TJ25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TK25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TL25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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TM25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TN25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TP25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TQ25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TR25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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TS25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TT25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TU25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TV25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TW25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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TX25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

TY25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UA25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UB25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UC25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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UD25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UE25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UF25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UG25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UH25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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UJ25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UK25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UL25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UM25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UN25 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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UP25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UQ25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UR25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

US25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UT25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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UU25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UV25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UW25 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UX26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

UY26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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VA26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VB26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VC26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VD26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VE26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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VF26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

VG26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VH26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VJ26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

VK26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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VL26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VM26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VN26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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VP26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

VQ26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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VR26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VS26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VT26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VU26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VV26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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VW26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VX26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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VY26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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WA26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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WB26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	18-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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WC26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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WD26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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WE26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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WF26 Floor: 02

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WG26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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WH26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WJ26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WK26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WL26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WM26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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WN26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WP26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WQ26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WR26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WS26 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

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Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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WT26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WU26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WV26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WW26 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

WX27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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WY27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XA27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XB27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XC27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XD27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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XE27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XF27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XG27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XH27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XJ27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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XK27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XL27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XM27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XN27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XP27 Floor: 02

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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XQ27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XR27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XS27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XT27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XU27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	08-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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XV27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XW27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

XX27 Floor: 02

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
15	30-40	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	0.59	LF	8-0330-01	0588-2008-0043	W16

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0044 @ grid XX27 Photo #08-0330-019 and 0588-2008-0045 @ grid W16 Photo #08-0330-019

V18 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

V19 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

V19 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

W20 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

W21 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

W22 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

X23 Floor: 03

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X23 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

X24 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

X25 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

Y26 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

Y27 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Y27 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
49	10-20	154	Roof Drain	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	18.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0148 @ grid V27 Photo #08-0330-114 and 0588-2008-0149 @ grid Y18 Photo #08-0330-115 and 0588-2008-0150 Photo #08-0330-116

AB21 Floor: 03

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
42	0-10	349	Boiler	TSI/Friable	Exhaust Stack Insulation, Mag Type		(1) Damaged or significantly damaged thermal system insulation ACM.	72.00	SF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0127 @ grid AB21 Photo #08-0330-096 and 0588-2008-0128 @ grid AB21 Photo #08-0330-096 and 0588-2008-0129

S17 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	8-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

S28 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
71	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	7.60	LF	8-0330-17:	0588-2008-0211	W28

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

T18 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

T18 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

T28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
18	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF	08-0330-02	0588-2008-0055	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and 0588-2008-0057 @ grid X29 Photo #08-0330-021

T29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
71	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	7.60	LF	08-0330-17:	0588-2008-0211	W28

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

U19 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

U20 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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U28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
18	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF	08-0330-02	0588-2008-0055	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and 0588-2008-0057 @ grid X29 Photo #08-0330-021

U30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
71	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	7.60	LF	08-0330-17:	0588-2008-0211	W28

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

V17 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15'	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

V18 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15'	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

V21 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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V28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
18	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF	08-0330-02	0588-2008-0055	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and 0588-2008-0057 @ grid X29 Photo #08-0330-021

V31 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
71	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	7.60	LF	08-0330-17:	0588-2008-0211	W28

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

W17 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14:	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

W18 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14:	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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W18 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

W19 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

W20 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

W22 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

W28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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W28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

W29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
18	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF	8-0330-02	0588-2008-0055	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and
0588-2008-0057 @ grid X29 Photo #08-0330-021

W32 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
71	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	7.60	LF	8-0330-17:	0588-2008-0211	W28

ACM: Positive **Chrysotile:** 30 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0212 @ grid S32 Photo #08-0330-176 and 0588-2008-0213 @ grid W28 Photo #08-0330-177

X18 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	8-0330-15	0588-2008-0187	AB18

ACM: Positive **Chrysotile:** 10 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X19 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM: Positive		**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150				
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM: Positive		**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153				
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM: Negative		**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156				
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM: Negative		**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162				

X20 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM: Positive		**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150				
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM: Negative		**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162				

X21 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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X21 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

X22 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

X23 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

X29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
18	10-20	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	15.00	LF	08-0330-02	0588-2008-0055	X29

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0056 @ grid T28 Photo #08-0330-021 and 0588-2008-0057 @ grid X29 Photo #08-0330-021

72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y20 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	18-0330-15	0588-2008-0187	AB18
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			

Y21 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	18-0330-14	0588-2008-0184	AD17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150			
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	18-0330-15	0588-2008-0187	AB18
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y21 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM:	Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174			

Y22 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150			
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM:	Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174			

Y23 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y23 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	18-0330-15	0588-2008-0187	AB18
	ACM:	Positive	Chrysotile: 10	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	18-0330-15	0588-2008-0193	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			

Y24 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	18-0330-14:	0588-2008-0181	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147			
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	18-0330-15	0588-2008-0193	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			

Y28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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Y28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
67	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	107.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165

Y29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
69	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	145.00	SF	8-0330-16	0588-2008-0205	Y29

ACM: Positive **Chrysotile:** 80 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0206 @ grid AB29 Photo #08-0330-170 and 0588-2008-0207 @ grid Y29 Photo #08-0330-171

Y30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

AA23 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	8-0330-14	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	8-0330-17	0588-2008-0208	Y21

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA24 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150					
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153					
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156					
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162					
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174					

AA25 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14	0588-2008-0181	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147					

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AA25 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150			
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM:	Positive	Chrysotile: 10	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM:	Positive	Chrysotile: 0	Amosite: 50	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174			

AA26 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA26 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147					
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153					
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156					
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15'	0588-2008-0193	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159					

AA29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
67	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	107.00	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165					
69	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	145.00	SF	08-0330-16'	0588-2008-0205	Y29
	ACM: Positive	**Chrysotile:** 80	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0206 @ grid AB29 Photo #08-0330-170 and 0588-2008-0207 @ grid Y29 Photo #08-0330-171					

AA30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AA30 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

AB18 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
68	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	165.00	SF	08-0330-16	0588-2008-0202	AB18

ACM: Positive **Chrysotile:** 80 **Amosite:** 5 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0203 @ grid AC19 Photo #08-0330-167 and 0588-2008-0204 @ grid AB18 Photo #08-0330-168

AB26 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174

AB27 Floor: L1

tem	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB27 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147					
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14:	0588-2008-0184	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150					
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153					
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156					
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15'	0588-2008-0193	AD17
	ACM: Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159					
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM: Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162					
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17:	0588-2008-0208	Y21
	ACM: Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:** Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174					

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
63	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	13.64	LF	08-0330-15	0588-2008-0187	AB18
	ACM:	Positive	Chrysotile: 10	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0188 @ grid XX28 Photo #08-0330-152 and 0588-2008-0189 @ grid AB18 Photo #08-0330-153			
64	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	12.73	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0190 @ grid AB18 Photo #08-0330-154 and 0588-2008-0191 @ grid XX28 Photo #08-0330-155 and 0588-2008-0192 Photo #08-0330-156			
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17
	ACM:	Positive	Chrysotile: 10	Amosite: 30	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	Chrysotile: 0	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM:	Positive	Chrysotile: 0	Amosite: 50	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174			

AB29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
69	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	145.00	SF	08-0330-16	0588-2008-0205	Y29
	ACM:	Positive	Chrysotile: 80	Amosite: 0	Crocidolite 0	Tremolite: 0	Actinolyte: 0	Comments:	Two more samples were collected 0588-2008-0206 @ grid AB29 Photo #08-0330-170 and 0588-2008-0207 @ grid Y29 Photo #08-0330-171			

AB30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AB30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
67	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	107.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165

AB31 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

AC19 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
68	0-10	66	Condensate	TSI/Friable	Tank, Mag Type Block Insulation		(1) Damaged or significantly damaged thermal system insulation ACM.	165.00	SF	8-0330-16	0588-2008-0202	AB18

ACM: Positive **Chrysotile:** 80 **Amosite:** 5 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0203 @ grid AC19 Photo #08-0330-167 and 0588-2008-0204 @ grid AB18 Photo #08-0330-168

AC28 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	8-0330-14	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	8-0330-14	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AC29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150			
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17	0588-2008-0208	Y21
	ACM:	Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174			

AC30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159			
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			
	ACM:	Negative	**Chrysotile:** 0	**Amosite:** 0	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162			

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

AC30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
70	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	49.50	LF	08-0330-17:	0588-2008-0208	Y21

ACM: Positive **Chrysotile:** 0 **Amosite:** 50 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0209 @ grid AC30 Photo #08-0330-173 and 0588-2008-0210 @ grid Y21 Photo #08-0330-174

AC31 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
67	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	107.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165

AC32 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
72	0-10	22	City Water	TSI/Friable	Mud Fittings on Fiberglass Straight Line	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	119.17	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0214 @ grid AC28 Photo #08-0330-178 and 0588-2008-0215 @ grid W32 Photo #08-0330-179 and 0588-2008-0216 Photo #08-0330-180

AD29 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
61	0-10	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	34.62	LF	08-0330-14:	0588-2008-0181	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0182 @ grid S29 Photo #08-0330-146 and 0588-2008-0183 @ grid AD17 Photo #08-0330-147

AD30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

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AD30 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

AD31 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
62	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	30.00	LF	08-0330-14	0588-2008-0184	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0185 @ grid W31 Photo #08-0330-149 and 0588-2008-0186 @ grid AD17 Photo #08-0330-150

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
65	0-10	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	44.33	LF	08-0330-15	0588-2008-0193	AD17

ACM: Positive **Chrysotile:** 10 **Amosite:** 30 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Two more samples were collected 0588-2008-0194 @ grid V32 Photo #08-0330-158 and 0588-2008-0195 @ grid AD17 Photo #08-0330-159

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

AD32 Floor: L1

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
66	0-10	140	Drain Line	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	36.88	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0196 @ grid AD17 Photo #08-0330-160 and 0588-2008-0197 @ grid W32 Photo #08-0330-161 and 0588-2008-0198 @ grid AD17 Photo #08-0330-162

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
67	0-10	123	City Water	TSI/Friable	Mag Type Straight Run & Fittings Insulation	6"-12"	(1) Damaged or significantly damaged thermal system insulation ACM.	107.00	LF			

ACM: Negative **Chrysotile:** 0 **Amosite:** 0 **Crocidolite** 0 **Tremolite:** 0 **Actinolyte:** 0 **Comments:** Three samples were collected 0588-2008-0199 @ grid AD32 Photo #08-0330-163 and 0588-2008-0200 @ grid Y28 Photo #08-0330-164 and 0588-2008-0201 Photo #08-0330-165

Survey Data Report by Grid

Site: 1490 Stamping - Mansfield **Structure:** 9927 Power House and Waste Treatment Bldg

Service providers are fully responsible for the quality and accuracy of the information in this report.

Y17 Floor: M3

Item	Level	HA #	System	Type	Description	Size	Assessment Category	Estimated Quantity	Unit	Photo #	Sample#	Sample Location
50	10-20	11	Steam	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	54.00	LF	08-0330-11	0588-2008-0151	Y17
	ACM:	Positive	**Chrysotile:** 10	**Amosite:** 30	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0152 @ grid Y17 Photo #08-0330-118 and 0588-2008-0153 @ grid Y17 Photo #08-0330-119			
51	10-20	42	Condensate	TSI/Friable	Mag Type Straight Run & Fittings Insulation	1/2"-6"	(1) Damaged or significantly damaged thermal system insulation ACM.	52.00	LF	08-0330-11	0588-2008-0154	Y17
	ACM:	Positive	**Chrysotile:** 0	**Amosite:** 50	**Crocidolite** 0	**Tremolite:** 0	**Actinolyte:** 0	**Comments:**	Two more samples were collected 0588-2008-0155 @ grid Y17 Photo #08-0330-118 and 0588-2008-0156 @ grid Y17 Photo #120			

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
1	FIRE PUMP	1	A		1	EXTERIOR	ROOFING MATERIAL			☑
2	FIRE PUMP	1	A		1	EXTERIOR	ROOFING TAR			☐
3	FIRE PUMP	1	A		1	INTERIOR	PIPE INSULATION-MISCELLANEOUS			☐

GENERAL MOTORS CORPORATION

C.P.C. MANSFIELD

RICHLAND COUNTY, OHIO

MANSFIELD OHIO PLANT

ASBESTOS MANAGEMENT PROGRAM

LIST OF DRAWINGS

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MARCH 2000

PREPARED BY:

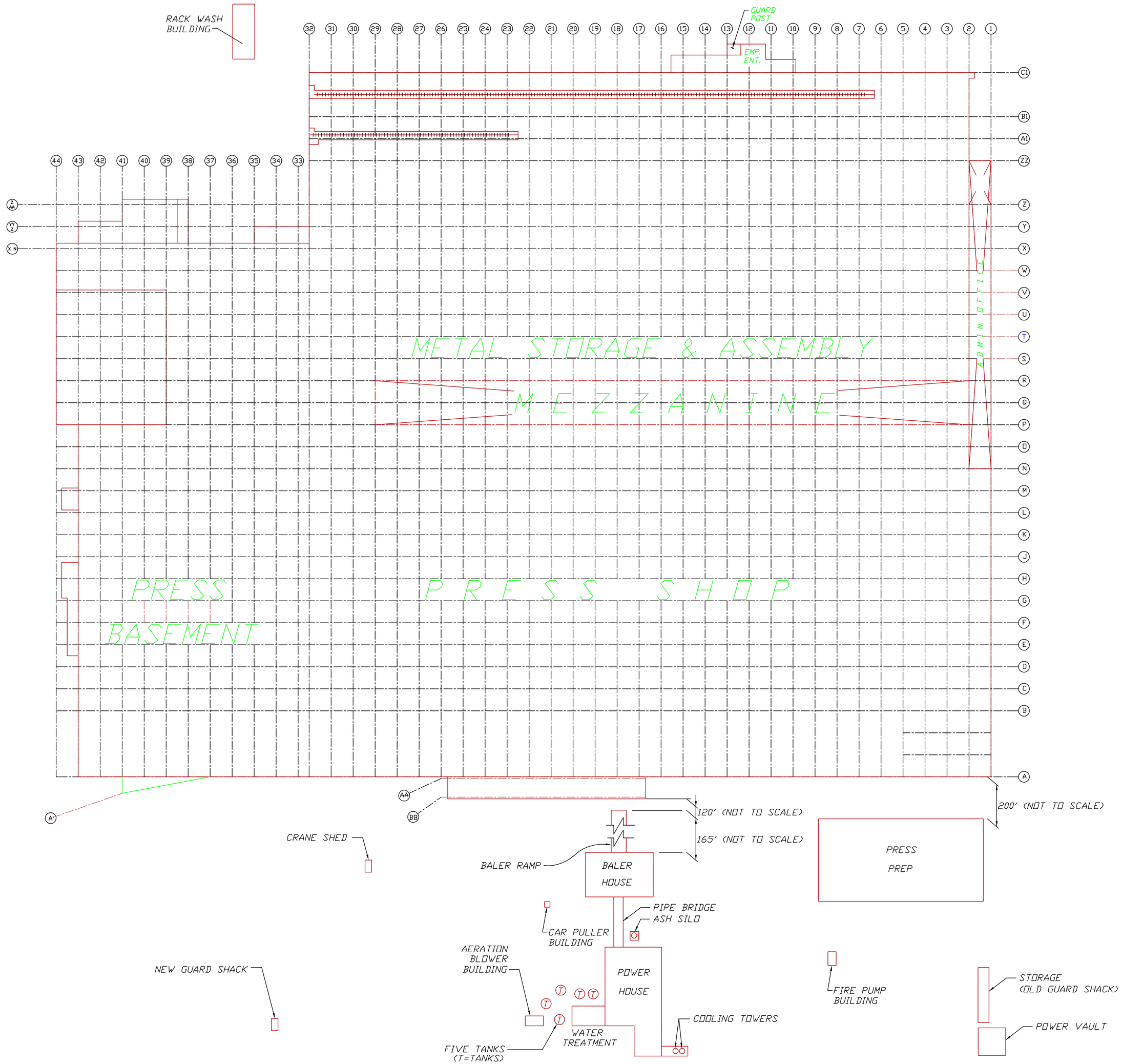
EMERALD ENVIRONMENTAL, INC.

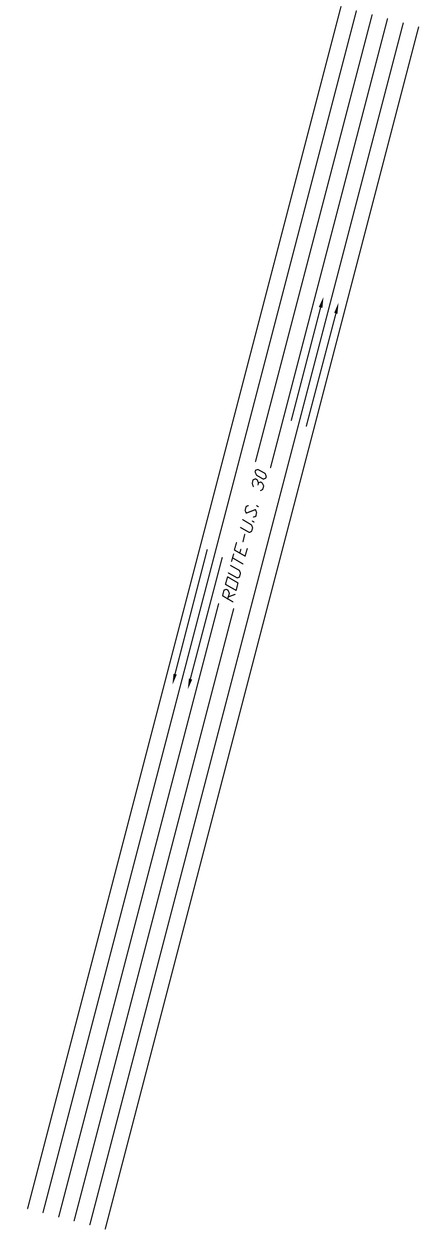
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY

P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

PROJECT No. 990003

SHEET No. 1 OF 25





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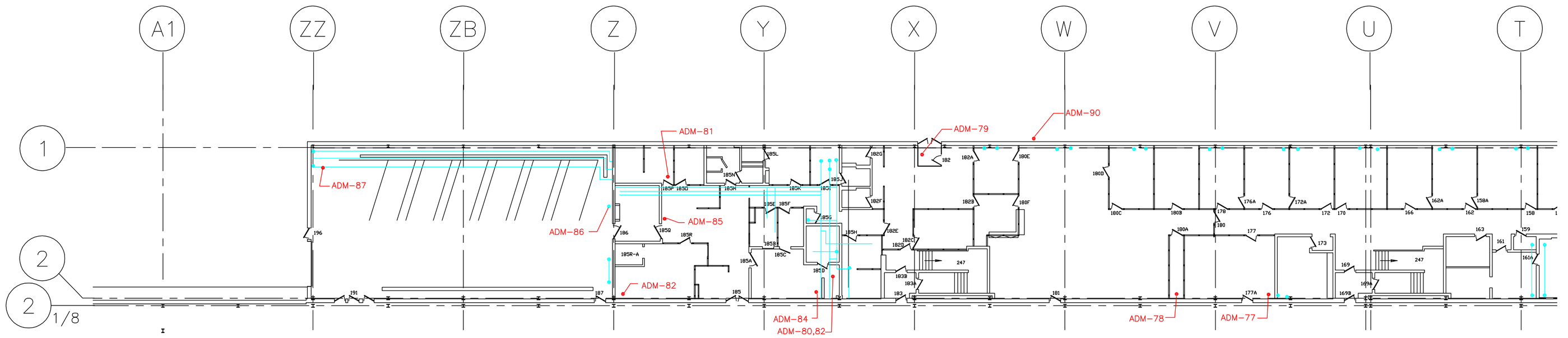
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER
DRAWN BY	PAT
PROJECT ENGR.	
PROJECT MGR.	
CHECKED BY	RWB
APPROVED	
APPROVED	
DATE	MARCH, 2000

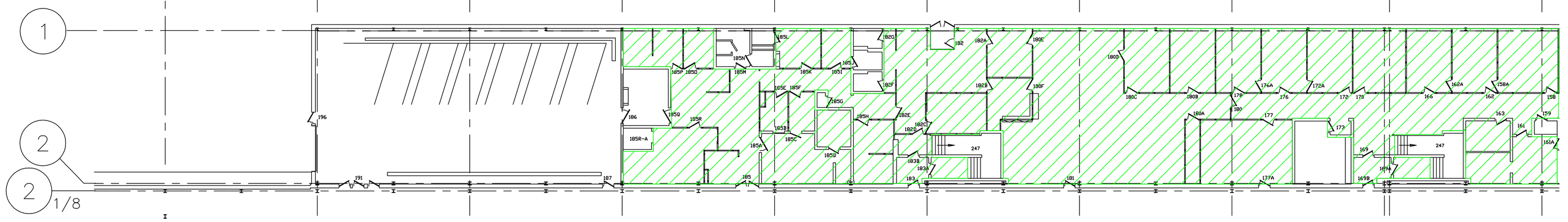
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
BALER HOUSE PLAN

SCALE :	1"=100'
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	2 OF 25



PIPING PLAN



FLOOR TILE PLAN

N

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION ----------

		FITTINGS/PIPE INSULATION
COOLING WATER	=	~~CW~~ ACM/NON ACM
25 psi STEAM	=	~~25 STM~~ ACM/ACM
175 psi STEAM	=	~~175 STM~~ ACM/ACM
HOT OR COLD WATER	=	~~HCW~~ ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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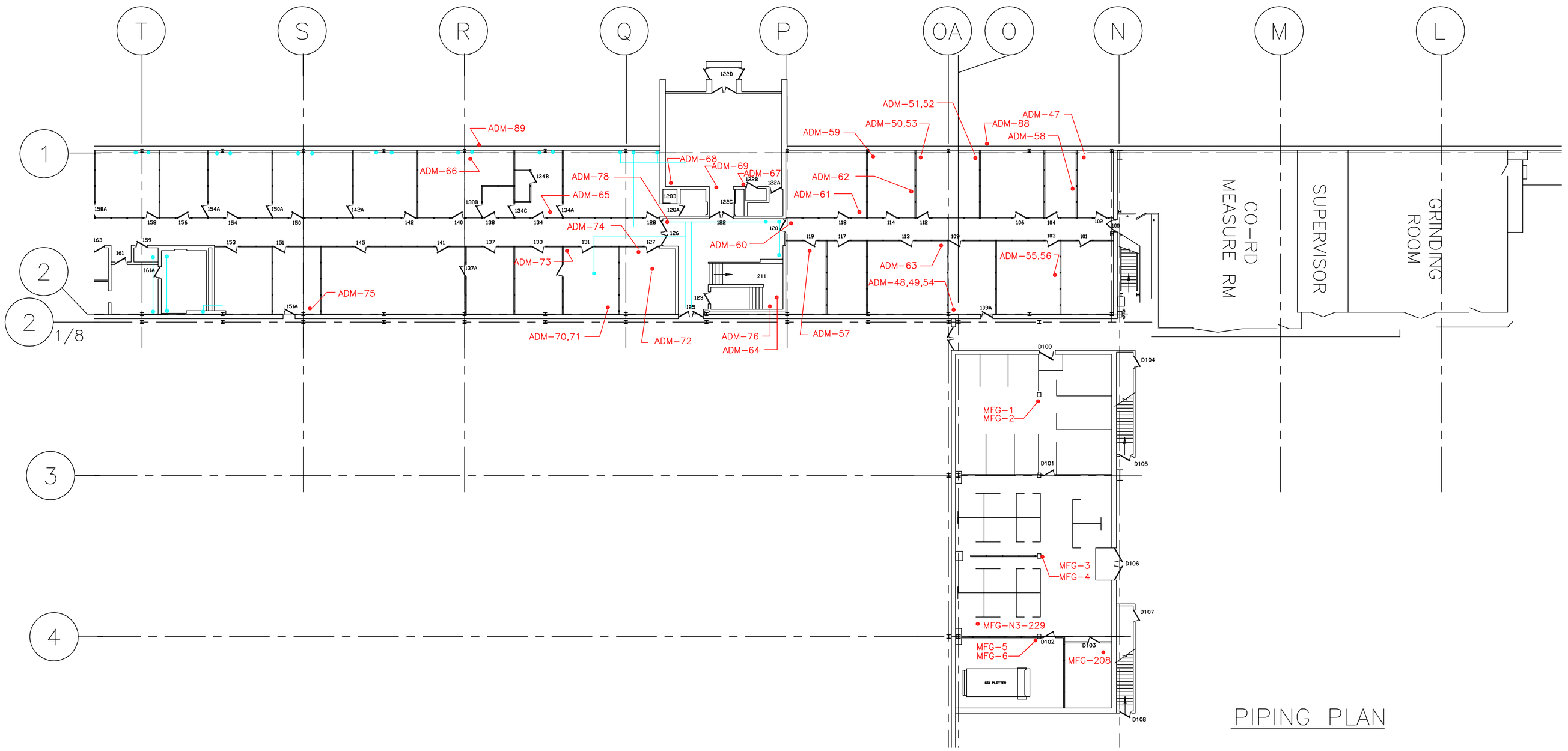
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR ROBERT W. BOXLER	APPROVED	GENERAL MOTORS CORPORATION M.F.D. MANSFIELD PLANT	SCALE : 1"=16'-0"
DRAWN BY PAT		RICHLAND COUNTY OHIO	PROJECT NO. 990003
PROJECT ENGR.	APPROVED	MANSFIELD OHIO PLANT ASBESTOS SURVEY	DRAWING NO. 00-0000-00-00
PROJECT MGR.		ADMINISTRATION 1st FLOOR TILE & PIPING PLAN - WEST	SHEET 3 OF 25
CHECKED BY RWB	DATE MARCH, 2000		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ADM-58
ADM-63
ADM-48,49,54
ADM-55,56
CO-RD MEASURE RM
SUPERVISOR
GRINDING ROOM
MFG-1
MFG-2
MFG-3
MFG-4
MFG-N3-229
MFG-5
MFG-6
MFG-208
D100
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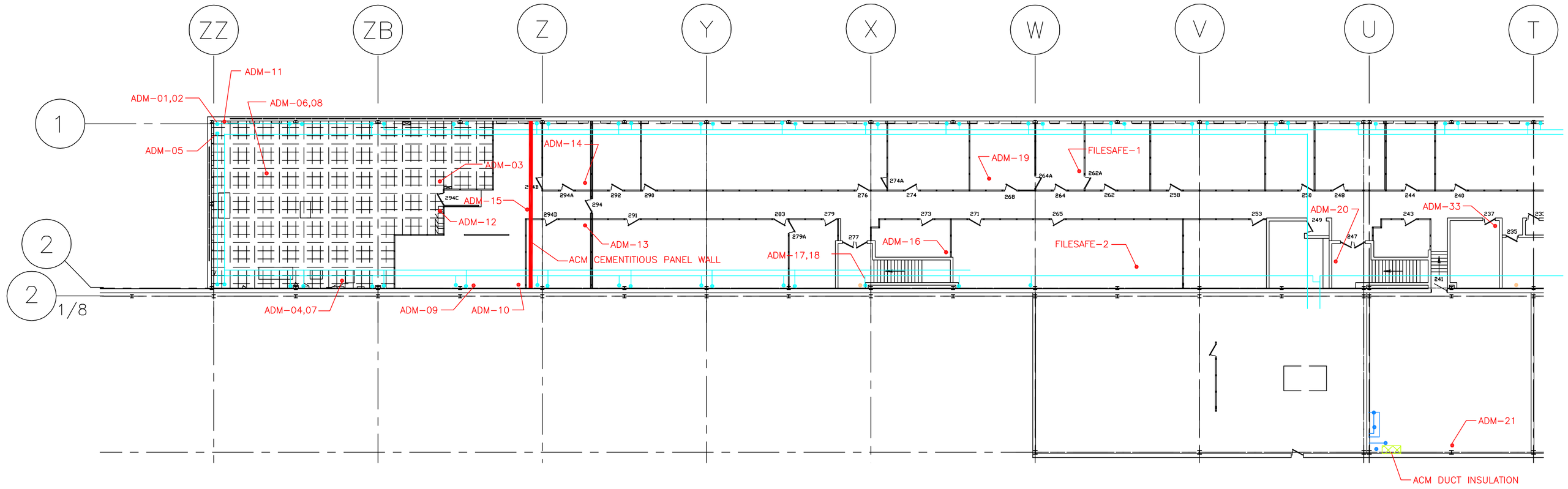
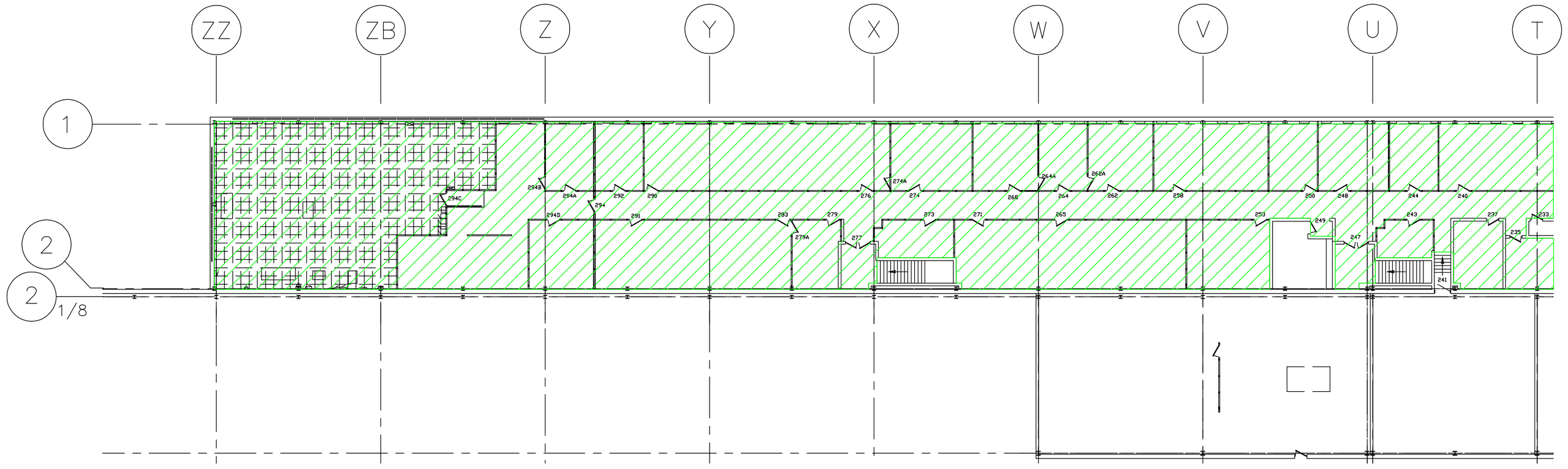


PIPING PLAN



FLOOR TILE PLAN

N

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	=	CW — ACM/NON ACM
25 psi STEAM	=	25 STM — ACM/ACM
175 psi STEAM	=	175 STM — ACM/ACM
HOT OR COLD WATER	=	HCW — ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	
ACM DUCT INSULATION	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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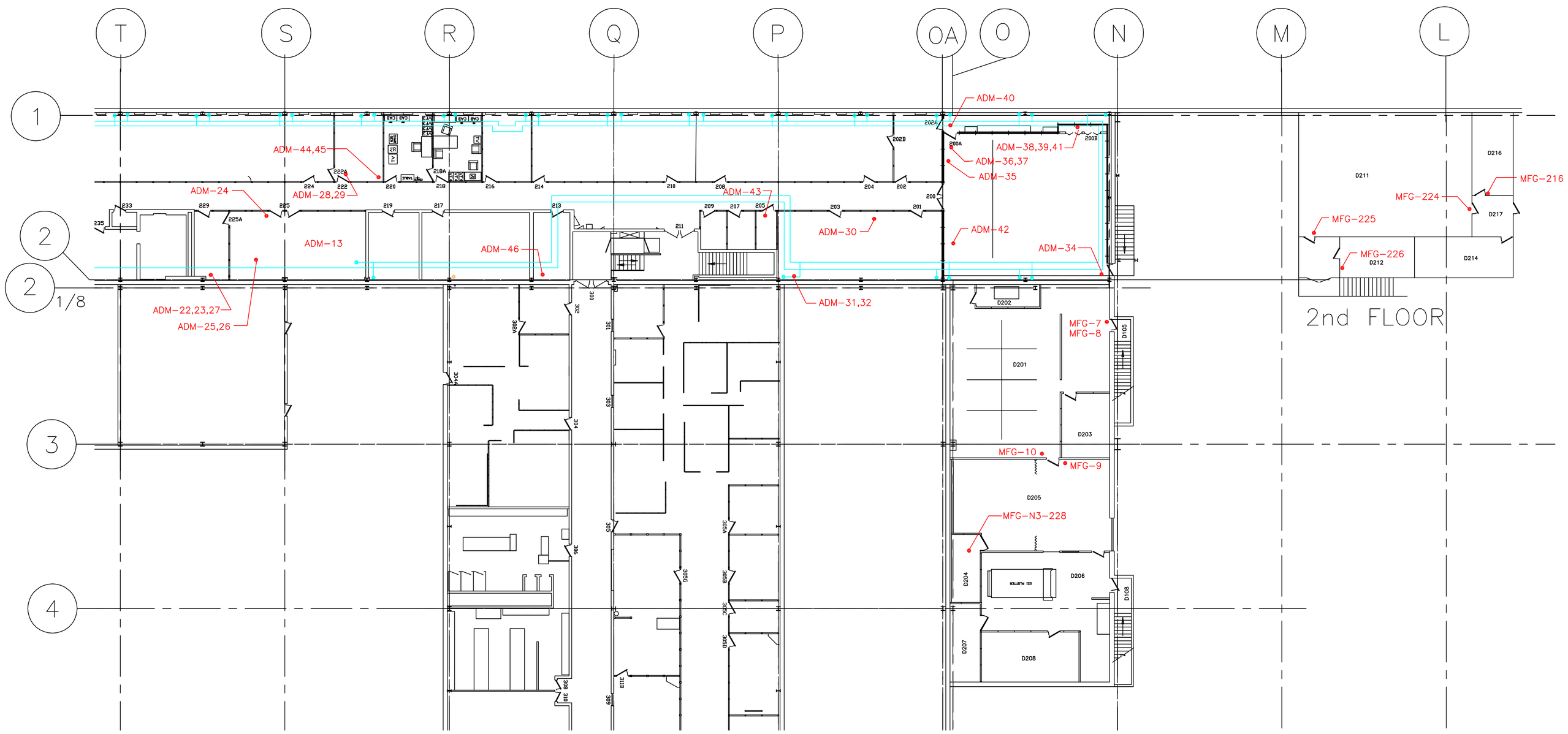
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER
DRAWN BY	PAT
PROJECT ENGR.	
PROJECT MGR.	
CHECKED BY	RWB
APPROVED	
APPROVED	
DATE	MARCH, 2000

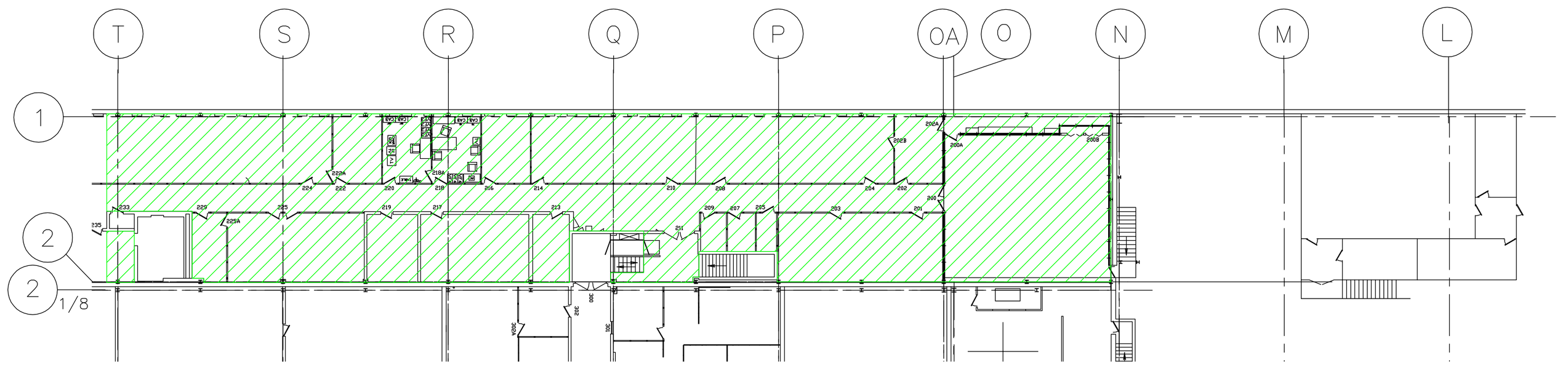
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
ADMINISTRATION 2nd FLOOR TILE & PIPING PLAN – WEST

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	5 OF 25



PIPING PLAN



FLOOR TILE PLAN

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	=	~~CW~~ ACM/NON ACM
25 psi STEAM	=	~~25 STM~~ ACM/ACM
175 psi STEAM	=	~~175 STM~~ ACM/ACM
HOT OR COLD WATER	=	~~HCW~~ ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	

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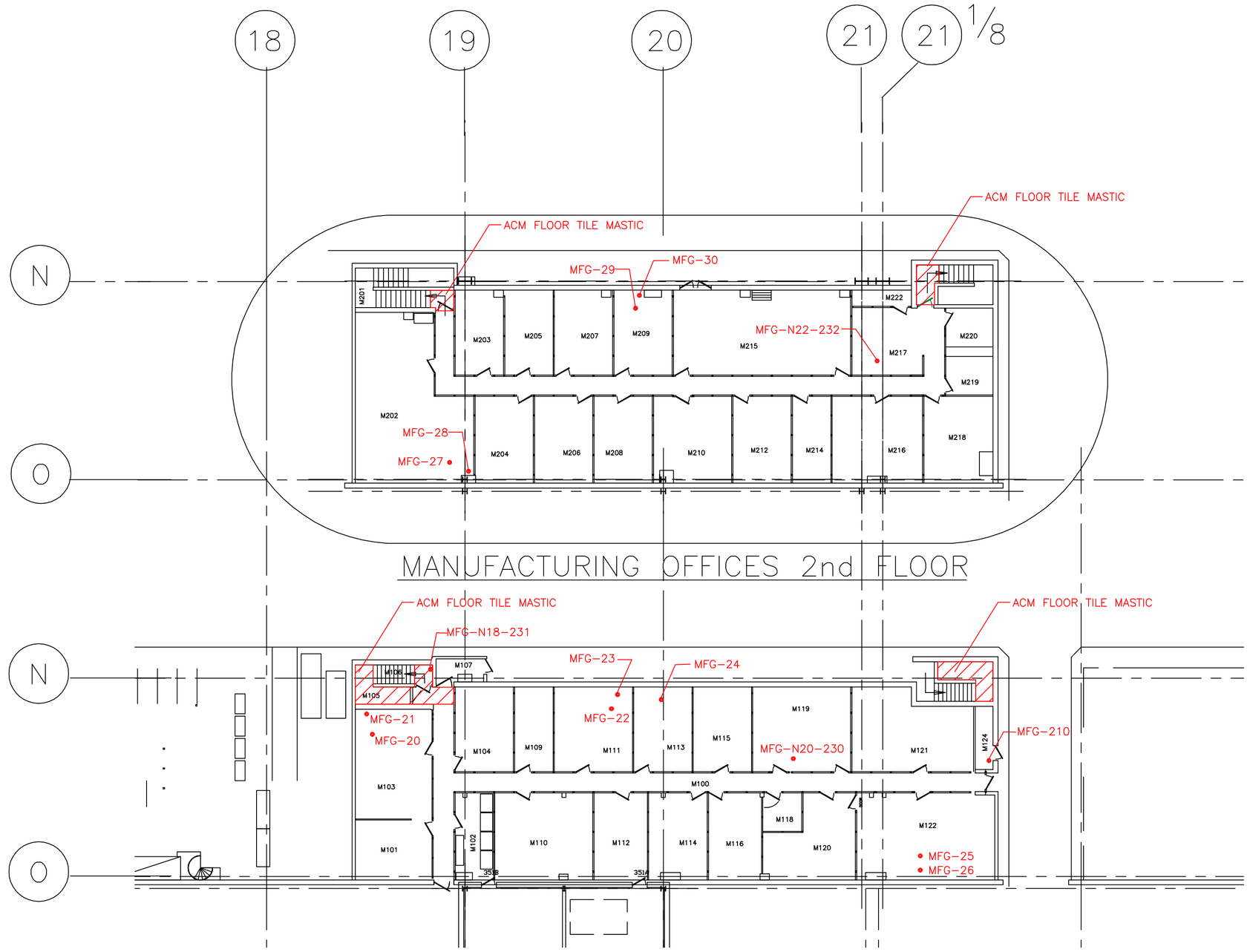
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
ADMINISTRATION 2nd FLOOR TILE & PIPING PLAN – EAST

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	6 OF 25



MANUFACTURING OFFICES 2nd FLOOR

MANUFACTURING OFFICES 1st FLOOR

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

			FITTINGS/PIPE INSULATION
COOLING WATER	=	CW	ACM/NON ACM
25 psi STEAM	=	25 STM	ACM/ACM
175 psi STEAM	=	175 STM	ACM/ACM
HOT OR COLD WATER	=	HCW	ACM/ACM
STRUCTURAL	=		
RISERS	=	●	
SAMPLE POINT	=	● BH-44	
UNIT HEATER	=	UH	
FLOOR TILE-MASTIC IS ACM	=		

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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INSPECTOR	ROBERT W. BOXLER
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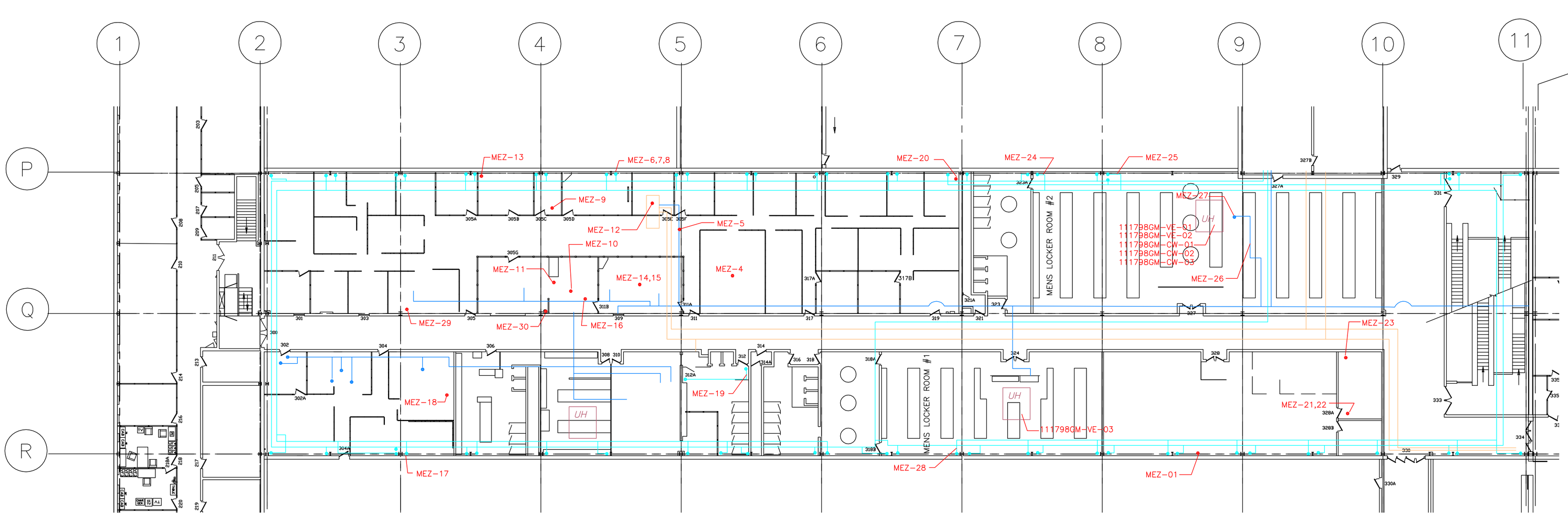
PROJECT ENGR.	
PROJECT MGR.	
CHECKED BY	RWB
APPROVED	
APPROVED	
DATE	MARCH, 2000

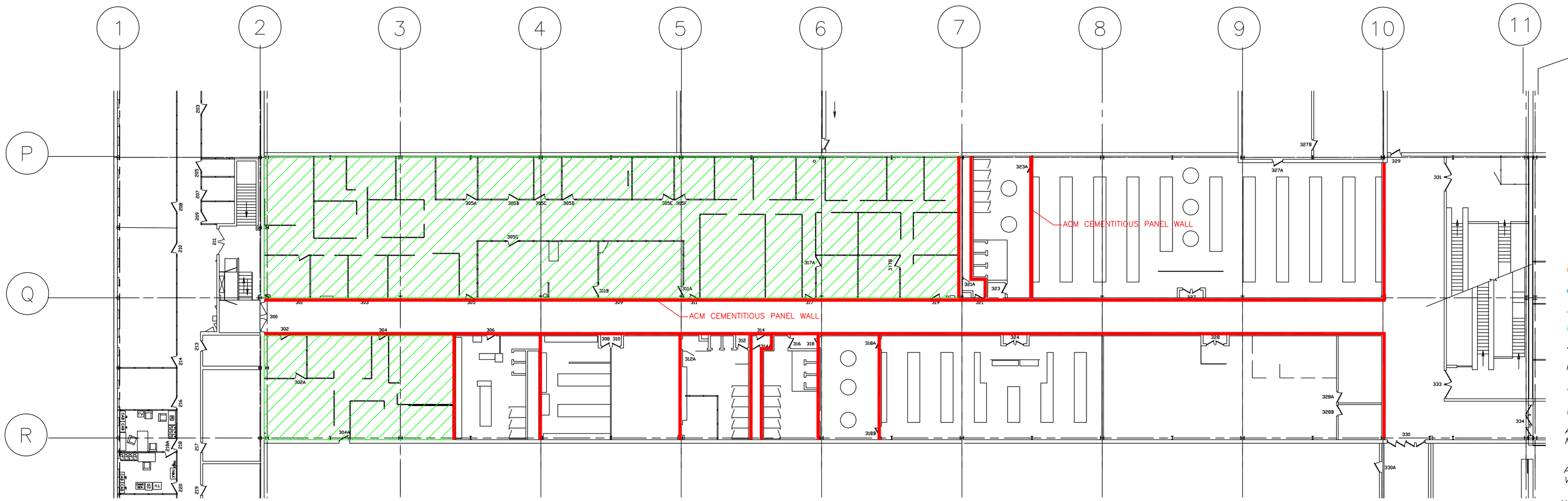
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MANUFACTURING OFFICES 1st & 2nd FLOORS

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	7 OF 25



PIPING PLAN



FLOOR TILE PLAN

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	=	~~CW~~ ACM/NON ACM
25 psi STEAM	=	~~25 STM~~ ACM/ACM
175 psi STEAM	=	~~175 STM~~ ACM/ACM
HOT OR COLD WATER	=	~~HCW~~ ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	
ACM CEMENTATIOUS WALL	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

HAMMONTREE & ASSOCIATES, LTD.
ENGINEERS, PLANNERS, SURVEYORS
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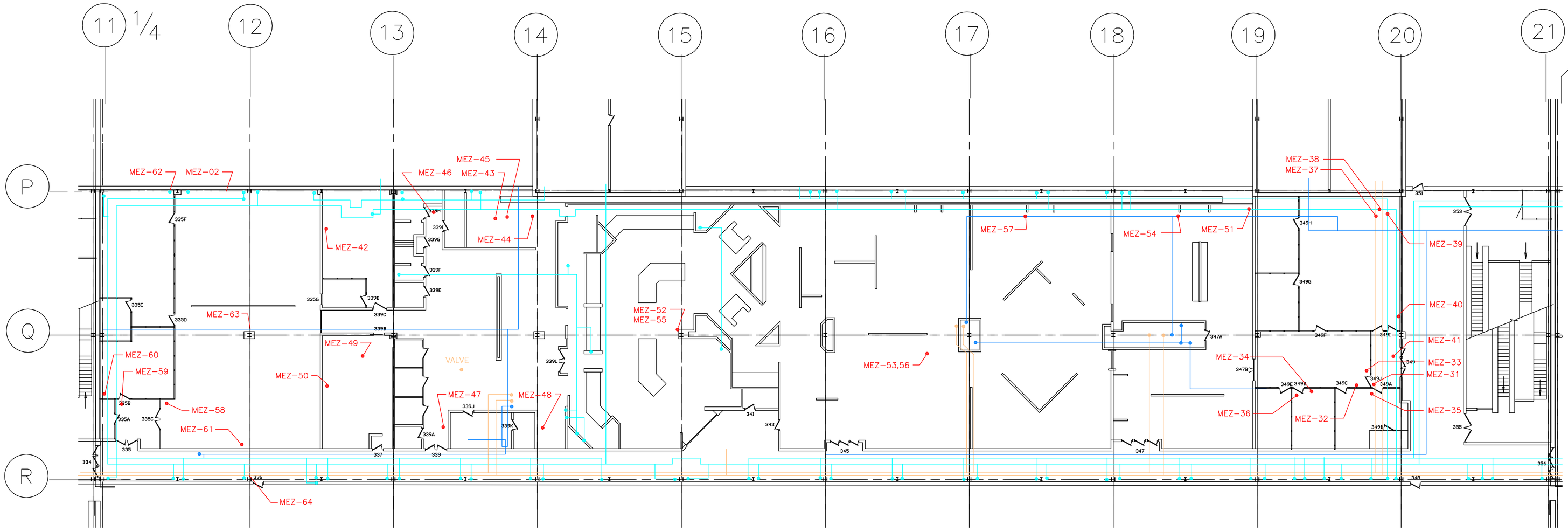
EMERALD ENVIRONMENTAL, INC.
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

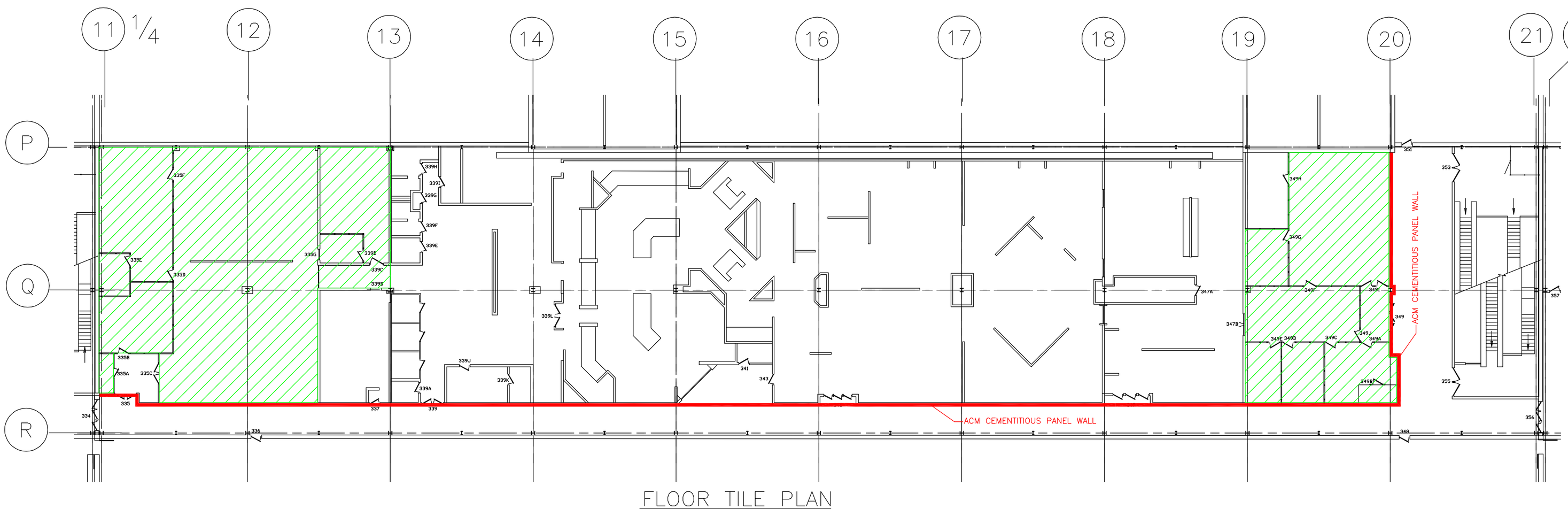
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MEZZANINE FLOOR TILE & PIPING PLAN – NORTH

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	8 OF 25



PIPING PLAN



FLOOR TILE PLAN

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	=	~~CW~~ ACM/NON ACM
25 psi STEAM	=	~~25 STM~~ ACM/ACM
175 psi STEAM	=	~~175 STM~~ ACM/ACM
HOT OR COLD WATER	=	~~HCW~~ ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	
ACM CEMENTATIOUS WALL	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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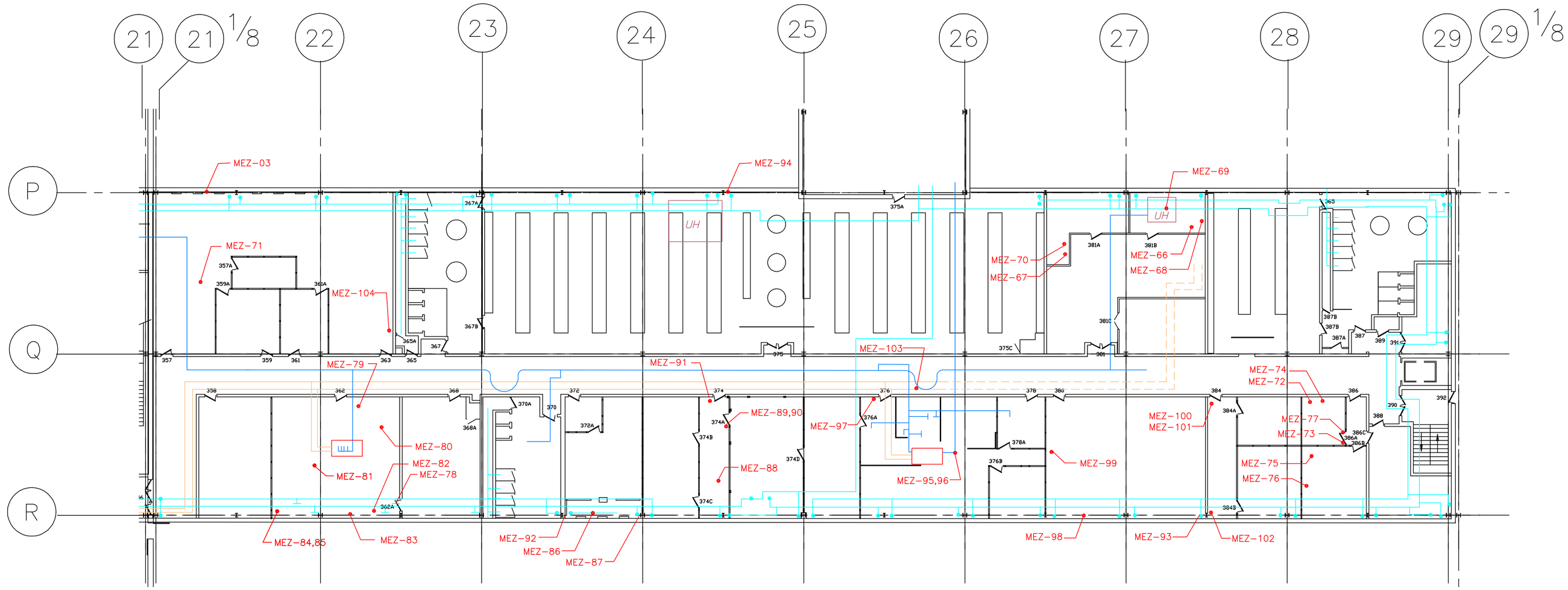
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

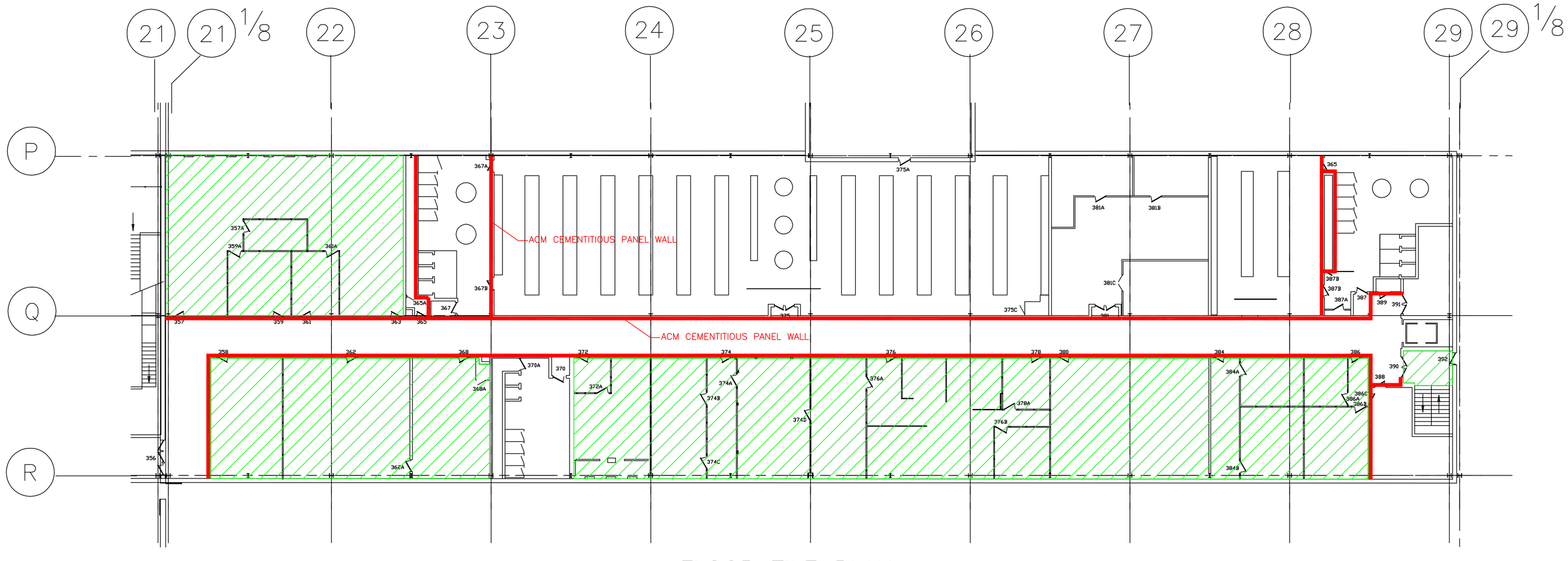
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MEZZANINE FLOOR TILE & PIPING PLAN – CENTRAL

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	9 OF 25



PIPING PLAN



FLOOR TILE PLAN

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	=	CW — ACM/NON ACM
25 psi STEAM	=	25 STM — ACM/ACM
175 psi STEAM	=	175 STM — ACM/ACM
HOT OR COLD WATER	=	HCW — ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-MASTIC IS NON-ACM	=	
ACM CEMENTATIOUS WALL	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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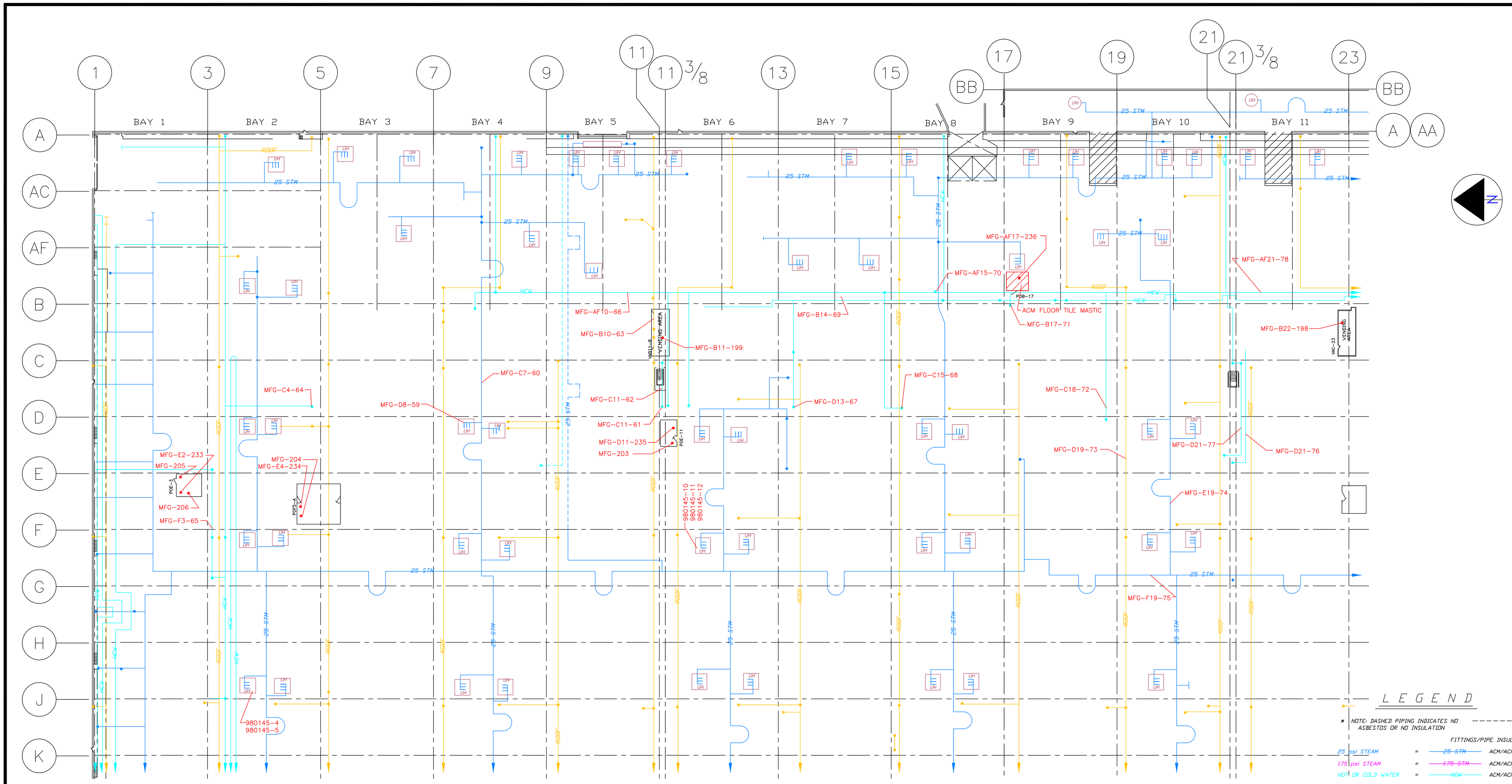
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER
DRAWN BY	PAT
PROJECT ENGR.	
PROJECT MGR.	
CHECKED BY	RWB
APPROVED	
APPROVED	
DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MEZZANINE FLOOR TILE & PIPING PLAN – SOUTH

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	10 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
25 psi STEAM	=	25 STM ACM/ACM
175 psi STEAM	=	175 STM ACM/ACM
HOT OR COLD WATER	=	HCW ACM/ACM
WELD WATER	=	WELD ACM/ACM
ROOF DRAIN	=	ROOF ACM/ACM
FLOOR DRAIN	=	FLOOR ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
FLOOR TILE-ACM MASTIC	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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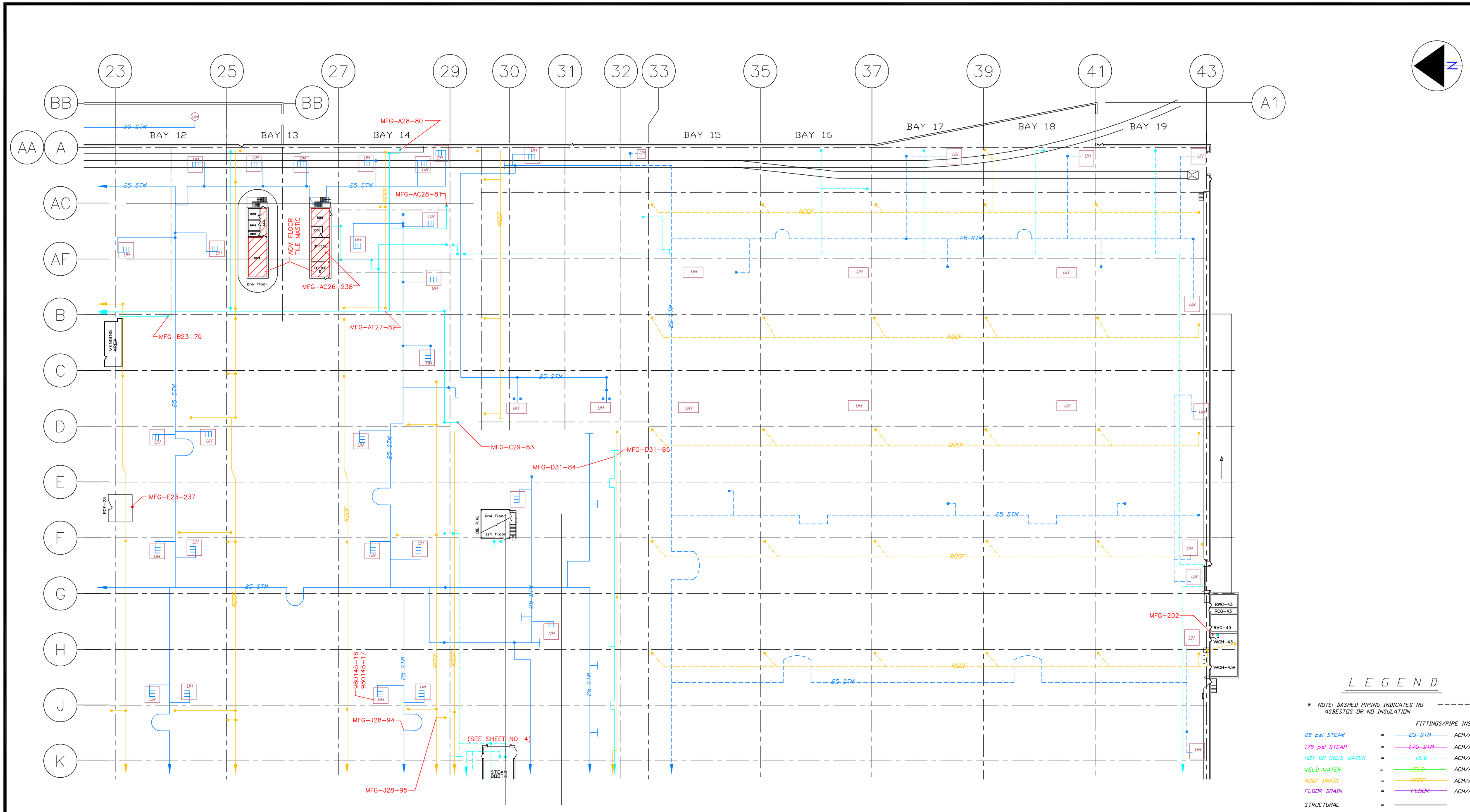
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE :	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	11 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
25 psi STEAM	=	25 STM ACM/ACM
175 psi STEAM	=	175 STM ACM/ACM
HOT OR COLD WATER	=	HCW ACM/ACM
WELD WATER	=	WELD ACM/ACM
ROOF DRAIN	=	ROOF ACM/ACM
FLOOR DRAIN	=	FLOOR ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	◆ BH-44
UNIT HEATER	=	UH
FLOOR TILE- ACM MASTIC	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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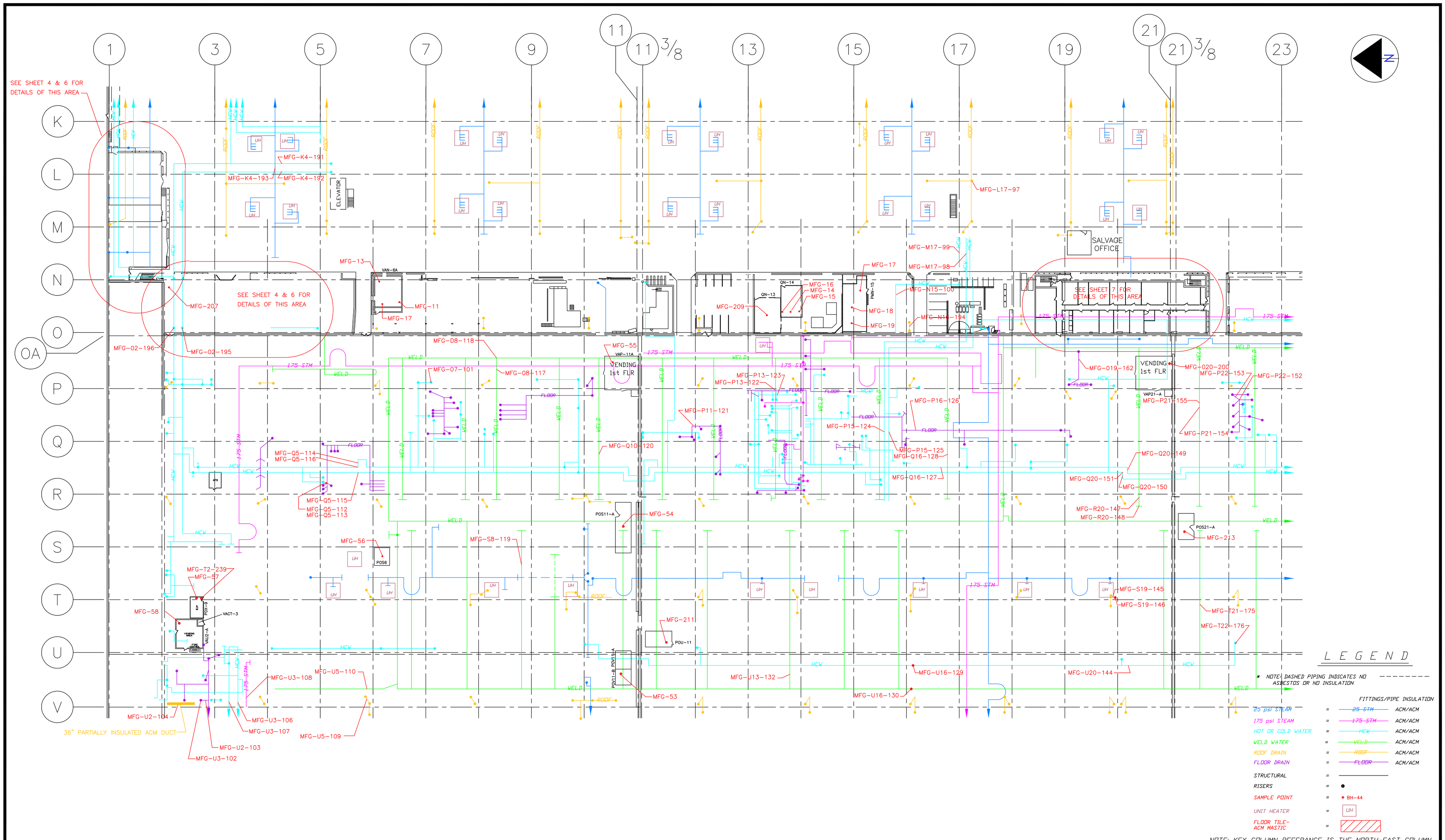
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE :	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	12 OF 25



LEGEND

NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

FITTINGS/PIPE INSULATION		
25 psi STEAM	= 25 STM	ACM/ACM
175 psi STEAM	= 175 STM	ACM/ACM
HOT OR COLD WATER	= HCW	ACM/ACM
WELD WATER	= WELD	ACM/ACM
ROOF DRAIN	= ROOF	ACM/ACM
FLOOR DRAIN	= FLOOR	ACM/ACM
STRUCTURAL	=	
RISERS	= ●	
SAMPLE POINT	= ● BH-44	
UNIT HEATER	= UH	
FLOOR TILE-ACM MASTIC	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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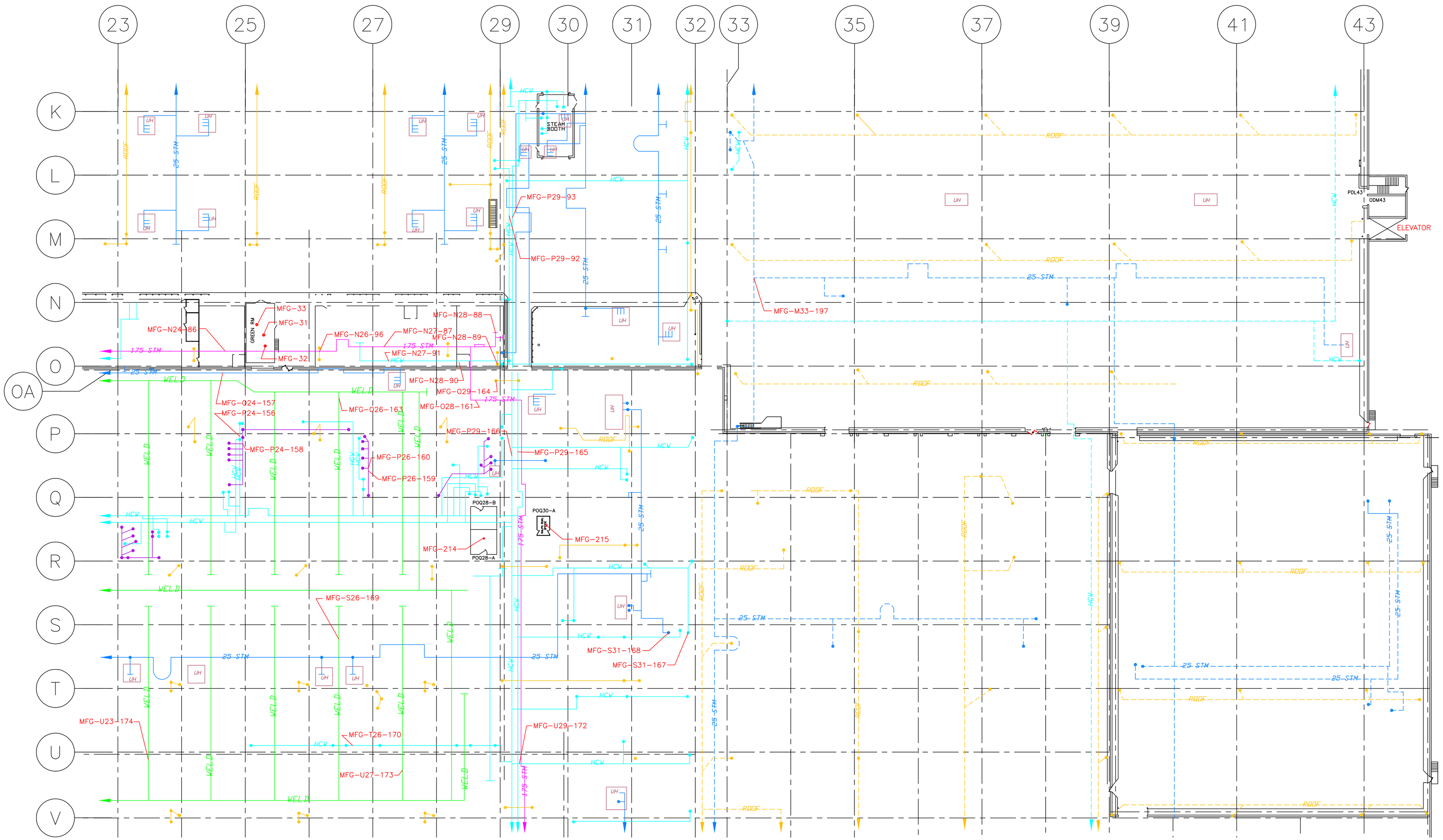
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE :	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	13 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
25 psi STEAM	=	25 STM — ACM/ACM
175 psi STEAM	=	175 STM — ACM/ACM
HOT OR COLD WATER	=	HCV — ACM/ACM
WELD WATER	=	WELD — ACM/ACM
ROOF DRAIN	=	ROOF — ACM/ACM
FLOOR DRAIN	=	FLOOR — ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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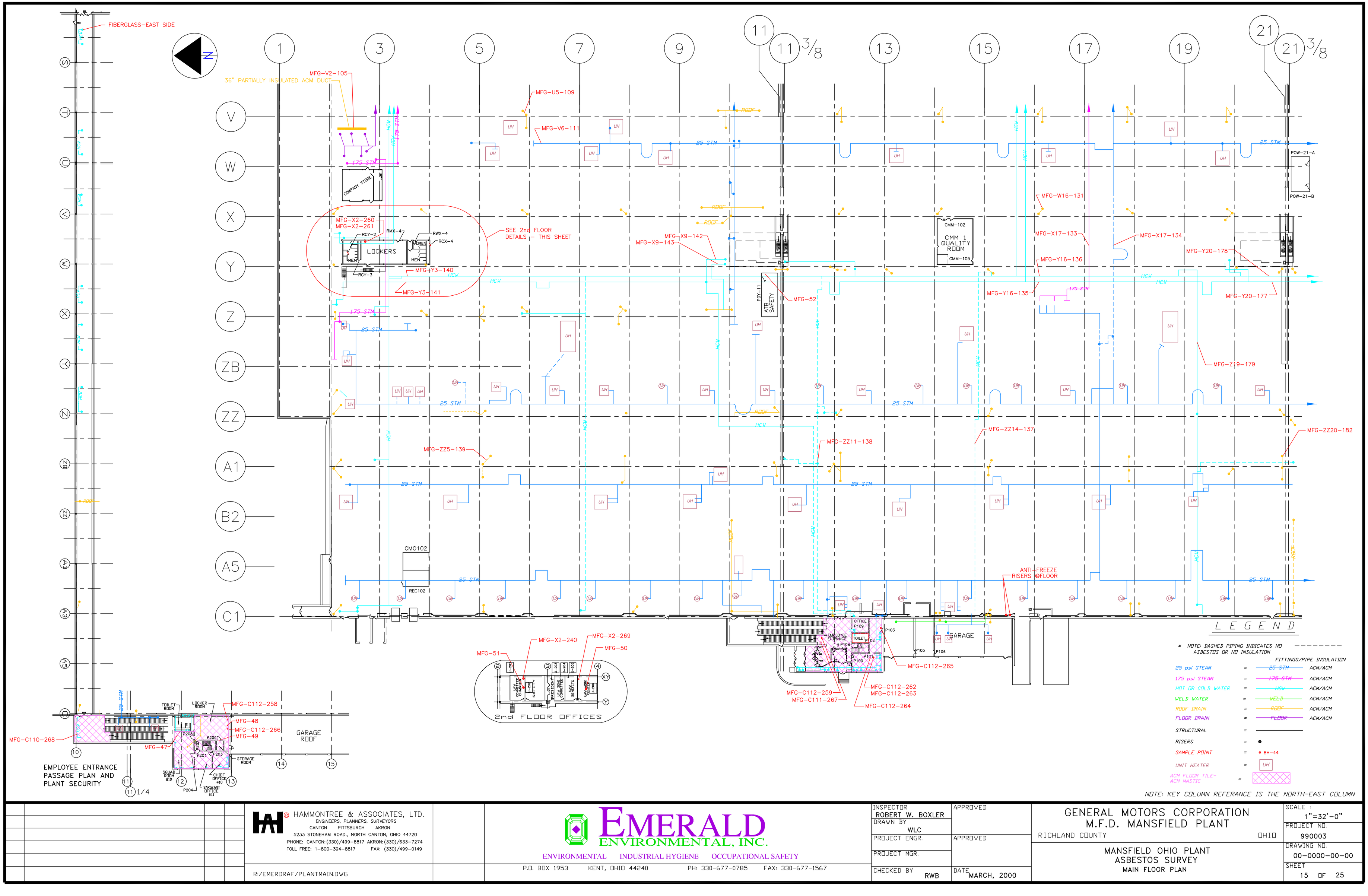
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	14 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
25 psi STEAM	=	25 STM ACM/ACM
175 psi STEAM	=	175 STM ACM/ACM
HOT OR COLD WATER	=	HCW ACM/ACM
WELD WATER	=	WELD ACM/ACM
ROOF DRAIN	=	ROOF ACM/ACM
FLOOR DRAIN	=	FLOOR ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH
ACM FLOOR TILE-ACM MASTIC	=	

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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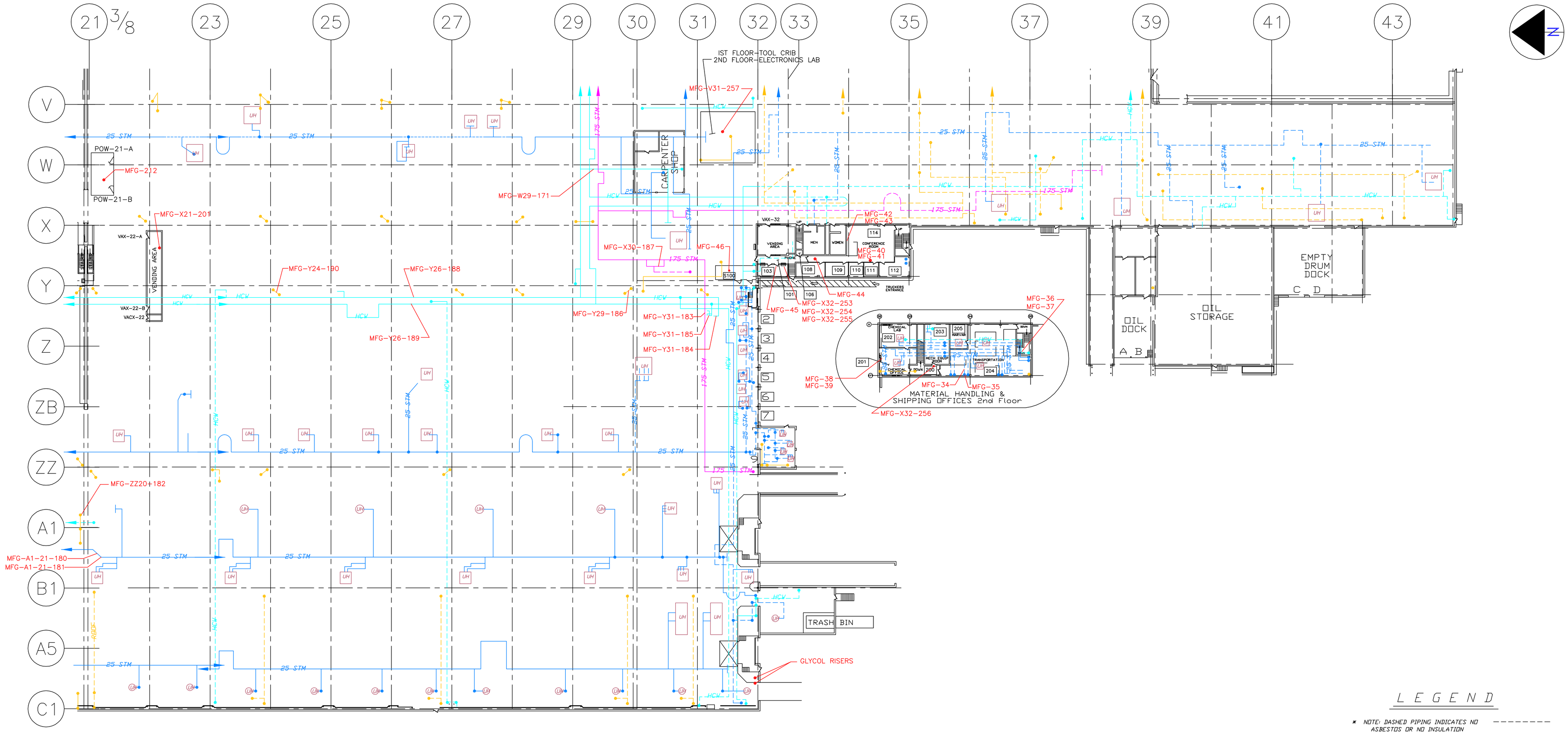
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	15 OF 25



LEGEND

NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION		FITTINGS/PIPE INSULATION
25 psi STEAM	=	25 STM ACM/ACM
175 psi STEAM	=	175 STM ACM/ACM
HOT OR COLD WATER	=	HCW ACM/ACM
WELD WATER	=	WELD ACM/ACM
ROOF DRAIN	=	ROOF ACM/ACM
FLOOR DRAIN	=	FLOOR ACM/ACM
STRUCTURAL	=	
RISERS	=	●
SAMPLE POINT	=	● BH-44
UNIT HEATER	=	UH

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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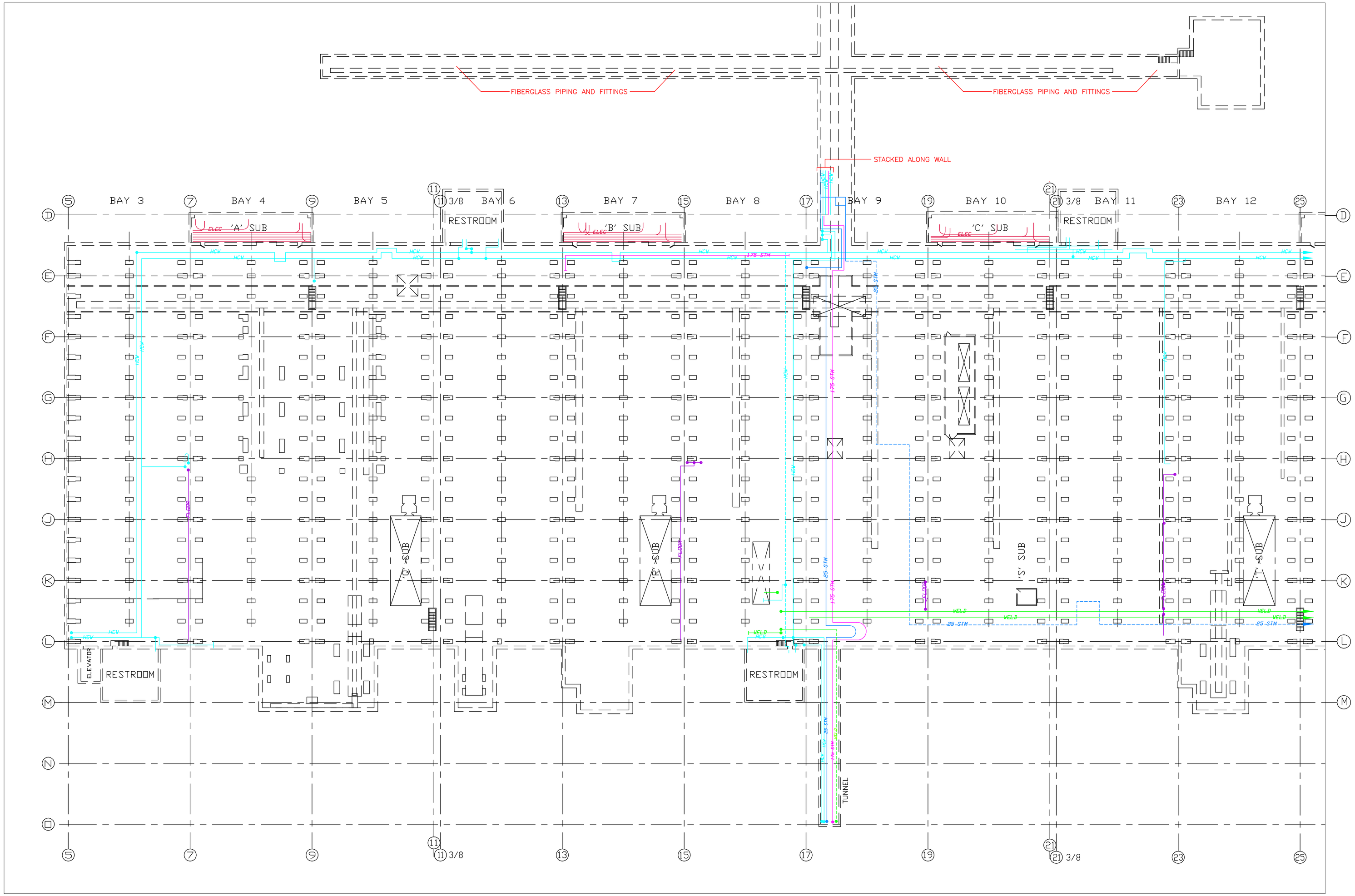
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
MAIN FLOOR PLAN

SCALE :	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	16 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTING/PIPE INSULATION
25 psi STEAM	=	25 STM — ACM/ACM
175 psi STEAM	=	175 STM — ACM/ACM
HOT OR COLD WATER	=	HCV — ACM/ACM
WELD WATER	=	WELD — ACM/ACM
STRUCTURAL	=	
FLOOR DRAIN	=	FLOOR — ACM/ACM
ELECTRICAL LINE	=	ELEC — ACM/ACM
RISERS	=	●
SAMPLE POINT	=	● MFG-00
UNIT HEATER	=	UH

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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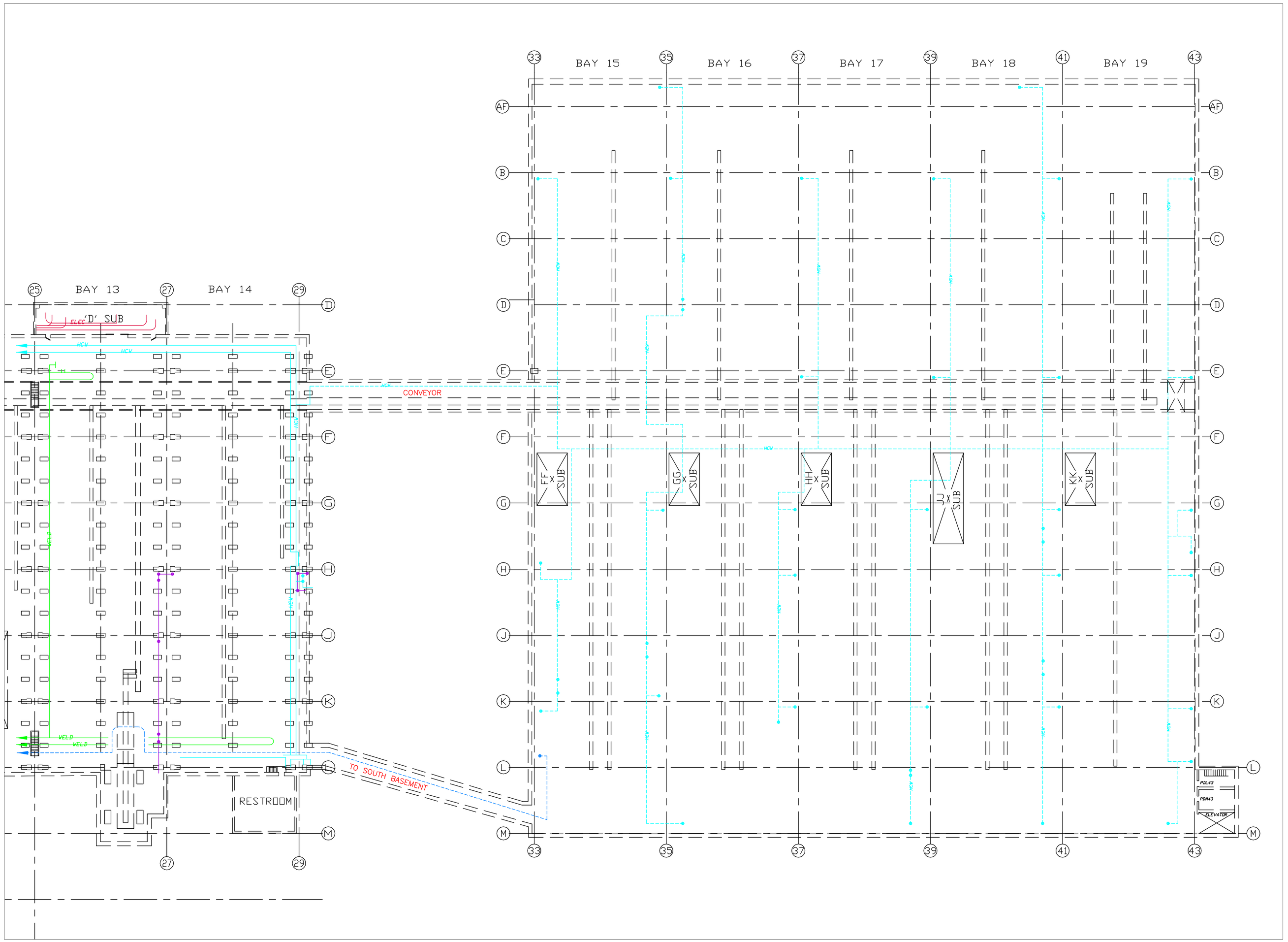
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	FEBRUARY, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
PIT LAYOUT – NORTH

SCALE :	1"=32'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	17 OF 25



LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTING/PIPE INSULATION
25 psi STEAM	=	~~25 STM~~ ACM/ACM
175 psi STEAM	=	~~175 STM~~ ACM/ACM
HOT OR COLD WATER	=	HCW ACM/ACM
WELD WATER	=	VELD ACM/ACM
STRUCTURAL	=	
FLOOR DRAIN	=	~~FLOOR~~ ACM/ACM
ELECTRICAL LINE	=	~~ELEC~~ ACM/ACM
RISERS	=	●
SAMPLE POINT	=	● MFG-00
UNIT HEATER	=	UH

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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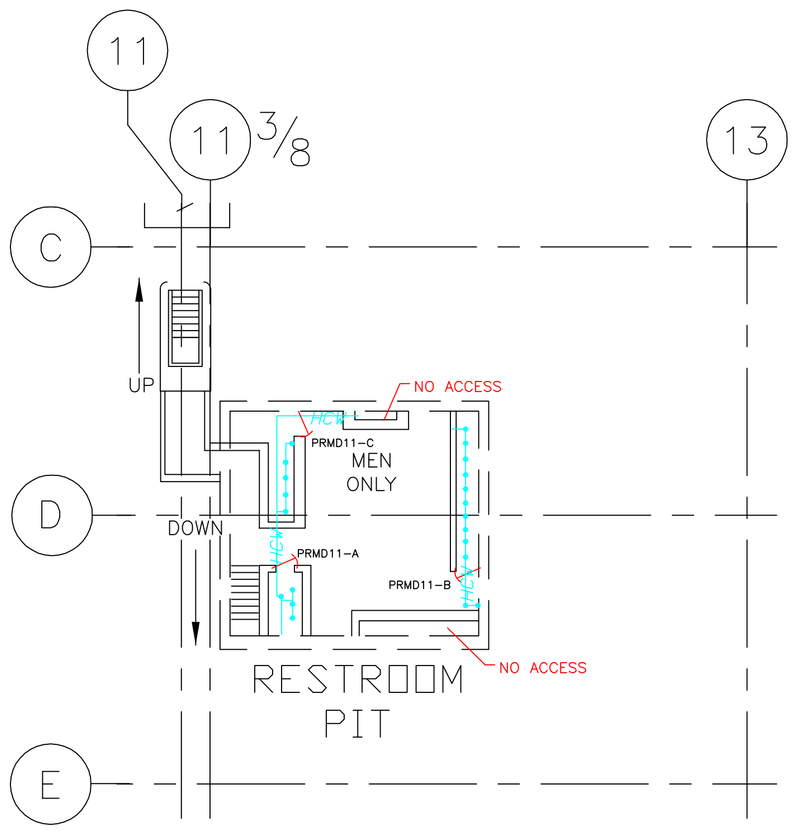
EMERALD ENVIRONMENTAL, INC.
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
PIT LAYOUT – SOUTH

SCALE :	1"=32'-0"
PROJECT NO.	99-00-03
DRAWING NO.	00-0000-00-00
SHEET	18 OF 25



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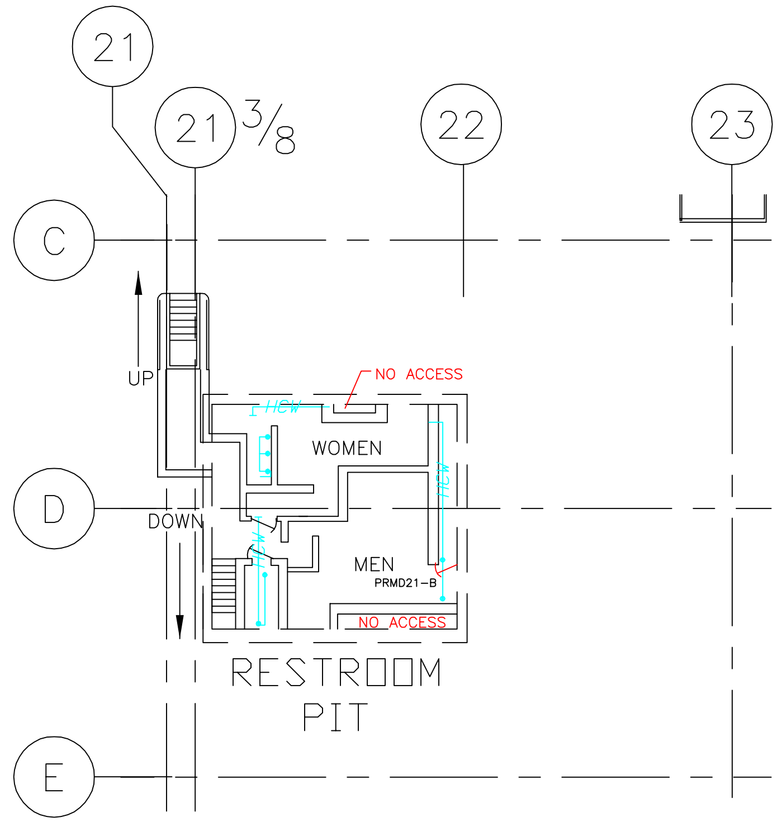

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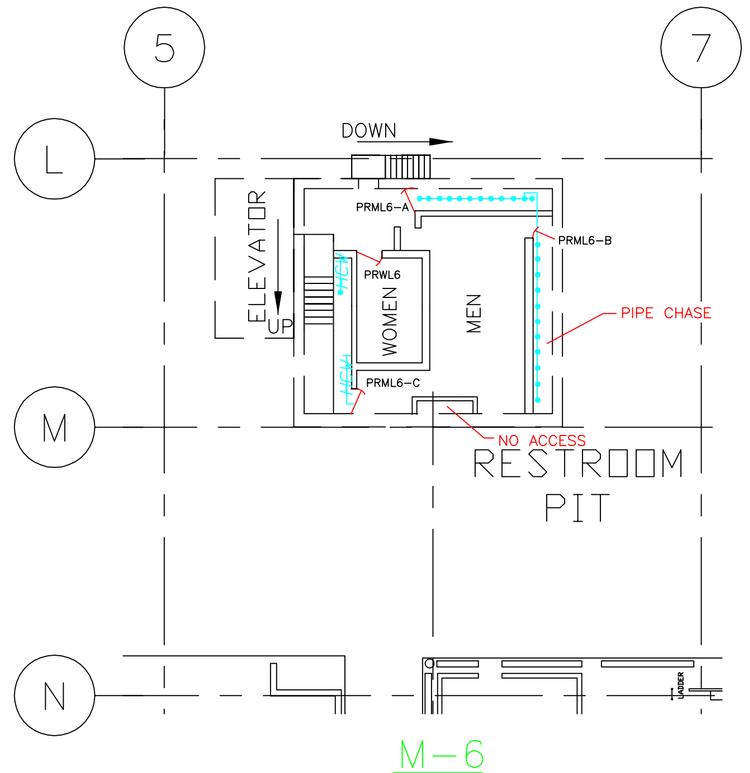

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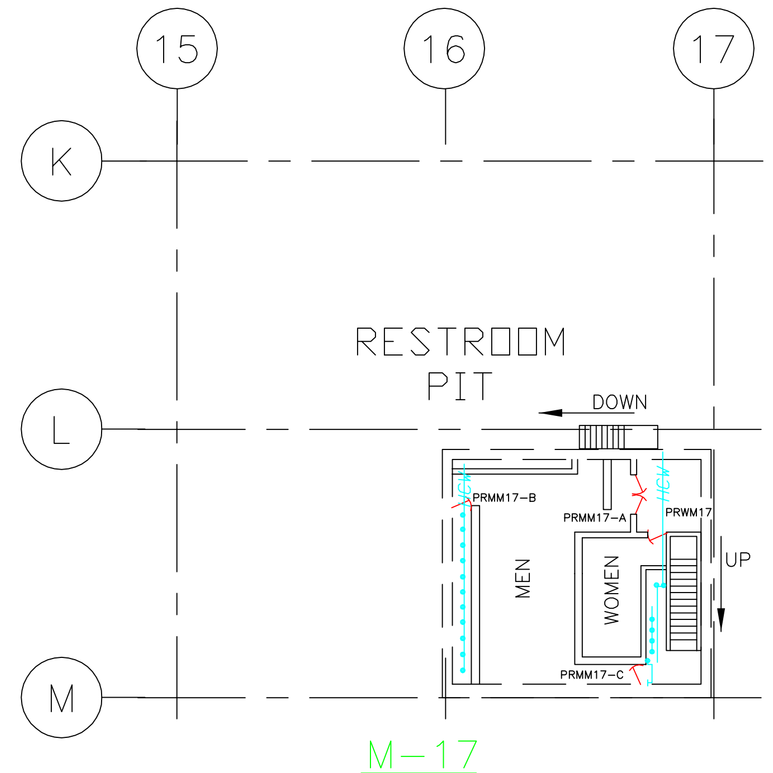

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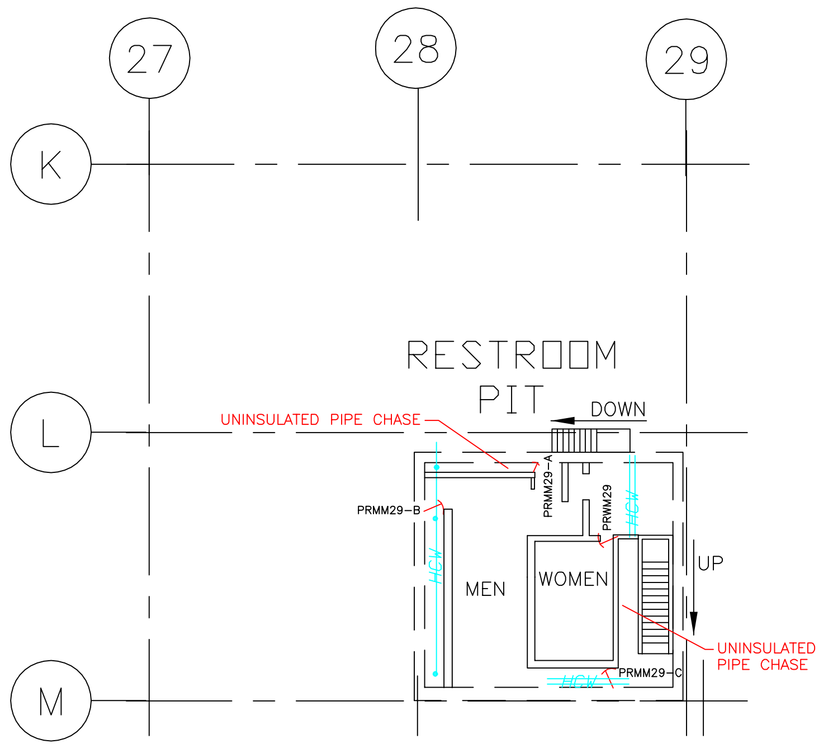

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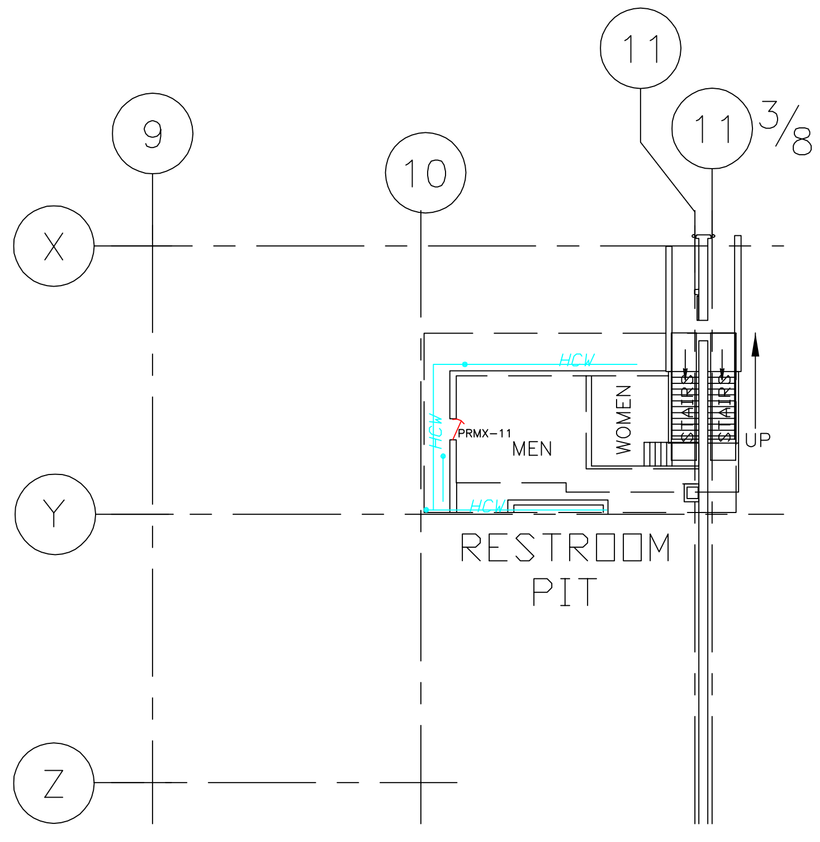

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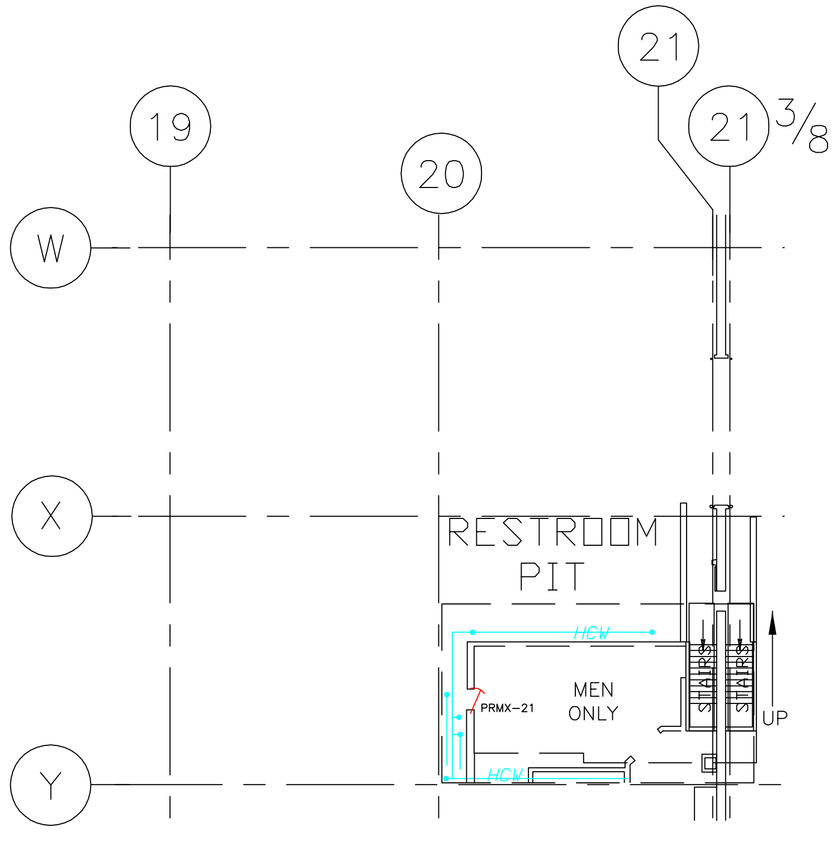

X-21

LEGEND

*NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTING/PIPE INSULATION
25 psi STEAM	=	25-STM ACM/ACM
175 psi STEAM	=	175-STM ACM/ACM
HOT&COLD WATER	=	HCW ACM/ACM
WELD WATER	=	WELD ACM/ACM
STRUCTURAL	=	
ROOF DRAIN	=	ROOF ACM/ACM
FLOOR DRAIN	=	FLOOR ACM/ACM
RISERS	=	●
SAMPLE POINT	=	● MFG-00
UNIT HEATER	=	UH

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

HAMMONTREE & ASSOCIATES, LTD.
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CANTON PITTSBURGH AKRON
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TOLL FREE: 1-800-394-8817 FAX: (330)/499-0149

R:/EMERDRAF/RESTROOMS.DWG

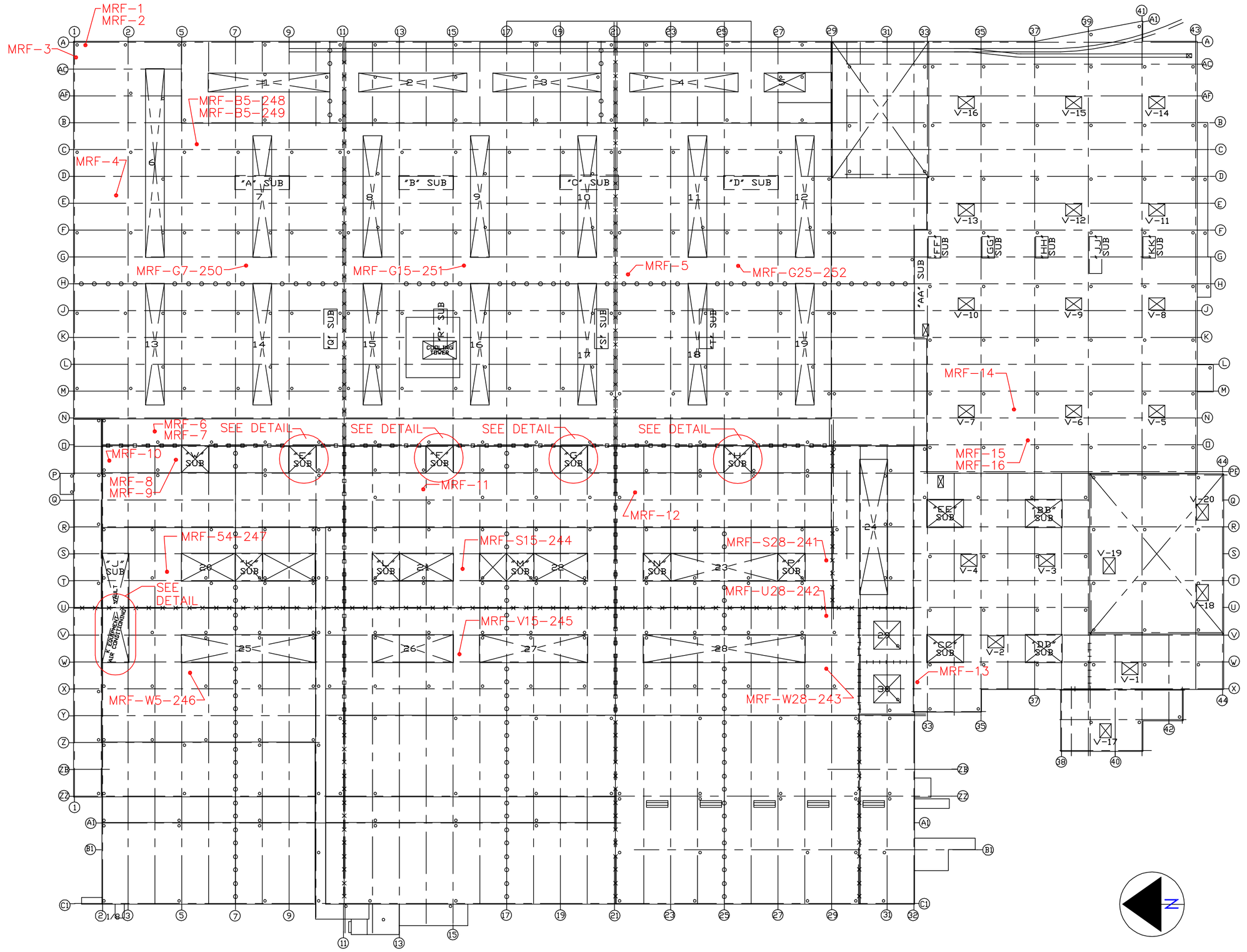
EMERALD ENVIRONMENTAL, INC.
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	WLC		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

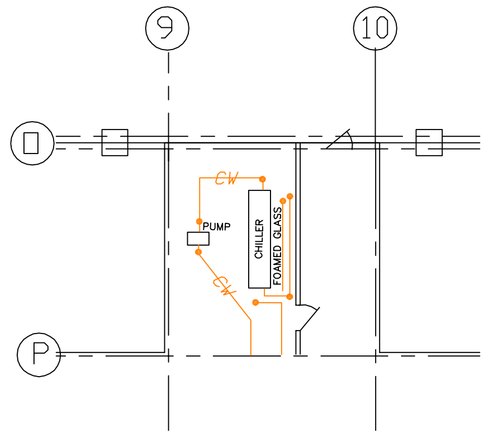
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
PLANT FLOOR RESTROOM PLAN

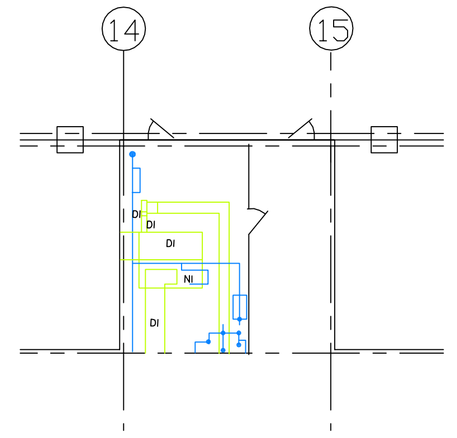
SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	19 OF 25



ROOF PLAN



SUB STATION "E"



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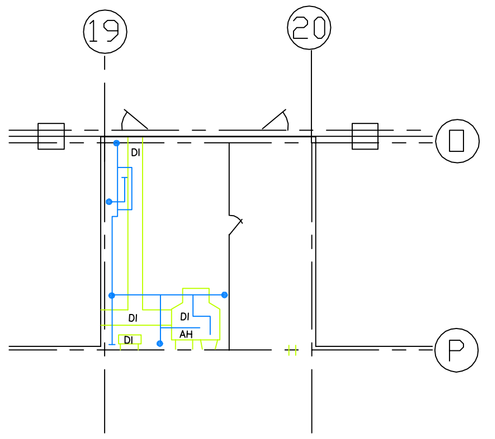
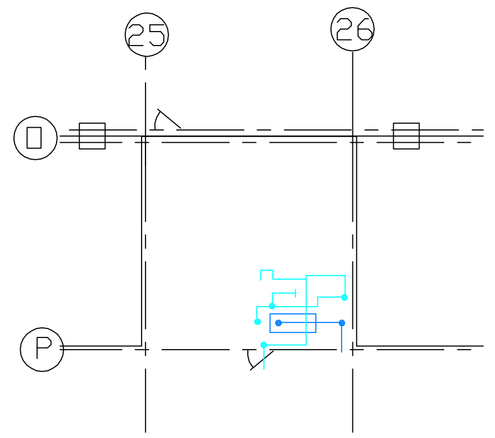


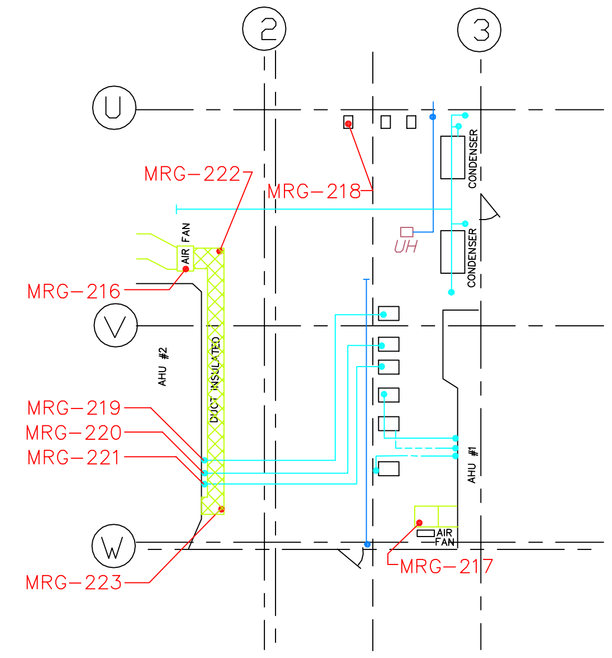
SUB STATION "G"



SUB STATION "H"

ACM ROOF NOTES

- ACM SILVER PAINT – WHERE PRESENT, TYPICALLY ON PENETRATIONS AND FLASHING
- ACM FLASHING TAR AND FLASHING FELTS AT ALL FLASHING LOCATIONS AND PENETRATIONS
- ACM EXTERIOR CAULKS INCLUDING EXPANSION JOINTS, WINDOWS, AND WINDOW SILLS



"K" EQUIPMENT/AIR CONDITIONING

LEGEND

DI = DUCT INSULATED
NI = NON-INSULATED (DUCT)
AH = AIR HANDLER
* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION ----------

		FITTINGS/PIPE INSULATION	
COOLING WATER	=	CW	ACM/NON ACM
25 psi STEAM	=	25 STM	ACM/ACM
175 psi STEAM	=	175 STM	ACM/ACM
HOT OR COLD WATER	=	HCW	ACM/ACM
DUCT	=	DUCT	
STRUCTURAL	=		
RISERS	=	●	
SAMPLE POINT	=	● BH-44	
UNIT HEATER	=	UH	
ACM DUCT INSULATION MUD	=		

NOTE: KEY COLUMN REFERANCE IS THE NORTH-EAST COLUMN

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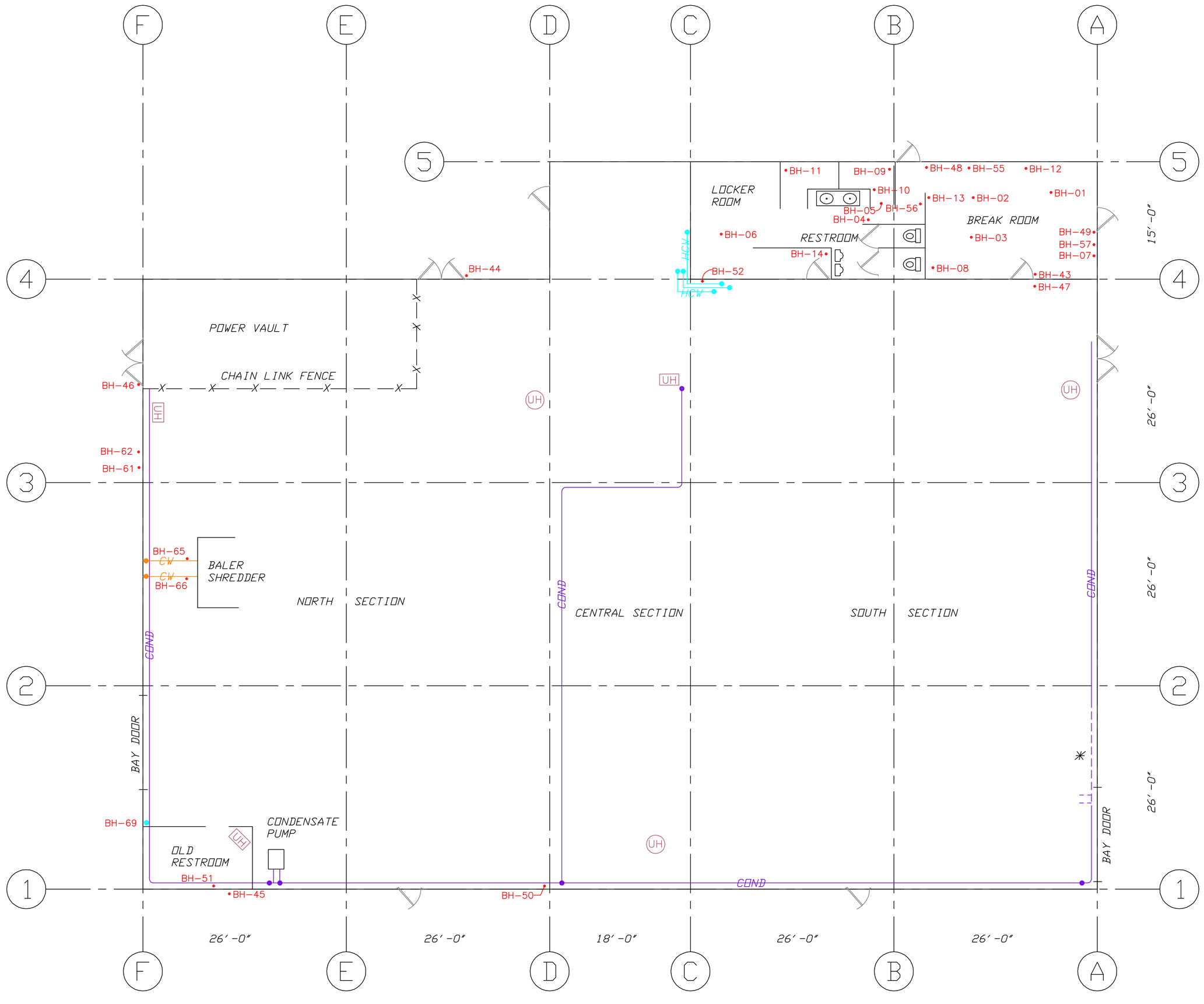
ENVIRONMENTAL INDUSTRIAL HYGIENE OCCUPATIONAL SAFETY
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
ROOF PLAN

SCALE :	1"=100'
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	20 OF 25



BALER HOUSE

FIRST FLOOR

PIPING SHOWN IS BETWEEN GROUND LEVEL AND 20 FEET ABOVE

ACM NOTES

- ACM SANDSTONE SILL CAULK – LOCATED AT ALL JOINTS ASSOCIATED WITH THE EXTERIOR SANDSTONE SILLS
- ACM EXPANSION JOINT CAULK – LOCATED AT EXTERIOR BUILDING WALL SEAMS

LEGEND

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

			FITTINGS/PIPE INSULATION
COOLING WATER	=	CW	ACM/NON ACM
25 psi STEAM	=	25 STM	ACM/ACM
175 psi STEAM	=	175 STM	ACM/ACM
HOT OR COLD WATER	=	HCW	ACM/NON ACM
CONDENSATE	=	COND	ACM/ACM
STRUCTURAL	=		
RISERS	=	●	
SAMPLE POINT	=	● BH-44	
UNIT HEATER	=	UH	

NOTE: KEY COLUMN REFERANCE IS THE SOUTH-WEST COLUMN

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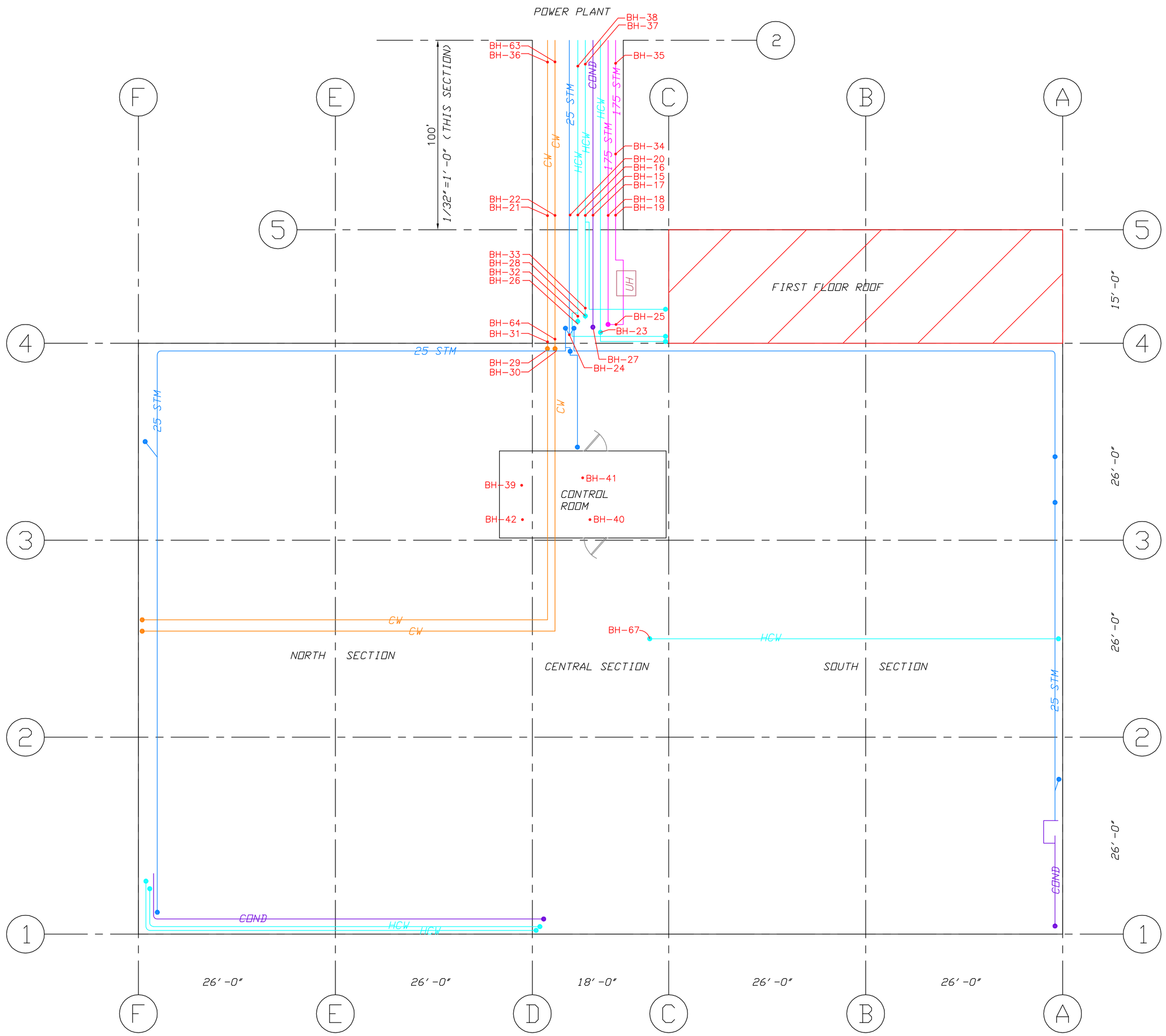
INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
BALER HOUSE 1st FLOOR PLAN

SCALE :	1/8"=1'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	21 OF 25



BALER HOUSE

SECOND FLOOR

PIPING SHOWN IS BETWEEN 20 FEET ABOVE GROUND LEVEL AND MAIN DECK

ACM NOTES

- THE FIRST FLOOR ROOF WAS NOT SAMPLED TO AVOID ROOF DAMAGE AND IS ASSUMED ACM UNTIL CORE SAMPLING AND ANALYSIS PROVE OTHERWISE.

L E G E N D

* NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION ----------

			FITTINGS/PIPE INSULATION
COOLING WATER	=	CW	ACM/NON ACM
25 psi STEAM	=	25 STM	ACM/ACM
175 psi STEAM	=	175 STM	ACM/ACM
HOT OR COLD WATER	=	HCW	ACM/NON ACM
CONDENSATE	=	COND	ACM/ACM
STRUCTURAL	=		
RISERS	=	●	
SAMPLE POINT	=	• BH-44	
UNIT HEATER	=	UH	
ACM ROOFING MATERIALS	=		

NOTE: KEY COLUMN REFERANCE IS THE SOUTH-WEST COLUMN

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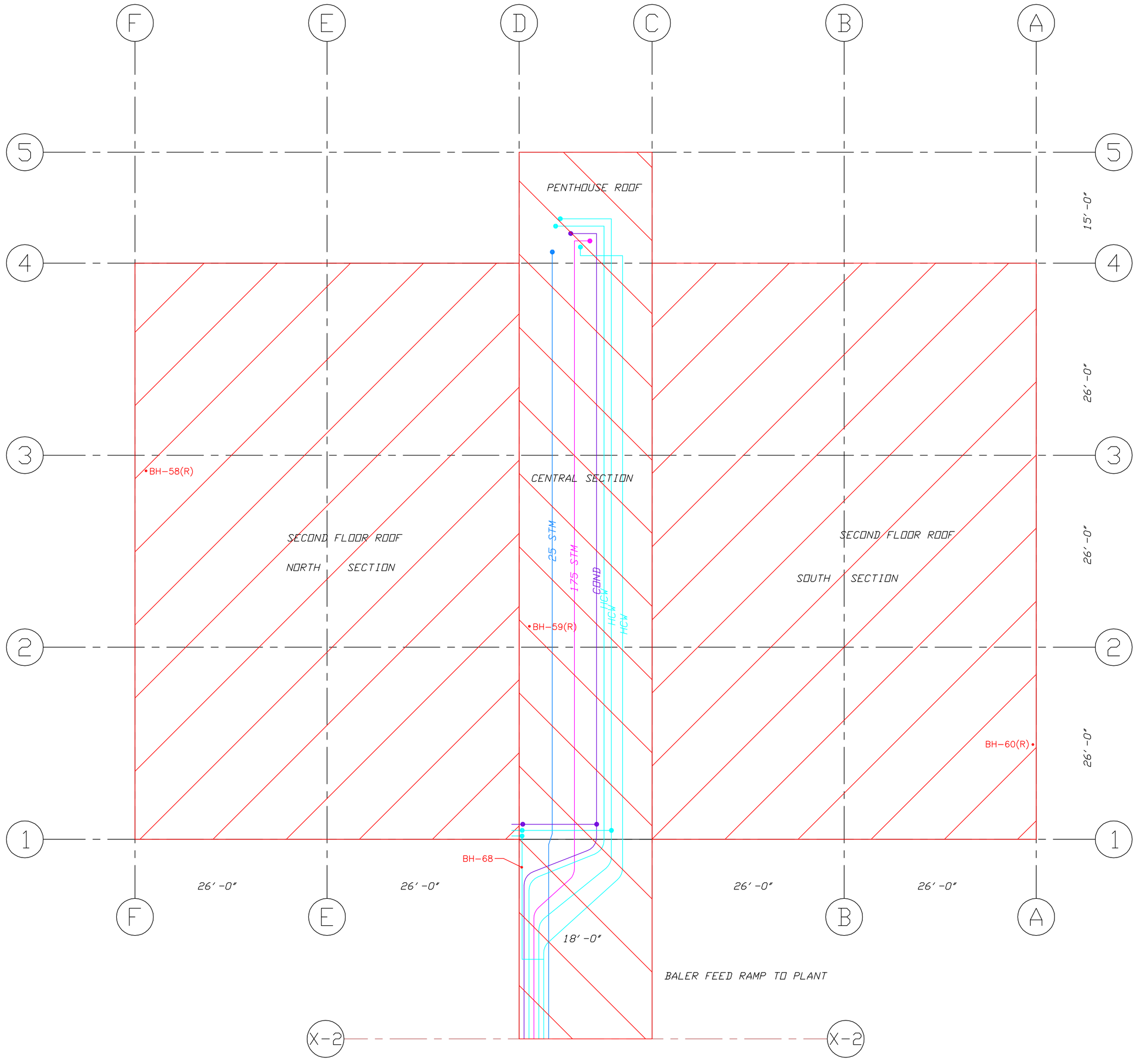
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER
DRAWN BY	PAT
PROJECT ENGR.	
PROJECT MGR.	
CHECKED BY	RWB
APPROVED	
APPROVED	
DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
BALER HOUSE 2nd FLOOR PLAN

SCALE	1/8"=1'-0" OR AS NOTED
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	22 OF 25



BALER HOUSE

BALER HOUSE

PENTHOUSE

PIPING SHOWN IS BETWEEN MAIN DECK AND PENTHOUSE ROOF

ACM NOTES

- THE NORTH AND SOUTH ROOF SECTIONS TESTED POSITIVE FOR ASBESTOS.
- THE CENTRAL SECTION SAMPLE DID NOT CONTAIN ASBESTOS, HOWEVER THIS WAS NOT A CORE SAMPLE TO SUBSTRATE. THEREFORE, THE CENTRAL ROOF SECTION IS ASSUMED ACM UNTIL CORE SAMPLING AND ANALYSIS PROVE OTHERWISE.

LEGEND

*NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

		FITTINGS/PIPE INSULATION
COOLING WATER	= CW	ACM/NON ACM
25 psi STEAM	= 25 STM	ACM/ACM
175 psi STEAM	= 175 STM	ACM/ACM
HOT OR COLD WATER	= HCW	ACM/NON ACM
CONDENSATE	= COND	ACM/ACM
STRUCTURAL	=	
RISERS	=	
SAMPLE POINT	= BH-44	
UNIT HEATER	= UH	
ACM ROOFING MATERIALS	=	

NOTE: KEY COLUMN REFERANCE IS THE SOUTH-WEST COLUMN

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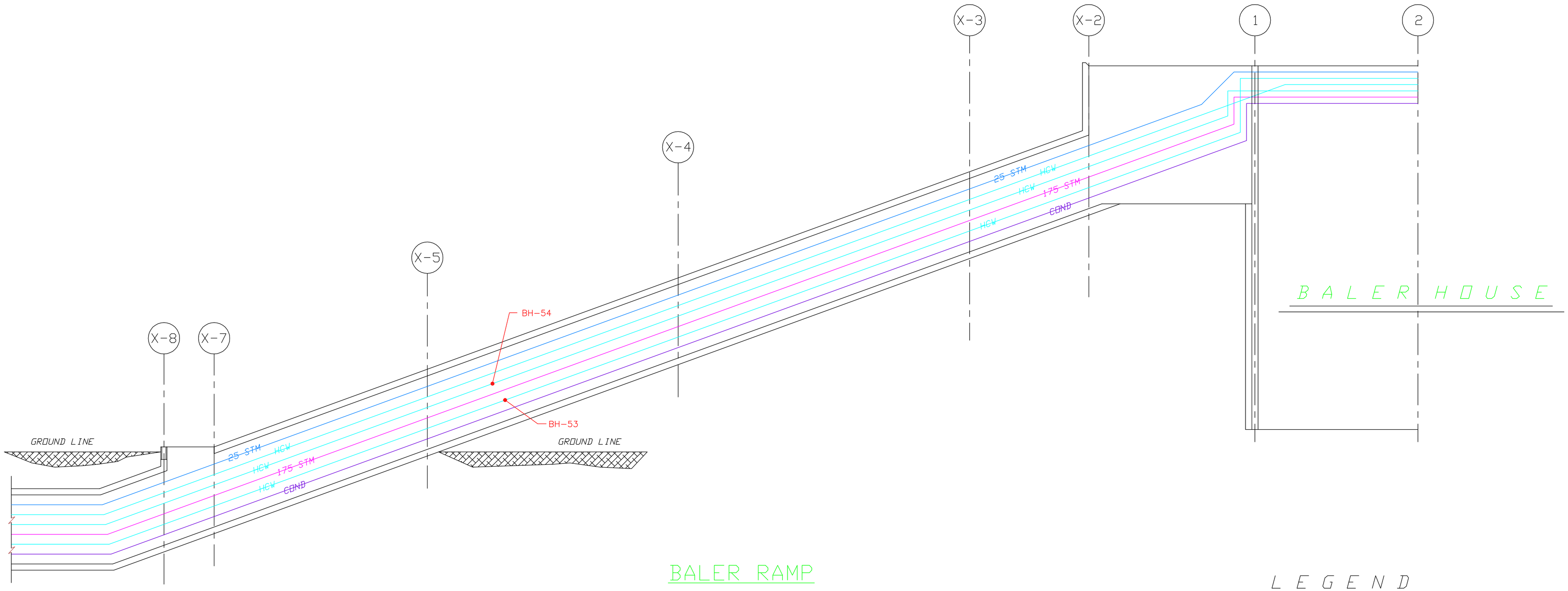
P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR	ROBERT W. BOXLER	APPROVED	
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
BALER HOUSE PENTHOUSE PLAN

SCALE :	1/8"=1'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	23 OF 25



BALER RAMP

LEGEND

*NOTE: DASHED PIPING INDICATES NO ASBESTOS OR NO INSULATION

			FITTINGS/PIPE INSULATION
COOLING WATER	=	CW	ACM/NON ACM
25 psi STEAM	=	25 STM	ACM/ACM
175 psi STEAM	=	175 STM	ACM/ACM
HOT OR COLD WATER	=	HCW	ACM/NON ACM
CONDENSATE	=	COND	ACM/ACM
STRUCTURAL	=		
RISERS	=		
SAMPLE POINT	=	BH-44	
UNIT HEATER	=	UH	

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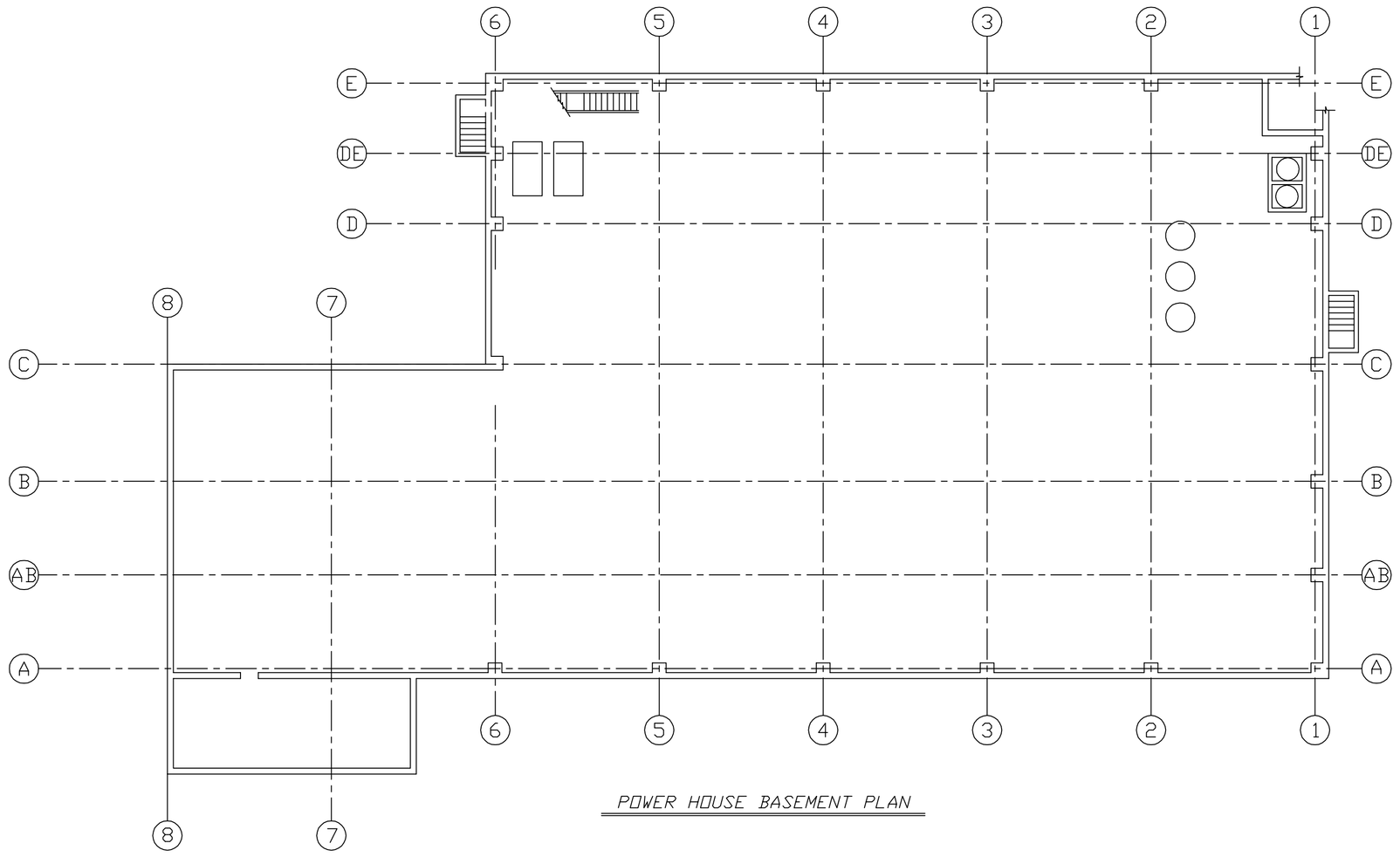
DRAWN BY	PAT		
PROJECT ENGR.		APPROVED	
PROJECT MGR.			
CHECKED BY	RWB	DATE	MARCH, 2000

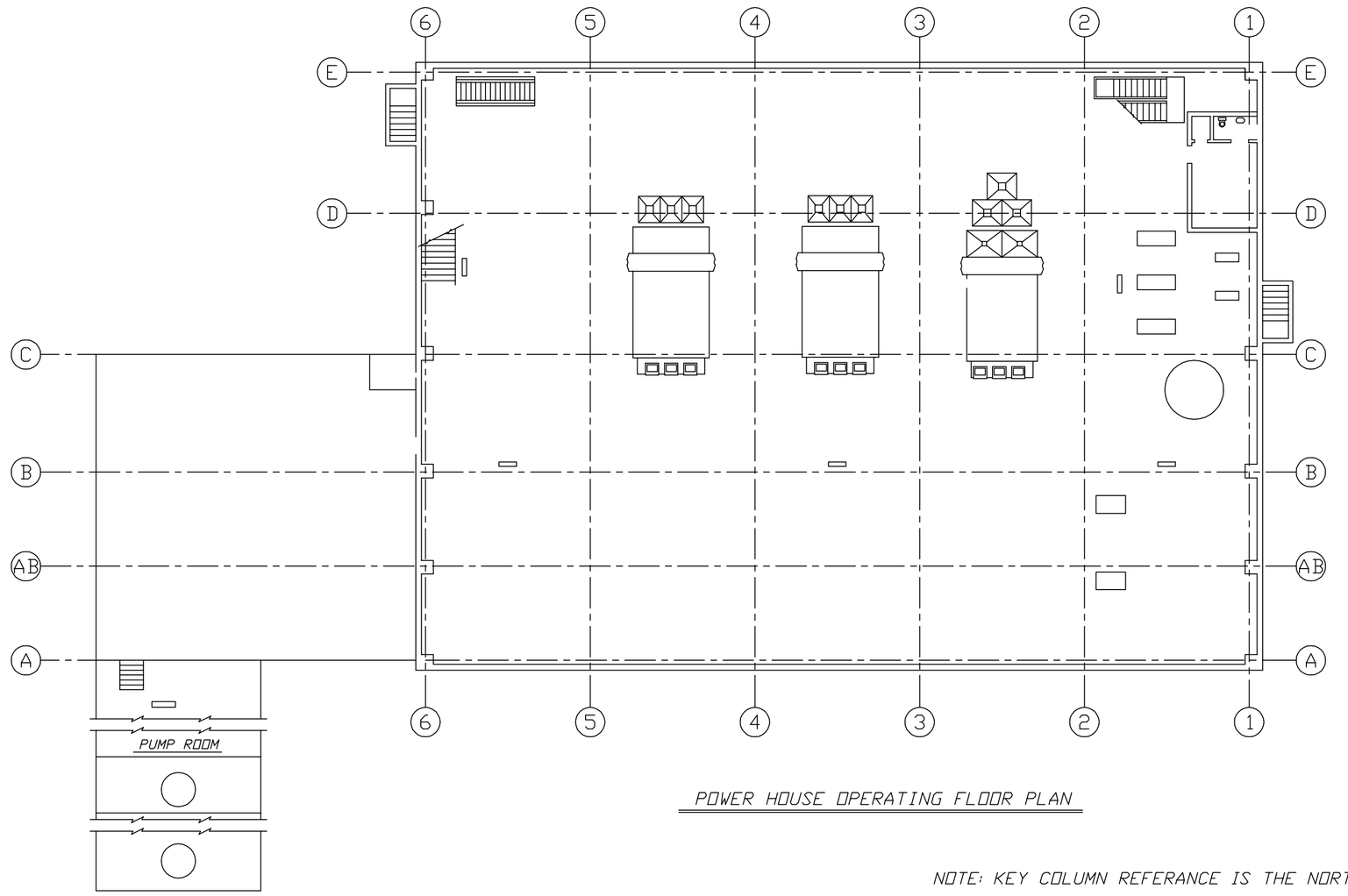
GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
BALER HOUSE ELEVATION

SCALE :	1/8"=1'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	24 OF 25

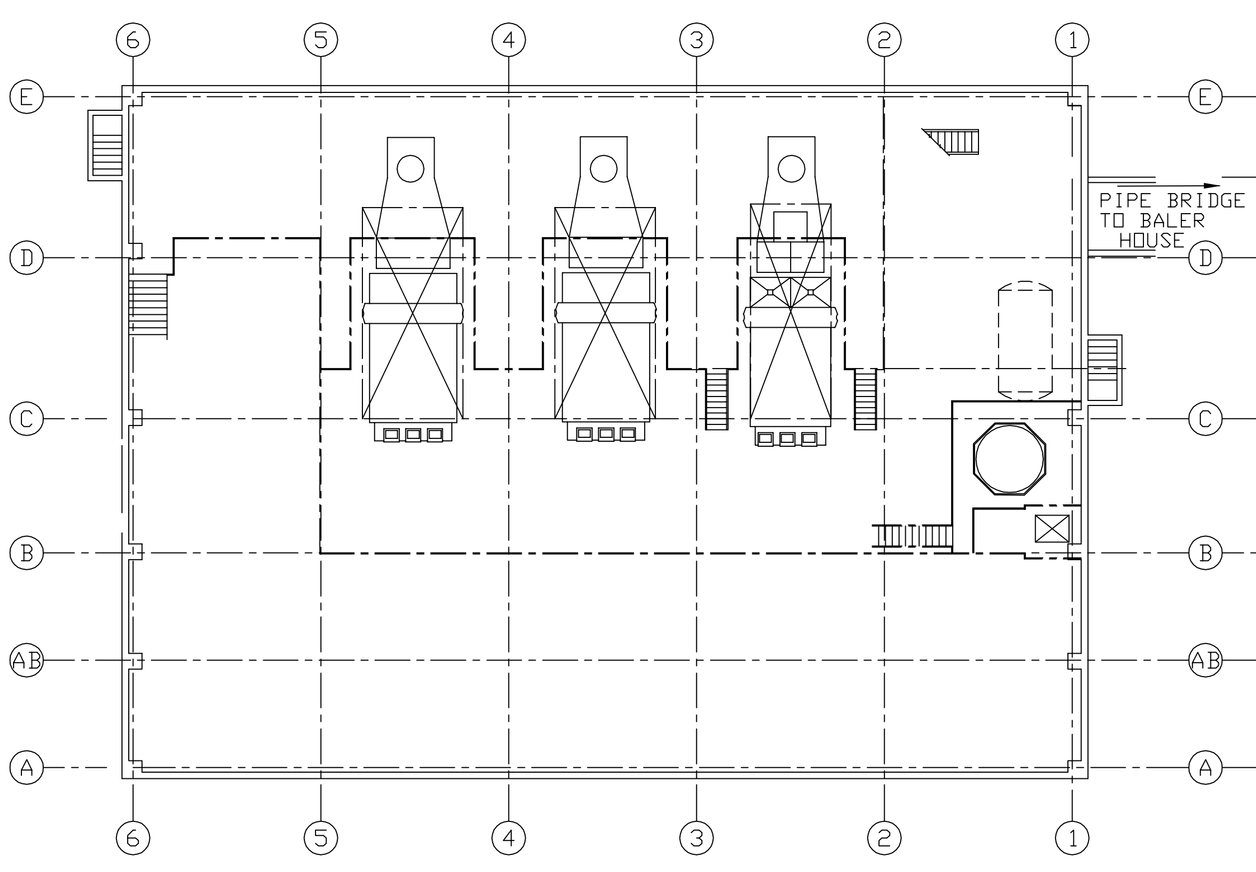


POWER HOUSE BASEMENT PLAN

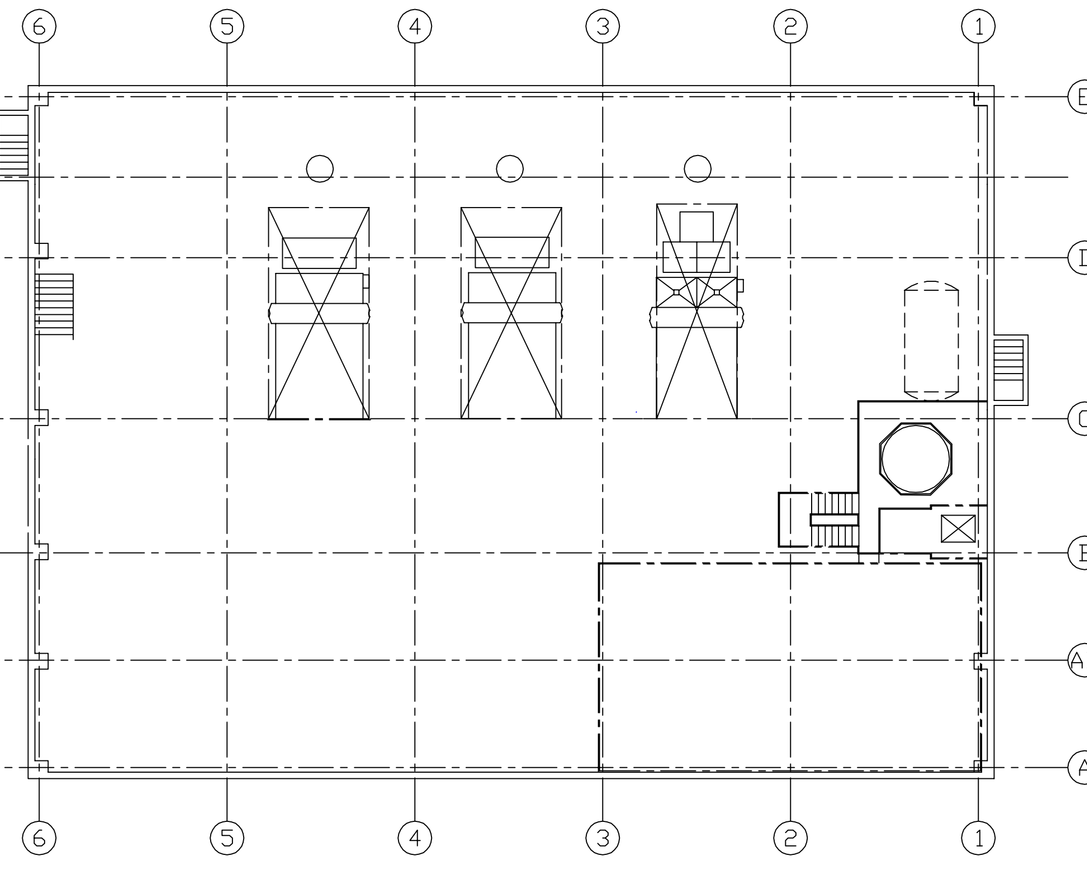


POWER HOUSE OPERATING FLOOR PLAN

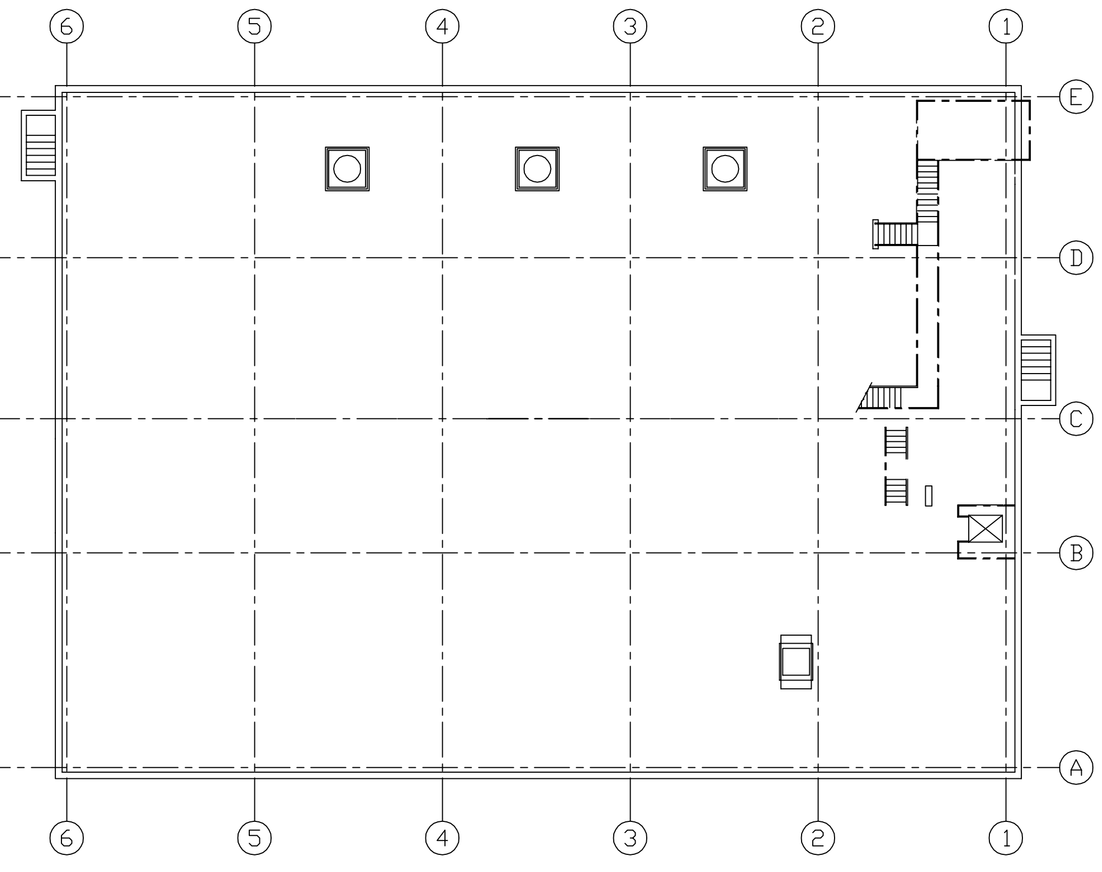
NOTE: KEY COLUMN REFERANCE IS THE NORTH-WEST COLUMN



POWER HOUSE SCALE PLATFORM LEVEL



POWER HOUSE PLAN ABOVE BOILERS



POWER HOUSE OVERHEAD BUNKER AND ROOF PLAN

HAMMONTREE & ASSOCIATES, LTD.
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R:/EMERDRAF/POWER.DWG

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P.O. BOX 1953 KENT, OHIO 44240 PH: 330-677-0785 FAX: 330-677-1567

INSPECTOR ROBERT W. BOXLER	APPROVED
DRAWN BY PAT	
PROJECT ENGR.	APPROVED
PROJECT MGR.	
CHECKED BY RWB	DATE FEBRUARY, 2000

GENERAL MOTORS CORPORATION
M.F.D. MANSFIELD PLANT
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
ASBESTOS SURVEY
POWER HOUSE

SCALE :	1"=16'-0"
PROJECT NO.	990003
DRAWING NO.	00-0000-00-00
SHEET	25 OF 25

APPENDIX F

ACBM Data and Reports

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
1	POWER PLANT	1	A	0	EXTERIOR	BIO REACTOR TANKS	TANK INSULATION			☐
2	POWER PLANT	1	A	0	EXTERIOR	BIO REACTOR TANKS	TANK INSULATION			☐
3	POWER PLANT	1	A	1		EXTERIOR	NO SUSPECT MATERIALS			☐
4	POWER PLANT	1	A	1		FLOOR	MUDDED TSI FITTING-CITY WATER	16"		☑
5	POWER PLANT	1	A	1		FLOOR	MUDDED TSI FITTING-COOLING	10"		☑
6	POWER PLANT	1	A	1		FLOOR	PIPE INSULATION-CITY WATER	16"		☑
7	POWER PLANT	1	A	1		FLOOR	PIPE INSULATION-COOLING	10"		☑
8	POWER PLANT	1	A	1		FLOOR	PIPE INSULATION-MISCELLANEOUS			☑
9	POWER PLANT	1	A	1	ALL	ALL	WINDOW GLAZING-INTERIOR			☐
10	POWER PLANT	1	A	1	ALL	ALL	WINDOW GLAZING-INTERIOR			☐
11	POWER PLANT	1	A	1	ALL	ALL	WINDOW GLAZING-INTERIOR			☐
12	POWER PLANT	1	A	2		FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
13	POWER PLANT	1	A	2		FLOOR	PIPE INSULATION-175# STEAM	12"		☑
14	POWER PLANT	1	A	2		FLOOR	PIPE INSULATION-COOLING	12"		☑
15	POWER PLANT	1	A	2		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
16	POWER PLANT	1	A	2		FLOOR	TANK INSULATION			☑
17	POWER PLANT	1	A	3		FLOOR	MUDDED TSI FITTING-COOLING	12"		☑
18	POWER PLANT	1	A	3		FLOOR	PIPE INSULATION-COOLING	12"		☑
19	POWER PLANT	1	A	3		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
20	POWER PLANT	1	A	3		FLOOR	PIPE INSULATION-VENT LINE			☐
21	POWER PLANT	1	A	4		FLOOR	MUDDED TSI FITTING-COOLING	12"		☑
22	POWER PLANT	1	A	4		FLOOR	PIPE INSULATION-COOLING	12"		☑
23	POWER PLANT	1	A	4		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☑
24	POWER PLANT	1	A	5		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑
25	POWER PLANT	1	A	5		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
26	POWER PLANT	1	A	6		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
27	POWER PLANT	1	A	6		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
28	POWER PLANT	1	A	6		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
29	POWER PLANT	1	A	6		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
30	POWER PLANT	1	A	7		COOLING TOWERS	CEMENTITIOUS PANEL			☑
31	POWER PLANT	1	A	7		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑
32	POWER PLANT	1	A	7		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
33	POWER PLANT	1	A	7		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
34	POWER PLANT	1	A	7		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☑
35	POWER PLANT	1	A	7		PUMP ROOM	PIPE INSULATION-25# STEAM	6"		☑
36	POWER PLANT	1	B	1		FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
37	POWER PLANT	1	B	1		FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
38	POWER PLANT	1	B	1		FLOOR	MUDDED TSI FITTING-CITY WATER	6"		☑
39	POWER PLANT	1	B	1		FLOOR	MUDDED TSI FITTING-CONDENSATE	10"		☑
40	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-175# STEAM	6"		☑
41	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-25# STEAM	8"		☑
42	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
43	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-CITY WATER	6"		☑
44	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-CONDENSATE	10"		☑
45	POWER PLANT	1	B	1		FLOOR	PIPE INSULATION-MISCELLANEOUS	4"		☑
46	POWER PLANT	1	B	1		FLOOR	TANK INSULATION			☑
47	POWER PLANT	1	B	2		FLOOR	BOILER INSULATION			☑
48	POWER PLANT	1	B	2		FLOOR	FIRE BRICK			☐
49	POWER PLANT	1	B	2		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
50	POWER PLANT	1	B	2		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
51	POWER PLANT	1	B	2		FLOOR	REFRACTORY MORTAR			☐
52	POWER PLANT	1	B	2		FLOOR	REFRACTORY MORTAR			☐

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
53	POWER PLANT	1	B	2		FLOOR	STOKER MUD			☐
54	POWER PLANT	1	B	3		FLOOR	BOILER INSULATION			☑
55	POWER PLANT	1	B	3		FLOOR	FIRE BRICK			☐
56	POWER PLANT	1	B	3		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
57	POWER PLANT	1	B	3		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
58	POWER PLANT	1	B	3		FLOOR	REFRACTORY MORTAR			☐
59	POWER PLANT	1	B	3		FLOOR	STOKER MUD			☐
60	POWER PLANT	1	B	4		FLOOR	BOILER INSULATION			☑
61	POWER PLANT	1	B	4		FLOOR	FIRE BRICK			☐
62	POWER PLANT	1	B	4		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
63	POWER PLANT	1	B	4		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
64	POWER PLANT	1	B	4		FLOOR	REFRACTORY MORTAR			☐
65	POWER PLANT	1	B	4		FLOOR	STOKER MUD			☐
66	POWER PLANT	1	B	5		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
67	POWER PLANT	1	B	5		FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
68	POWER PLANT	1	B	5		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
69	POWER PLANT	1	B	5		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
70	POWER PLANT	1	B	6		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑
71	POWER PLANT	1	B	6		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
72	POWER PLANT	1	B	6		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
73	POWER PLANT	1	B	6		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
74	POWER PLANT	1	B	6	PH102	BREAKROOM	BASEBOARD MASTIC		WHITE	☐
75	POWER PLANT	1	B	6	PH102	BREAKROOM	DRYWALL			☐
76	POWER PLANT	1	B	6	PH102	BREAKROOM	DRYWALL			☐
77	POWER PLANT	1	B	6	PH102	BREAKROOM	DRYWALL			☐
78	POWER PLANT	1	B	6	PH102	BREAKROOM	FLOOR TILE	12" x 12"	WHITE	☐

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
79	POWER PLANT	1	B	6	PH102	BREAKROOM	FLOOR TILE MASTIC		WHITE	☐
80	POWER PLANT	1	B	6	PH102	BREAKROOM	PANEL MASTIC			☐
81	POWER PLANT	1	B	7		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑
82	POWER PLANT	1	B	7		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
83	POWER PLANT	1	B	7		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
84	POWER PLANT	1	B	7		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
85	POWER PLANT	1	C	0		ASH SILO	MUDDED TSI FITTING-175# STEAM	6"		☑
86	POWER PLANT	1	C	0		ASH SILO	MUDDED TSI FITTING-25# STEAM	6"		☑
87	POWER PLANT	1	C	0		ASH SILO	MUDDED TSI FITTING-CITY WATER	6"		☑
88	POWER PLANT	1	C	0		ASH SILO	MUDDED TSI FITTING-CONDENSATE	4"		☑
89	POWER PLANT	1	C	0		ASH SILO	PIPE INSULATION-175# STEAM	6"		☑
90	POWER PLANT	1	C	0		ASH SILO	PIPE INSULATION-25# STEAM	6"		☑
91	POWER PLANT	1	C	0		ASH SILO	PIPE INSULATION-CITY WATER	6"		☑
92	POWER PLANT	1	C	0		ASH SILO	PIPE INSULATION-CONDENSATE	4"		☑
93	POWER PLANT	1	C	1		FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
94	POWER PLANT	1	C	1		FLOOR	MUDDED TSI FITTING-175# STEAM	8"		☑
95	POWER PLANT	1	C	1		FLOOR	MUDDED TSI FITTING-25# STEAM	12"		☑
96	POWER PLANT	1	C	1		FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
97	POWER PLANT	1	C	1		FLOOR	MUDDED TSI FITTING-CONDENSATE	8"		☑
98	POWER PLANT	1	C	1		FLOOR	PIPE INSULATION-175# STEAM	8"		☑
99	POWER PLANT	1	C	1		FLOOR	PIPE INSULATION-25# STEAM	12"		☑
100	POWER PLANT	1	C	1		FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
101	POWER PLANT	1	C	1		FLOOR	PIPE INSULATION-CITY WATER	8"		☑
102	POWER PLANT	1	C	1		FLOOR	PIPE INSULATION-CONDENSATE	8"		☑
103	POWER PLANT	1	C	2		FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
104	POWER PLANT	1	C	2		FLOOR	MUDDED TSI FITTING-COOLING	4"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
105	POWER PLANT	1	C		2	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
106	POWER PLANT	1	C		2	FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
107	POWER PLANT	1	C		2	FLOOR	PIPE INSULATION-CITY WATER	4"		☑
108	POWER PLANT	1	C		2	FLOOR	PIPE INSULATION-COOLING	4"		☑
109	POWER PLANT	1	C		3	FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
110	POWER PLANT	1	C		3	FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
111	POWER PLANT	1	C		3	FLOOR	MUDDED TSI FITTING-COOLING	4"		☑
112	POWER PLANT	1	C		3	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
113	POWER PLANT	1	C		3	FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
114	POWER PLANT	1	C		3	FLOOR	PIPE INSULATION-COOLING	4"		☑
115	POWER PLANT	1	C		4	FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
116	POWER PLANT	1	C		4	FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
117	POWER PLANT	1	C		4	FLOOR	MUDDED TSI FITTING-COOLING	4"		☑
118	POWER PLANT	1	C		4	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
119	POWER PLANT	1	C		4	FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
120	POWER PLANT	1	C		4	FLOOR	PIPE INSULATION-COOLING	4"		☑
121	POWER PLANT	1	C		5	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
122	POWER PLANT	1	C		5	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
123	POWER PLANT	1	D		1	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
124	POWER PLANT	1	D		1	FLOOR	MUDDED TSI FITTING-CITY WATER	12"		☑
125	POWER PLANT	1	D		1	FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
126	POWER PLANT	1	D		1	FLOOR	MUDDED TSI FITTING-HOT WATER	10"		☑
127	POWER PLANT	1	D		1	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
128	POWER PLANT	1	D		1	FLOOR	PIPE INSULATION-CITY WATER	12"		☑
129	POWER PLANT	1	D		1	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
130	POWER PLANT	1	D		1	FLOOR	PIPE INSULATION-HOT WATER			☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
131	POWER PLANT	1	D	1		FLOOR	PIPE INSULATION-HOT WATER	10"		☑
132	POWER PLANT	1	D	1	PH103	ENGINEER OFFICE	NO SUSPECT MATERIALS			☐
133	POWER PLANT	1	D	1	PHRC	ENG CLOSET	NO SUSPECT MATERIALS			☐
134	POWER PLANT	1	D	1	PHRR	ENG RESTROOM	NO SUSPECT MATERIALS			☐
135	POWER PLANT	1	D	2		FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
136	POWER PLANT	1	D	2		FLOOR	MUDDED TSI FITTING-175# STEAM	16"		☑
137	POWER PLANT	1	D	2		FLOOR	MUDDED TSI FITTING-25# STEAM	24"		☑
138	POWER PLANT	1	D	2		FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
139	POWER PLANT	1	D	2		FLOOR	MUDDED TSI FITTING-COOLING	4"		☑
140	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-175# STEAM	16"		☑
141	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-25# STEAM	24"		☑
142	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
143	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
144	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
145	POWER PLANT	1	D	2		FLOOR	PIPE INSULATION-COOLING	4"		☑
146	POWER PLANT	1	D	3		FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
147	POWER PLANT	1	D	3		FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
148	POWER PLANT	1	D	3		FLOOR	MUDDED TSI FITTING-175# STEAM	16"		☑
149	POWER PLANT	1	D	3		FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
150	POWER PLANT	1	D	3		FLOOR	MUDDED TSI FITTING-COOLING	4"		☑
151	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-175# STEAM	16"		☑
152	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-25# STEAM	24"		☑
153	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
154	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
155	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-CITY WATER	4"		☑
156	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-CONDENSATE	6"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
157	POWER PLANT	1	D	3		FLOOR	PIPE INSULATION-COOLING	4"		☑
158	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
159	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING- BOILER FEED	8"		☑
160	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING-175# STEAM			☑
161	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING-25# STEAM	24"		☑
162	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
163	POWER PLANT	1	D	4		FLOOR	MUDDED TSI FITTING-COOLING	4"		☑
164	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-175# STEAM	16"		☑
165	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-25# STEAM	24"		☑
166	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
167	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-BOILER FEED	8"		☑
168	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-CITY WATER	4"		☑
169	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
170	POWER PLANT	1	D	4		FLOOR	PIPE INSULATION-COOLING	4"		☑
171	POWER PLANT	1	D	5		FLOOR	MUDDED TSI FITTING-25# STEAM	16"		☑
172	POWER PLANT	1	D	5		FLOOR	MUDDED TSI FITTING-CITY WATER	4"		☑
173	POWER PLANT	1	D	5		FLOOR	PIPE INSULATION-175# STEAM	16"		☑
174	POWER PLANT	1	D	5		FLOOR	PIPE INSULATION-CITY WATER	4"		☑
175	POWER PLANT	1	E	5	PH101	WATER TREATMENT	BASEBOARD MASTIC		BROWN	☐
176	POWER PLANT	1	E	5	PH101	WATER TREATMENT	FIBERGLASS SEALANT			☐
177	POWER PLANT	1	E	5	PH101	WATER TREATMENT	SKIM COAT			☐
178	POWER PLANT	1	E	5	PH101	WATER TREATMENT	SKIM COAT			☐
179	POWER PLANT	1	E	5	WT101	STAIR	NO SUSPECT MATERIALS			☐
180	POWER PLANT	2	A	1		FLOOR	MUDDED TSI FITTING- MISCELLANEOUS	18"		☑
181	POWER PLANT	2	A	1		FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
182	POWER PLANT	2	A	1		FLOOR	MUDDED TSI FITTING-COOLING	10"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
183	POWER PLANT	2	A	1		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
184	POWER PLANT	2	A	1		FLOOR	PIPE INSULATION-COOLING	10"		☑
185	POWER PLANT	2	A	1		FLOOR	PIPE INSULATION-MISCELLANEOUS	18"		☑
186	POWER PLANT	2	A	2		FLOOR	NO SUSPECT MATERIALS			☐
187	POWER PLANT	2	A	3		FLOOR	NO SUSPECT MATERIALS			☐
188	POWER PLANT	2	A	4		FLOOR	NO SUSPECT MATERIALS			☐
189	POWER PLANT	2	A	5		FLOOR	NO SUSPECT MATERIALS			☐
190	POWER PLANT	2	B	1		FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
191	POWER PLANT	2	B	1		FLOOR	MUDDED TSI FITTING-CONDENSATE	10"		☑
192	POWER PLANT	2	B	1		FLOOR	MUDDED TSI FITTING-COOLING	10"		☑
193	POWER PLANT	2	B	1		FLOOR	PIPE INSULATION-175# STEAM	6"		☑
194	POWER PLANT	2	B	1		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
195	POWER PLANT	2	B	1		FLOOR	PIPE INSULATION-CITY WATER	6"		☑
196	POWER PLANT	2	B	1		FLOOR	PIPE INSULATION-CONDENSATE	10"		☑
197	POWER PLANT	2	B	1		FLOOR	PIPE INSULATION-COOLING	10"		☑
198	POWER PLANT	2	B	2		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
199	POWER PLANT	2	B	2		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
200	POWER PLANT	2	B	3		FLOOR	NO SUSPECT MATERIALS			☐
201	POWER PLANT	2	B	4		FLOOR	NO SUSPECT MATERIALS			☐
202	POWER PLANT	2	B	5		FLOOR	NO SUSPECT MATERIALS			☐
203	POWER PLANT	2	C	1		FLOOR	MUDDED TSI FITTING- MISCELLANEOUS	8"		☑
204	POWER PLANT	2	C	1		FLOOR	MUDDED TSI FITTING-CONDENSATE	10"		☑
205	POWER PLANT	2	C	1		FLOOR	MUDDED TSI FITTING-COOLING	6"		☑
206	POWER PLANT	2	C	1		FLOOR	PIPE INSULATION-25# STEAM	16"		☑
207	POWER PLANT	2	C	1		FLOOR	PIPE INSULATION-CONDENSATE	10"		☑
208	POWER PLANT	2	C	1		FLOOR	PIPE INSULATION-COOLING	6"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
209	POWER PLANT	2	C		1	FLOOR	PIPE INSULATION-MISCELLANEOUS	8"		☑
210	POWER PLANT	2	C		1	FLOOR	TANK INSULATION			☑
211	POWER PLANT	2	C		2	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
212	POWER PLANT	2	C		2	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
213	POWER PLANT	2	C		2	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
214	POWER PLANT	2	C		2	FLOOR	PIPE INSULATION-CITY WATER	4"		☑
215	POWER PLANT	2	C		2	FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
216	POWER PLANT	2	C		3	FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
217	POWER PLANT	2	C		3	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
218	POWER PLANT	2	C		3	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
219	POWER PLANT	2	C		3	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
220	POWER PLANT	2	C		4	FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
221	POWER PLANT	2	C		4	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
222	POWER PLANT	2	C		4	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
223	POWER PLANT	2	C		4	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
224	POWER PLANT	2	C		5	FLOOR	PIPE INSULATION-25# STEAM	10"		☑
225	POWER PLANT	2	C		5	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
226	POWER PLANT	2	D		1	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
227	POWER PLANT	2	D		1	FLOOR	MUDDED TSI FITTING-CITY WATER	12"		☑
228	POWER PLANT	2	D		1	FLOOR	MUDDED TSI FITTING-CONDENSATE	10"		☑
229	POWER PLANT	2	D		1	FLOOR	MUDDED TSI FITTING-COOLING	6"		☑
230	POWER PLANT	2	D		1	FLOOR	MUDDED TSI FITTING-HOT WATER	10"		☑
231	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
232	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-25# STEAM	28"		☑
233	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-CITY WATER	12"		☑
234	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-CONDENSATE	10"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
235	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-COOLING	6"		☑
236	POWER PLANT	2	D		1	FLOOR	PIPE INSULATION-HOT WATER	10"		☑
237	POWER PLANT	2	D		2	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
238	POWER PLANT	2	D		2	FLOOR	MUDDED TSI FITTING-175# STEAM	16"		☑
239	POWER PLANT	2	D		2	FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
240	POWER PLANT	2	D		2	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
241	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-175# STEAM	16"		☑
242	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-25# STEAM	10"		☑
243	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
244	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
245	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-MISCELLANEOUS			☑
246	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
247	POWER PLANT	2	D		2	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
248	POWER PLANT	2	D		3	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
249	POWER PLANT	2	D		3	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
250	POWER PLANT	2	D		3	FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
251	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
252	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-25# STEAM	10"		☑
253	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
254	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-MISCELLANEOUS			☑
255	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
256	POWER PLANT	2	D		3	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
257	POWER PLANT	2	D		4	FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
258	POWER PLANT	2	D		4	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
259	POWER PLANT	2	D		4	FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
260	POWER PLANT	2	D		4	FLOOR	PIPE INSULATION-175# STEAM	12"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
261	POWER PLANT	2	D	4		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
262	POWER PLANT	2	D	4		FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
263	POWER PLANT	2	D	4		FLOOR	PIPE INSULATION-CITY WATER	4"		☑
264	POWER PLANT	2	D	4		FLOOR	PIPE INSULATION-MISCELLANEOUS			☑
265	POWER PLANT	2	D	4		FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
266	POWER PLANT	2	D	5		FLOOR	MUDDED TSI FITTING-175# STEAM	16"		☑
267	POWER PLANT	2	D	5		FLOOR	PIPE INSULATION-175# STEAM	16"		☑
268	POWER PLANT	2	D	5		FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
269	POWER PLANT	2	E	5	PH201	LAB	BASEBOARD MASTIC		BROWN	☐
270	POWER PLANT	2	E	5	PH201	LAB	CEILING TILE	2' x 2'	ROUGH	☐
271	POWER PLANT	2	E	5	PH201	LAB	DRYWALL			☐
272	POWER PLANT	2	E	5	PH201	LAB	DRYWALL JOINT COMPOUND			☐
273	POWER PLANT	2	E	5	WT201	STAIR	NO SUSPECT MATERIALS			☐
274	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	DRYWALL			☐
275	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	DRYWALL JOINT COMPOUND			☐
276	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	DUCT INSULATION			☐
277	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	DUCT INSULATION			☐
278	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	DUCT INSULATION			☐
279	POWER PLANT	2	E	5	WT204	OIL SEPARATOR ROOM	FIBERGLASS SEALANT			☐
280	POWER PLANT	2	E	5	WT204A	WATER TREATMENT OFFIC	BASEBOARD MASTIC		YELLOW	☐
281	POWER PLANT	2	E	5	WT204A	WATER TREATMENT OFFIC	CEILING TILE	2' x 2'		☐
282	POWER PLANT	2	E	5	WT204A	WATER TREATMENT OFFIC	CEILING TILE	2' x 2'		☐
283	POWER PLANT	2	E	5	WT204A	WATER TREATMENT OFFIC	DRYWALL			☐
284	POWER PLANT	2	E	5	WT204A	WATER TREATMENT OFFIC	DRYWALL JOINT COMPOUND			☐
285	POWER PLANT	3	A	1		POWER VAULT	VIBRATION COLLAR			☐
286	POWER PLANT	3	B	1		FLOOR	MUDDED TSI FITTING-CONDENSATE	10"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
287	POWER PLANT	3	B	1		FLOOR	PIPE INSULATION-175# STEAM	6"		☑
288	POWER PLANT	3	B	1		FLOOR	PIPE INSULATION-25# STEAM	16"		☑
289	POWER PLANT	3	B	1		FLOOR	PIPE INSULATION-CITY WATER	6"		☑
290	POWER PLANT	3	B	1		FLOOR	PIPE INSULATION-CONDENSATE	10"		☑
291	POWER PLANT	3	B	2		FLOOR	NO SUSPECT MATERIALS			☐
292	POWER PLANT	3	B	3		FLOOR	NO SUSPECT MATERIALS			☐
293	POWER PLANT	3	B	4		FLOOR	NO SUSPECT MATERIALS			☐
294	POWER PLANT	3	B	5		FLOOR	NO SUSPECT MATERIALS			☐
295	POWER PLANT	3	C	1		FLOOR	NO SUSPECT MATERIALS			☐
296	POWER PLANT	3	C	2		FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
297	POWER PLANT	3	C	2		FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
298	POWER PLANT	3	C	2		FLOOR	PIPE INSULATION-175# STEAM	12"		☑
299	POWER PLANT	3	C	2		FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
300	POWER PLANT	3	C	2		FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
301	POWER PLANT	3	C	2		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
302	POWER PLANT	3	C	3		FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
303	POWER PLANT	3	C	3		FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
304	POWER PLANT	3	C	3		FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
305	POWER PLANT	3	C	3		FLOOR	PIPE INSULATION-175# STEAM	12"		☑
306	POWER PLANT	3	C	3		FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
307	POWER PLANT	3	C	3		FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
308	POWER PLANT	3	C	3		FLOOR	PIPE INSULATION-ROOF DRAIN	7		☐
309	POWER PLANT	3	C	4		FLOOR	MUDDED TSI FITTING- BOILER BLOWDOWN	4"		☑
310	POWER PLANT	3	C	4		FLOOR	MUDDED TSI FITTING- BOILER FEED	6"		☑
311	POWER PLANT	3	C	4		FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
312	POWER PLANT	3	C	4		FLOOR	PIPE INSULATION-175# STEAM	12"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
313	POWER PLANT	3	C		4	FLOOR	PIPE INSULATION-BOILER BLOWDOWN	4"		☑
314	POWER PLANT	3	C		4	FLOOR	PIPE INSULATION-BOILER FEED	6"		☑
315	POWER PLANT	3	C		4	FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
316	POWER PLANT	3	C		5	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
317	POWER PLANT	3	C		5	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
318	POWER PLANT	3	C		5	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
319	POWER PLANT	3	C		5	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
320	POWER PLANT	3	C		5	FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
321	POWER PLANT	3	D		1	FLOOR	NO SUSPECT MATERIALS			☐
322	POWER PLANT	3	D		2	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
323	POWER PLANT	3	D		2	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
324	POWER PLANT	3	D		2	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
325	POWER PLANT	3	D		3	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
326	POWER PLANT	3	D		3	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
327	POWER PLANT	3	D		3	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
328	POWER PLANT	3	D		4	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
329	POWER PLANT	3	D		4	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
330	POWER PLANT	3	D		4	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
331	POWER PLANT	3	D		5	FLOOR	PIPE INSULATION-MISCELLANEOUS	28"		☑
332	POWER PLANT	4	B		1	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
333	POWER PLANT	4	B		1	FLOOR	MUDDED TSI FITTING-CITY WATER	6"		☑
334	POWER PLANT	4	B		1	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
335	POWER PLANT	4	B		1	FLOOR	PIPE INSULATION-175# STEAM	6"		☑
336	POWER PLANT	4	B		1	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
337	POWER PLANT	4	B		1	FLOOR	PIPE INSULATION-CITY WATER	6"		☑
338	POWER PLANT	4	B		1	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
339	POWER PLANT	4	B	2		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
340	POWER PLANT	4	B	3		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
341	POWER PLANT	4	B	4		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
342	POWER PLANT	4	B	5		FLOOR	MUDDED TSI FITTING- ROOF DRAIN	8"		☑
343	POWER PLANT	4	B	5		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
344	POWER PLANT	4	B	5		FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
345	POWER PLANT	4	B	5		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
346	POWER PLANT	4	B	5		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
347	POWER PLANT	4	B	5		FLOOR	PIPE INSULATION-ROOF DRAIN	8"		☐
348	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
349	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING- SEWER	12"		☑
350	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING-CITY WATER	12"		☑
351	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING-COOLING			☑
352	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING-COOLING			☑
353	POWER PLANT	B	A	1		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
354	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-CITY WATER	12"		☑
355	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-COOLING			☑
356	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-COOLING			☑
357	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-COOLING	8"		☑
358	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
359	POWER PLANT	B	A	1		FLOOR	PIPE INSULATION-SEWER	12"		☐
360	POWER PLANT	B	A	2		FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
361	POWER PLANT	B	A	2		FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
362	POWER PLANT	B	A	2		FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
363	POWER PLANT	B	A	2		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
364	POWER PLANT	B	A	2		FLOOR	PIPE INSULATION-175# STEAM	12"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
365	POWER PLANT	B	A	2		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
366	POWER PLANT	B	A	2		FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
367	POWER PLANT	B	A	2		FLOOR	PIPE INSULATION-COOLING	8"		☑
368	POWER PLANT	B	A	3		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
369	POWER PLANT	B	A	3		FLOOR	PIPE INSULATION-COOLING	8"		☑
370	POWER PLANT	B	A	3		FLOOR	PIPE INSULATION-VENT LINE	10"		☑
371	POWER PLANT	B	A	4		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
372	POWER PLANT	B	A	4		FLOOR	PIPE INSULATION-COOLING			☑
373	POWER PLANT	B	A	4		FLOOR	PIPE INSULATION-COOLING			☑
374	POWER PLANT	B	A	4		FLOOR	PIPE INSULATION-COOLING	8"		☑
375	POWER PLANT	B	A	5		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
376	POWER PLANT	B	A	5		FLOOR	PIPE INSULATION-COOLING	8"		☑
377	POWER PLANT	B	A	6		BATTERY ROOM	NO SUSPECT MATERIALS			☐
378	POWER PLANT	B	A	6		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
379	POWER PLANT	B	A	6		FLOOR	MUDDED TSI FITTING-COOLING	8"		☑
380	POWER PLANT	B	A	6		FLOOR	PIPE INSULATION-25# STEAM	6"		☑
381	POWER PLANT	B	A	6		FLOOR	PIPE INSULATION-COOLING	8"		☑
382	POWER PLANT	B	A	7		FLOOR	PIPE INSULATION-CITY WATER	8"		☑
383	POWER PLANT	B	B	1		FLOOR	MUDDED TSI FITTING- BOILER FEED	12"		☑
384	POWER PLANT	B	B	1		FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
385	POWER PLANT	B	B	1		FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
386	POWER PLANT	B	B	1		FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
387	POWER PLANT	B	B	1		FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
388	POWER PLANT	B	B	1		FLOOR	PIPE INSULATION-25# STEAM	8"		☑
389	POWER PLANT	B	B	1		FLOOR	PIPE INSULATION-BOILER FEED	12"		☑
390	POWER PLANT	B	B	1		FLOOR	PIPE INSULATION-CITY WATER	8"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
391	POWER PLANT	B	B		1	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
392	POWER PLANT	B	B		1	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
393	POWER PLANT	B	B		2	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
394	POWER PLANT	B	B		2	FLOOR	MUDDED TSI FITTING-175# STEAM	10"		☑
395	POWER PLANT	B	B		2	FLOOR	MUDDED TSI FITTING-25# STEAM	18'		☑
396	POWER PLANT	B	B		2	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
397	POWER PLANT	B	B		2	FLOOR	PIPE INSULATION-175# STEAM	10"		☑
398	POWER PLANT	B	B		2	FLOOR	PIPE INSULATION-25# STEAM	18"		☑
399	POWER PLANT	B	B		2	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
400	POWER PLANT	B	B		2	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
401	POWER PLANT	B	B		2	FLOOR	PIPE INSULATION-VENT LINE	10"		☑
402	POWER PLANT	B	B		2	FLOOR	TANK INSULATION - STEAM			☑
403	POWER PLANT	B	B		3	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
404	POWER PLANT	B	B		3	FLOOR	MUDDED TSI FITTING-175# STEAM	12"		☑
405	POWER PLANT	B	B		3	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
406	POWER PLANT	B	B		3	FLOOR	PIPE INSULATION-175# STEAM	12"		☑
407	POWER PLANT	B	B		3	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
408	POWER PLANT	B	B		3	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
409	POWER PLANT	B	B		4	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
410	POWER PLANT	B	B		4	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
411	POWER PLANT	B	B		5	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
412	POWER PLANT	B	B		5	FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
413	POWER PLANT	B	B		5	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
414	POWER PLANT	B	B		5	FLOOR	PIPE INSULATION-25# STEAM	8"		☑
415	POWER PLANT	B	B		5	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
416	POWER PLANT	B	B		5	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
417	POWER PLANT	B	B		5	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
418	POWER PLANT	B	B		6	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
419	POWER PLANT	B	B		6	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
420	POWER PLANT	B	B		6	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
421	POWER PLANT	B	B		6	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
422	POWER PLANT	B	B		6	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
423	POWER PLANT	B	B		6	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
424	POWER PLANT	B	B		7	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
425	POWER PLANT	B	B		7	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
426	POWER PLANT	B	B		7	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
427	POWER PLANT	B	B		7	FLOOR	PIPE INSULATION-25# STEAM	6"		☑
428	POWER PLANT	B	B		7	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
429	POWER PLANT	B	B		7	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
430	POWER PLANT	B	B		7	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
431	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING- BOILER FEED	12"		☑
432	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
433	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
434	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-25# STEAM	6"		☑
435	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
436	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
437	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-COOLING	6"		☑
438	POWER PLANT	B	C		1	FLOOR	MUDDED TSI FITTING-HOT WATER	8"		☑
439	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-175# STEAM	6"		☑
440	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-25# STEAM	10"		☑
441	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-BOILER FEED	12"		☑
442	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-CITY WATER	8"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
443	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
444	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-COOLING	6"		☑
445	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
446	POWER PLANT	B	C		1	FLOOR	PIPE INSULATION-HOT WATER	8"		☑
447	POWER PLANT	B	C		1	FLOOR	TANK INSULATION			☑
448	POWER PLANT	B	C		2	FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
449	POWER PLANT	B	C		2	FLOOR	MUDDED TSI FITTING-175# STEAM	6"		☑
450	POWER PLANT	B	C		2	FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
451	POWER PLANT	B	C		2	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
452	POWER PLANT	B	C		2	FLOOR	PIPE INSULATION-175# STEAM	6"		☑
453	POWER PLANT	B	C		2	FLOOR	PIPE INSULATION-25# STEAM	8"		☑
454	POWER PLANT	B	C		2	FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
455	POWER PLANT	B	C		2	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
456	POWER PLANT	B	C		3	FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
457	POWER PLANT	B	C		3	FLOOR	MUDDED TSI FITTING-175# STEAM	6"		☑
458	POWER PLANT	B	C		3	FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
459	POWER PLANT	B	C		3	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
460	POWER PLANT	B	C		3	FLOOR	PIPE INSULATION-175# STEAM	6"		☑
461	POWER PLANT	B	C		3	FLOOR	PIPE INSULATION-25# STEAM	8"		☑
462	POWER PLANT	B	C		3	FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
463	POWER PLANT	B	C		3	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
464	POWER PLANT	B	C		4	FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
465	POWER PLANT	B	C		4	FLOOR	MUDDED TSI FITTING-175# STEAM	6"		☑
466	POWER PLANT	B	C		4	FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
467	POWER PLANT	B	C		4	FLOOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
468	POWER PLANT	B	C		4	FLOOR	PIPE INSULATION-175# STEAM	6"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
469	POWER PLANT	B	C		4	FLOOR	PIPE INSULATION-25# STEAM	8"		☑
470	POWER PLANT	B	C		4	FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
471	POWER PLANT	B	C		4	FLOOR	PIPE INSULATION-CONDENSATE	4"		☑
472	POWER PLANT	B	C		5	FLOOR	MUDDED TSI FITTING-25# STEAM	8"		☑
473	POWER PLANT	B	C		5	FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
474	POWER PLANT	B	C		5	FLOOR	PIPE INSULATION-25# STEAM	8"		☑
475	POWER PLANT	B	C		5	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
476	POWER PLANT	B	C		5	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
477	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING- BOILER FEED	10"		☑
478	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
479	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING-175# STEAM	8"		☑
480	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING-25# STEAM	14"		☑
481	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
482	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING-CONDENSATE	8"		☑
483	POWER PLANT	B	D		1	FLOOR	MUDDED TSI FITTING-HOT WATER	6"		☑
484	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-175# STEAM	8"		☑
485	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-25# STEAM	14"		☑
486	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-BOILER FEED	10"		☑
487	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
488	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-CONDENSATE	8"		☑
489	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
490	POWER PLANT	B	D		1	FLOOR	PIPE INSULATION-HOT WATER	6"		☑
491	POWER PLANT	B	D		2	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
492	POWER PLANT	B	D		2	FLOOR	MUDDED TSI FITTING-175# STEAM	8"		☑
493	POWER PLANT	B	D		2	FLOOR	MUDDED TSI FITTING-25# STEAM	14"		☑
494	POWER PLANT	B	D		2	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
495	POWER PLANT	B	D		2	FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
496	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-175# STEAM	8"		☑
497	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-25# STEAM	14"		☑
498	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-CITY WATER			☑
499	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
500	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
501	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
502	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-HOT WATER			☑
503	POWER PLANT	B	D		2	FLOOR	PIPE INSULATION-HOT WATER	10"		☑
504	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING- DEAD LINE	4"		☑
505	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
506	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING-175# STEAM	8"		☑
507	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING-25# STEAM	12"		☑
508	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
509	POWER PLANT	B	D		3	FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
510	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-175# STEAM	8"		☑
511	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-25# STEAM	12"		☑
512	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-CITY WATER	8"		☑
513	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
514	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-DEAD LINE	4"		☑
515	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
516	POWER PLANT	B	D		3	FLOOR	PIPE INSULATION-HOT WATER	10"		☑
517	POWER PLANT	B	D		4	FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
518	POWER PLANT	B	D		4	FLOOR	MUDDED TSI FITTING-175# STEAM	6"		☑
519	POWER PLANT	B	D		4	FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
520	POWER PLANT	B	D		4	FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
521	POWER PLANT	B	D	4		FLOOR	MUDDED TSI FITTING-HOT WATER	10"		☑
522	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-175# STEAM	6"		☑
523	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
524	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-CITY WATER	8"		☑
525	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
526	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☐
527	POWER PLANT	B	D	4		FLOOR	PIPE INSULATION-HOT WATER	10"		☑
528	POWER PLANT	B	D	4		RESTROOM	MUDDED TSI FITTING- DEAD LINE			☑
529	POWER PLANT	B	D	4		RESTROOM	MUDDED TSI FITTING-175# STEAM	8"		☑
530	POWER PLANT	B	D	4		RESTROOM	MUDDED TSI FITTING-CITY WATER	6"		☑
531	POWER PLANT	B	D	4		RESTROOM	PIPE INSULATION-175# STEAM	8"		☑
532	POWER PLANT	B	D	4		RESTROOM	PIPE INSULATION-25# STEAM	8"		☐
533	POWER PLANT	B	D	4		RESTROOM	PIPE INSULATION-CITY WATER	6"		☑
534	POWER PLANT	B	D	4		RESTROOM	PIPE INSULATION-CONDENSATE	4"		☑
535	POWER PLANT	B	D	4		RESTROOM	PIPE INSULATION-DEAD LINE			☑
536	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING- FLOOR DRAIN	8"		☑
537	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING-175# STEAM	6"		☑
538	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING-25# STEAM	10"		☑
539	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING-CITY WATER	8"		☑
540	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING-CONDENSATE	6"		☑
541	POWER PLANT	B	D	5		FLOOR	MUDDED TSI FITTING-HOT WATER	10"		☑
542	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-175# STEAM	6"		☑
543	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-25# STEAM	10"		☑
544	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-CITY WATER	8"		☑
545	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-CONDENSATE	6"		☑
546	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-FLOOR DRAIN	8"		☑

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
547	POWER PLANT	B	D	5		FLOOR	PIPE INSULATION-HOT WATER	10"		☑
548	POWER PLANT	B	D	5		FLOOR	TANK INSULATION			☑
549	POWER PLANT	B	E	1		COAL ELEVATOR	MUDDED TSI FITTING-25# STEAM	4"		☑
550	POWER PLANT	B	E	1		COAL ELEVATOR	MUDDED TSI FITTING-CONDENSATE	4"		☑
551	POWER PLANT	B	E	1		COAL ELEVATOR	PIPE INSULATION-25# STEAM	4"		☑
552	POWER PLANT	B	E	1		COAL ELEVATOR	PIPE INSULATION-CONDENSATE	4"		☑
553	POWER PLANT	B	E	5	WTB100	WATER TREATMENT	FIBERGLASS SEALANT			☐
554	POWER PLANT	R	A	1		ROOF-MAIN	BOILER INSULATION			☑
555	POWER PLANT	R	A	1		ROOF-MAIN	CAULK-DUCT			☑
556	POWER PLANT	R	A	1		ROOF-MAIN	ROOFING MATERIAL			☑
557	POWER PLANT	R	A	1		ROOF-MAIN	ROOFING MATERIAL			☑
558	POWER PLANT	R	A	1		ROOF-MAIN	ROOFING MATERIAL			☑
559	POWER PLANT	R	A	1		ROOF-WATER TREATMENT	NO SUSPECT MATERIALS			☐

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	AbatementAction	RepairRemoved	Amt Affected	Units	Abatement Date	Contractor	Abatement Comments
1	No		0				
2	No		0				
3	No		0				
4	No		0				
5	No		0				
6	No		0				
7	No		0				
8	No		0				
9	No		0				
10	No		0				
11	No		0				
12	No		0				
13	No		0				
14	No		0				
15	No		0				
16	No		0				
17	Yes	REMOVAL	10	SQ FT	10/1/1999	KEEN & CROSS	Tank insulation all removed.
18	No		0				
19	No		0				
20	No		0				

GENERAL MOTORS MFD MANSFIELD PLANT
2525 W. FOURTH STREET, MANSFIELD, OHIO
DETAIL REPORT - ASBESTOS SURVEY FILE

Line #	Building Name	Floor Num	Col. Letter	Col. Num	Room Num	Room Name	Material Description	Size	Color / Pattern	ACM
1	RACKWASH	1	A	1		EXTERIOR	NO SUSPECT MATERIALS			☐
2	RACKWASH	1	A	1	RW102		FIBERGLASS SEALANT			☐
3	RACKWASH	1	A	1	RW102		PIPE HANGER BLOCK			☐
4	RACKWASH	1	A	1	RW102A		FIBERGLASS SEALANT			☐
5	RACKWASH	1	A	1	RW102A		PIPE HANGER BLOCK			☐
6	RACKWASH	1	A	1	RW102A		TANK INSULATION - STEAM			☐
7	RACKWASH	1	A	1	RW102A		TANK INSULATION - STEAM			☐
8	RACKWASH	1	A	1	RW102B		CEILING TILE	2' x 4'	PERFORATED	☐
9	RACKWASH	1	A	1	RW102B		CEILING TILE	2' x 4'	PERFORATED	☐
10	RACKWASH	1	A	1	RW102B		CEILING TILE	2' x 4'	PERFORATED	☐
11	RACKWASH	1	A	1	RW102B		PIPE HANGER BLOCK			☐
12	RACKWASH	1	A	1	RW102C		FIBERGLASS SEALANT			☐
13	RACKWASH	1	A	1	RW102C		FIBERGLASS SEALANT			☐
14	RACKWASH	1	A	1	RW102C		MUDDED TSI FITTING-25# STEAM			☐
15	RACKWASH	1	A	1	RW102C		PIPE HANGER BLOCK			☐
16	RACKWASH	1	A	1	RW102C		PIPE HANGER BLOCK			☐
17	RACKWASH	1	A	1	RW102C		TANK INSULATION - STEAM			☑
18	RACKWASH	R	A	1		ROOF	ROOFING MATERIAL			☑
19	RACKWASH	R	A	1		ROOF	ROOFING MATERIAL			☑
20	RACKWASH	R	A	1		ROOF	ROOFING MATERIAL			☑

ENV017
Waste Reports and Records
(Asbestos)
30 years with review

SURVEY FOR ASBESTOS CONTAINING MATERIALS

DECEMBER 13, 1990

SURVEY

FOR

STOS-CONTAINING MATERIALS

AT

GENERAL MOTORS
ANSFIELD, OHIO 44906

PROJECT NO. 07-6354-02

DECEMBER 13, 1990

C-P-C MANSFIELD
Aug 14 12 37 PM '90
MASTER MECHANICS
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BCM

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1.0 EXECUTIVE SUMMARY

In an effort to identify potential liabilities with respect to the presence of asbestos containing materials (ACM), General Motors (GM) has initiated an Asbestos Management Program (AMP) and an Operations and Maintenance Program (O & M). The initial phase of an AMP is an asbestos materials survey. BCM Engineers Inc. (BCM) was retained to conduct this survey. The Manufacturing Building press room (Col. A1-32 & OA1-32), metal assembly area (Col. OA1-32 & C'1-32), administration offices, mezzanine level, plant security, roof substations (E-H, J-N, & P), roof mechanical rooms (E-G & K), roof cooling equipment, original switch house, Guard House No. 3, powerhouse building and cooling tower, baler house building, and waste treatment complex at the Mansfield facility were visually inspected for the presence of ACM in various forms including pipe insulation, fitting and elbow insulation, tank and boiler cover, transite wallboard, and miscellaneous building materials. All suspect materials were sampled, where possible, and analyzed by polarized light microscopy (PLM) at BCM's NVLAP-accredited laboratory to determine asbestos content. The locations of all bulk samples and identified ACM were noted on the floor plans.

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2.0 INTRODUCTION

2.1 BACKGROUND

The U.S. Environmental Protection Agency (EPA) has been concerned about the health hazard potential of exposure to airborne asbestos since the early 1970s. Most of the EPA's efforts to date have been in the identification and control of friable asbestos materials in school buildings. The EPA's National Emissions Standards for Hazardous Air Pollutants (NESHAP) regulations require that buildings scheduled for demolition have any asbestos materials removed before they are razed.

The Occupational Safety and Health Administration (OSHA) regulates the exposure of workers to airborne asbestos fibers. In the time period of 1970 through 1976, the maximum allowable exposure to airborne asbestos fibers was 5.0 fibers per cubic centimeter of air (f/cc). In 1976, OSHA lowered this standard to 2.0 f/cc, and on June 20, 1986, again lowered the standard to 0.2 f/cc with an action level of 0.1 f/cc. It should be emphasized here that these figures were designed to protect workers in an industrial environment over an 8-hour work shift. In 1988, OSHA established a short-term (30-minute) exposure limit of 0.1 f/cc.

2.2 SCOPE

BCM was retained by GM to perform an asbestos materials inspection, testing, and assessment survey at its Mansfield, Ohio, facility. The scope of the project was three-fold as follows:

1. To identify the location and type of friable and non-friable asbestos present in construction materials used in the facilities

2. To quantify the amount of ACM present and its condition

3. To list feasible response actions when corrective action is recommended

BCM

3.0 INSPECTION PROCEDURES

3.1 VISUAL INSPECTION

The insulated pipes and friable and nonfriable materials within the Manufacturing Building press room, metal assembly area, administration offices, mezzanine level, plant security, roof substations (E-H, J-N & P), roof mechanical rooms (E, F, G & K), powerhouse building and cooling tower, baler house building, original switch house, and waste treatment complex were visually inspected for suspect ACM. Samples were taken in accordance with GM Project No. MAN89-018, Proposal No. AMS89-001, Item No. 1.1, paragraph 4. Areas that contain no ACM are as follows: Guard House No. 3, electrical roof substations (F & G, J-N & P).

3.2 BULK SAMPLE COLLECTION

Sample collection was performed in conjunction with the visual inspection. Samples were taken of material that could not be visually identified as ACM. The suspect material was given an identifying number that corresponded to the area from which it was taken. Discretionary core samples of the suspect material were collected by penetrating the material to the substrate to ensure a valid sample. The field survey was conducted to pinpoint and identify ACM locations. Insulation that was in good condition was normally not sampled since sampling requires the breaking of the protective jacket that covers the material, thus potentially exposing friable ACM.

3.3 SAMPLE ANALYSIS

The material samples were returned to BCM's NVLAP-accredited, EPA-certified laboratory for analysis by PLM. This method utilizes an optical microscope equipped with a polarizing lens through which a trained microscopist can identify asbestos fibers according to their crystalline structure. Fibers are first isolated within the microscope field; the analyst then aligns the polarizing filter first parallel, and then perpendicular to the fiber. This polarizing effect causes a color change in the fiber which is specific for the mineral contained in the sample.

BCM

4.0 ASBESTOS EXPOSURE ASSESSMENT

Several factors, acting singularly or in combination, can cause potential environmental contamination and exposure of building occupants. Experience has shown that eight factors generally influence exposure potential.

4.1 CONDITION OF MATERIAL

Material condition indicates the extent of contamination and the likelihood of future contamination. This factor is a combination of quality of installation, adhesion of the friable material to the underlying surface, material deterioration, and damage. Delamination or deterioration of the material depends on the individual characteristics of each material.

4.2 WATER DAMAGE

Water can dislodge, delaminate, and disturb ACM materials that are otherwise in excellent condition. Water can carry fibers in a slurry to other areas in the building where evaporation will leave a collection of fibers that can become suspended in the air. Water damage will have a significant effect on selection of a corrective method, essentially eliminating certain types of sealants (encapsulation).

4.3 EXPOSED SURFACE AREA

The exposed surface area of friable ACM has an effect on potential fiber fallout levels and increases the possibility for contact and damage. A useful criterion to apply for this factor is whether the friable ACM is visible. ACM above suspended ceilings, for instance, is not considered to be exposed. However, if the ceiling panels are removed for routine maintenance activities above the suspended ceiling or are damaged, the ACM should be considered as exposed in that area. Areas with louvers, grids, or other open ceiling systems should also be considered as exposed.

4.4 ACCESSIBILITY

If the material can be reached in the work space, it is accessible and subject to accidental or intentional contact and damage. This factor should also include some consideration of the proximity of friable ACM to heating, ventilation, lighting, and plumbing systems requiring maintenance or repair. Material that is accessible is considered a greater risk because vandalism is possible.

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4.5 ACTIVITY AND MOVEMENT

Air movement, vibration from machinery or other sources, and occupant activity levels have the potential of resulting in the release of fibers to the air. This factor is also an indicator of future exposure potential.

4.6 AIR PLENUM OR DIRECT AIR STREAM

Friable ACM contained within an air plenum or in an air stream environment, if undisturbed, has very low potential for contaminating the building environment. However, contact and damages that occur during maintenance, repairs, and renovation will cause fibers to be dispersed throughout the ventilation system.

4.7 FRIABILITY

The ACM can vary in degree of friability. The more friable the material, the greater the potential for asbestos fiber release and contamination. Sprayed ACM is generally more friable than most troweled material.

4.8 ASBESTOS CONTENT

Materials with a high percentage of asbestos have the potential to release more asbestos fibers than those with smaller percentages.

BCM

5.0 RESULTS OF VISUAL INSPECTION

5.1 PRESS ROOM (COL. A1-32 - OA1-32) & METAL ASSEMBLY (COL. OA1-32 - C'1-32)

These areas contain approximately 26,000 linear feet of asbestos-containing pipe insulation (ACPI) on the high and low pressure steam lines. There are an additional 41,000 linear feet of nonasbestos pipe insulation on which the elbows and fittings contain asbestos. Hot and cold waterlines and welder waterlines are insulated in this manner. There are also areas of HVAC system insulation (approximately a 2-inch wide coating around the edges of the air handling units) which contain asbestos. All insulation is generally in very good condition with areas of localized damage, ranging from minor to severe. For recommendations pertaining to the damaged areas, refer to Section 9.2.1.

5.2 ADMINISTRATION OFFICES & MEZZANINE LEVEL (INCLUDING PASSAGEWAY)

These areas contain several types of ACM. There are approximately 2,000 linear feet of ACPI on the high and low pressure steam lines. An additional 12,000 linear feet of pipe insulation are asbestos-free with asbestos-containing elbows and fittings. Hot and cold waterlines are insulated in this manner. There are also areas of HVAC system insulation as described above (approximately a 2" wide coating around the edges) which contain asbestos. All insulation is generally in very good condition with localized areas of minor damage. There is approximately 61,500 square feet of vinyl asbestos floor tile (VAT) in these areas. This VAT is generally in very good to excellent condition. Approximately 26,000 square feet of dust sheeting are located above the metal pan ceiling in various areas. This material is generally in poor condition and is highly friable. There are also approximately 22,000 square feet of transite board in these areas. This material is generally in good condition with some areas of minor damage. For recommendations pertaining to the damaged areas, refer to Section 9.2.2.

5.3 PLANT SECURITY (INCLUDING HOURLY EMPLOYEE ENTRANCE & GARAGE)

This area contains approximately 300 linear feet of ACPI. There are an additional 450 linear feet of nonasbestos pipe insulation on which the elbows and fittings contain asbestos. This area also contains approximately 3,000 square feet of VAT. These materials are generally undamaged.

5.4 ROOF SUBSTATIONS (E-H, J-N & P) & ROOF MECHANICAL ROOMS (E-G & K)

These areas contain approximately 200 linear feet of ACPI. There are an additional 700 linear feet of nonasbestos pipe insulation on which the elbows and fittings contain asbestos. There are also areas of HVAC system insulation as previously described (approximately a 2" wide coating around the edges) which are asbestos- containing. These materials can be found in various degrees of physical condition, ranging from extremely damaged to excellent. For recommendations pertaining to the damaged areas, refer to Section 9.2.3.

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Insert Table 1

BCM Engineers

Engineers, Planners, Scientists and Laboratory Services

5777 Baum Boulevard • Pittsburgh, PA 15206 • (412) 361-6000

PROJECT SITE INFORMATION

Under Contract To: GM-CPC Mansfield Ohio

Site Location: GM-CPC Mansfield Ohio

Asbestos Contractor: N/A

Allegheny County Permit No.: N/A

ANALYTICAL DATA

Filter Type: Millipore .8um

Filter Size: 25 mm

Area: 385

Microscope: Nikon

Reticle Size: .00785

Analyst: MFS

I certify that the above samples were taken and the fiber counts performed in strict compliance with applicable standards and regulations.

Mark F. Shattock
(Signature of Certifying Official)

Sampling Data:

Date 1990	Sample I.D. No.	Location Description	Type	Sampling Period: Time-on	Time-off	No. Minutes	Cal. Flow	Volume (Liters)	Pump No.	No. Fibers Counted	LLD* f/cc	Airborne Results f/cc
5-24	CPC001	COAT ROOM - 207	B	0950	1500	310	2.0	620	B-1	8 1/2	.004	.007
5-24	CPC002	COAT ROOM - 231	B	0950	1510	315	2.0	630	B-2	10	.004	.008
5-24	CPC003	CORRIDOR ABOVE CEILING - 233	B	0955	1510	315	2.0	630	B-3	17 1/2	.004	.014
5-24	CPC004	RM-237 - R.F. LESSICK	B	0955	1510	315	2.0	630	B-4	4	.004	<.004
5-24	CPC005	RM-249 - OFFICES	B	1000	1515	315	2.0	630	B-5	1	.004	<.004
5-24	CPC006	RM-119 BACK RM	B	1700	1900	120	2.0	240	B-1	11	.011	.022
5-24	CPC007	RM-128 OFFICE	B	1700	1900	120	2.0	240	B-2	2	.011	<.011
5-24	CPC008	RM-139 XEROX RM.	B	1700	1900	120	2.0	240	B-3	2	.011	<.011
5-24	CPC009	RM-149 PAY ROLL OFFICE	B	1700	1900	120	2.0	240	B-4	6 1/2	.011	.013
5-24	CPC010	HALLWAY PLANTER NEXT TO 134	B	1700	1900	120	2.0	240	B-5	5 1/2	.011	.011

B Background
D During
C Clearance
Fibers obstructed due to heavy filter loading
* NIOSH specifies that 10 fibers be observed in 100 fields to attain a lower limit of detection
All pumps calibrated daily as used.

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6.2 BULK SAMPLE ANALYSIS

GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0001	Powerhouse Basement	Hot Water Tank #1 Insul.	35% Chrysotile
PH0002	Powerhouse Basement	Hot Water Tank #1 Insul.	25% Chrysotile Trace Amosite
PH0003	Powerhouse Basement	Hot Water Tank #2 Insul.	15% Amosite 25% Chrysotile
PH0004	Powerhouse Basement	Hot Water Tank #2 Insul.	25% Amosite 10% Chrysotile
PH0005	Powerhouse Basement	Anthrofilt Filter Tank #1	55% Chrysotile
PH0006	Powerhouse Basement	Anthrofilt Filter Tank #2	35% Amosite 10% Chrysotile
PH0007	Powerhouse Basement	Anthrofilt Filter Tank #3	2% Amosite 35% Chrysotile
PH0008	Powerhouse Main Floor	Hot Water Tank Insulation	30% Amosite 10% Chrysotile
PH0009	Powerhouse Main Floor	Water Softener-Hot Water Process Tank Insulation	30% Amosite 15% Chrysotile
PH0010	Powerhouse Main Floor	Steam Separator Insulation	30% Chrysotile
PH0011	Boiler No. 3	Dust Collector Insulation	45% Chrysotile
PH0012	Boiler No. 3	Boiler Insulation	2% Amosite 45% Chrysotile
PH0013	Boiler No. 2	Dust Collector Insulation	60% Amosite 10% Chrysotile
PH0014	Boiler No. 2	Boiler Insulation	20% Chrysotile
PH0015	Boiler No. 1	Dust Collector Insulation	35% Amosite 5% Chrysotile
PH0016	Boiler No. 1	Boiler Insulation	0%
PH0017	Powerhouse 4th Level	Hot Water Process Tank Water Softener	30% Amosite 15% Chrysotile

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0018	3rd Level	Condensate Return Line Tank	20% Amosite 10% Chrysotile
PH0019	3rd Level	8" Hot Water Return Line	0%
PH0020	3rd Level	4" Hot Water Return Line	0%
PH0021	3rd Level to Baler House	Condensate Return Line Hard Joint on Fiberglass Line	0%
PH0022	3rd Level to Baler House	Condensate Return Line White Insulation	25% Amosite 20% Chrysotile
PH0023	3rd Level to Baler House	25 lb psi Pipe Insulation	25% Amosite 2% Chrysotile
PH0024	3rd Level to Baler House	175 lb psi Pipe Insulation	35% Amosite 5% Chrysotile
PH0025	3rd Level	Roof Drain Pipe Insulation	0%
PH0026	Basement	25 lb psi Pipe Insulation	30% Amosite 2% Chrysotile
PH0027	Basement	6" Hot Water Supply to Factory Pipe Insulation	0%
PH0028	Powerhouse Basement	Cold Water Line City	5% Chrysotile
PH0029	Powerhouse Basement	Roof Drain Pipe Insulation Line	0%
PH0030	Powerhouse Basement	Hot Water Recircul. Line	0%
PH0031	Powerhouse Basement	Boiler Feed Water Supply Loop Line	25% Amosite 5% Chrysotile
PH0032	Powerhouse Basement	175 psi Line	10% Amosite 2% Chrysotile
PH0033	Powerhouse Basement	Steam Supply Steam Exhaust Receiver Separator	0%
PH0034	Powerhouse Basement	Steam Supply Pipe Insul. Line to Steam Exhaust Sep.	15% Amosite 10% Chrysotile

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0035	Powerhouse Basement	25 psi Line Steam Supply	20% Amosite 10% Chrysotile
PH0036	Powerhouse Basement	Condensate Return Line Pipe Insulation	0%
PH0037	Powerhouse Basement	City Water Main Line Hard Joint with Fiberglass Pipe Insulation	25% Chrysotile
PH0038	Powerhouse Basement	Pump Discard to Elevated Bay	Trace Amosite 10% Chrysotile
PH0039	Powerhouse Basement	Cold Water Return Pipe Ins.	0%
PH0040	Powerhouse Basement	Cold Water Supply Pipe Ins.	0%
PH0041	Powerhouse Main Floor Break Area	Wall Board	0%
PH0042	Powerhouse Main Floor Break Area	Floor Tile ~~1'x 1' Gold Spot~~	0%
PH0043	Powerhouse Main Floor Break Area	Ceiling Tile Drywall	0%
PH0044	Powerhouse Basement	Steam Line on Trap--T-24 Pipe Insulation 3"	25% Amosite 5% Chrysotile
PH0045	Powerhouse Basement	6" Pipe Insulation on Steam Supply Line	30% Amosite 10% Chrysotile
PH0046	Powerhouse 2nd Level	Boiler #1 Main Steam Line Hard White Insulation	30% Amosite 5% Chrysotile
PH0047	Powerhouse 2nd Level	Steam Header Silver Pipe Steam Supply Line	30% Amosite 5% Chrysotile
PH0048	Powerhouse 2nd Level	Boiler #1 Feed Water Insulation	35% Amosite 5% Chrysotile
PH0049	Powerhouse 2nd Level	Cold Water Fiberglass Line Elbow Insulation	65% Chrysotile
PH0050	~~2nd Floor Plant~~ Powerhouse 2nd Level	Boiler #1 Insul. on Jacket	0%
WT0051	Waste Treatment Plant	Cold Water Pipe Insulation	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
WT0052	Waste Treatment Plant	Hot Waterline Pipe Insul.	2% Chrysotile
WT0053	Waste Treatment Plant	Steam 25 psi Line	20% Amosite 20% Chrysotile
WT0054	Waste Treatment Plant	25 psi Elbow Insulation	45% Chrysotile
WT0055	New Oil Recovery Tank	Spray-on Insulation	0%
AD0056	3rd Floor Corridor-Admin.	3" Riser Cold Water Line	0%
AD0057	3rd Floor Corridor-Admin.	3" Riser Hot Water Line	0%
AD0058	3rd Floor Corridor-Admin.	8" Line Elbow Fiberglass Glass Line	0%
AD0059	3rd Floor Corridor-Admin.	8" Line Elbow Fiberglass Glass Line	0%
AD0060	3rd Floor Corridor-Admin.	8" Hanger Insulation Fiberglass Glass Line	0%
AD0061	3rd Floor Corridor-Admin.	8" Hanger Insulation Fiberglass Glass Line	0%
AD0062	3rd Floor Corridor-Admin.	25 psi Line	25% Amosite 5% Chrysotile
AD0063	3rd Floor Corridor-Admin.	3" Riser Elbow Insulation	55% Chrysotile
PS0064	21-A-Press Shop	3" Riser Pipe Insulation	0%
PS0065	21-A-Press Shop	3" Riser Elbow Insulation	60% Chrysotile
PS0066	2-0 Press Shop	6" Hot Water Line	0%
PS0067	2-0 Press Shop	Cold Water Pipe Insulation	0%
PS0068	20-M Press Shop	25 psi Steam Line	25% Amosite 10% Chrysotile
PS0069	20-M Press Shop	Elbow Insulation off 25 lb Steam Line for HVAC Systems	35% Chrysotile
PS0070	20-M Press Shop	Fiberglass Insulation on HVAC System	0%
PS0071	Press Shop Area 28-0	Roof Drain Pipe Insulation	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
MA0072	15+16 Metal Assembly	Steam Pipe Insulation	25% Amosite 25% Chrysotile
MA0073	B-1-31 Metal Assembly	Roof Drain Pipe Insulation	0%
MA0074	B-1-32 Metal Assembly	Fiberglass Insulation with Hard Joints	50% Chrysotile
MA0075	U-29 Metal Assembly	Pipe Insulation on Water Fountain	20% Amosite 20% Chrysotile
SUBH0076	Substation H	Steam Pipe Insulation	0%
SUBH0077	Substation H	Steam Hard Joint Insulation	40% Chrysotile
SUBJ0078	Substation J	25 psi Steam Line	25% Amosite 10% Chrysotile
SUBJ0079	Substation J	Pump Insulation on Pump Line	0%
SUBJ0080	Substation J	Elbow Insulation on Pump Line	60% Chrysotile
SUBJ0081	Substation J	Cold Water Pipe Insulation Line	0%
SUBJ0082	Substation J	Cold Water Elbow Insulation	55% Chrysotile
SUBJ0083	Substation J	Cloth Wrap on Fiberglass Duct Insulation	0%
AD0084	Training Room-Admin. Area	9" x 9" Red Floor Tile	5% Chrysotile
AD0085	Copy Room 215	Plaster	0%
AD0086	Vending Room 219	Plaster	0%
AD0087	Stairwell 2nd Floor	Plaster	0%
AD0088	Room 251 Above Ceiling	Pipe Insulation Cold Water Run	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
AD0089	Room 251 Above Ceiling	Elbow Insulation Cold Water Run	25% Chrysotile
AD0090	Room 251 Above Ceiling	Pipe Insulation Cold Water Run	0%
AD0091	Room 251 Above Ceiling	Elbow Insulation Cold Water Run	25% Chrysotile
AD0092	2nd Floor Stairwell	Plaster	0%
AD0093	2nd Floor Key Punch Room	Ceiling Tile	0%
AD0094	Data Process. 2nd Floor	Ceiling Tile	0%
AD0095	Confer. Rm. 200, 2nd Floor	Ceiling Tile	0%
GS0096	Guard Station, 2nd Floor	Plaster	0%
GS0097	Guard Station, 2nd Floor	Pipe Insulation	45% Amosite 2% Chrysotile
GS0098	Guard Station, 2nd Floor	Elbow Insulation	25% Chrysotile
EE0099	Employee Entrance Main Parking Lot	Floor Tile	0%
V-31-0100	Roof V-31 Area	Roofing Felt Paper	10% Chrysotile
EE0101	Employee Entrance Main Parking Lot	Floor Tile	0%
EE0102	Employee Entrance Main Parking Lot	Floor Tile	0%
CC0103	Custodian's Closet Employee Entrance	Floor Tile	2% Chrysotile
CC0104	Custodian's Closet Employee Entrance	Floor Tile	2% Chrysotile
CC0105	Custodian's Closet Employee Entrance	Floor Tile	2% Chrysotile
AD0106	Corridor Next to Rm. 315	10" Pipe Insulation	0%
AD0107	Corridor Next to Rm. 315	10" Elbow Insulation	0%

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
AD0108	Corridor Next to Rm. 315	10" Pipe Insulation	0%
AD0109	Corridor Next to Rm. 315	10" Elbow Insulation	0%
AD0110	Corridor Next to Elevator, 3rd Floor	4" Waterline Pipe Insul.	0%
AD0111	Corridor Next to Elevator, 3rd Floor	4" Waterline Elbow Insul.	20% Chrysotile
AD0112	Corridor Next to Elevator, 3rd Floor	4" Waterline Elbow Insul.	25% Chrysotile
AD0113	Corridor Next to Elevator, 3rd Floor	4" Pipe Insulation	0%
AD0114	Cafeteria	Ceiling Tile	0%
AD0115	Cafeteria	Ceiling Tile	0%
AD0116	Cafeteria	Ceiling Tile	0%
MA0117	Metal Assembly V-30 & W-30, V-29 & W-29	Elbow Insulation	25% Chrysotile
MA0118	Metal Assembly V-30 & W-30, V-29 & W-29	Pipe Insulation	0%
MA0119	Metal Assembly V-30 & W-30, V-29 & W-29	Pipe Insulation	0%
MA0120	Metal Assembly O-28	Gate Valve Toxic Line	10% Chrysotile
MA0121	Metal Assembly O-28	Pipe Insulation Toxic Line	0%
MA0122	Metal Assembly P-26 & P-27	Elbow Insulation	25% Chrysotile
MA0123	Metal Assembly P-26 & P-27	Pipe Insulation	0%
MA0124	Metal Assembly P-27 & Q-27	Bathroom Roof Drain Elbow Insulation	0%
MA0125	Metal Assembly P-27 & Q-27	Bathroom Roof Drain Pipe Insulation	0%

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
MA0126	Metal Assembly Q-26 & Q-27	4" Hot Water Elbow Insul.	25% Amosite 5% Chrysotile
MA0127	Metal Assembly Q-26 & Q-27	4" Hot Water Pipe Insul.	0%
PH0128	Powerhouse Next to Hot Water Tanks	6" Hot Water Supply Factory Line Elbow Insulation	20% Chrysotile
PH0129	Powerhouse Next to Hot Water Tanks	3" Hot Water Recirculation Line Elbow Insulation	45% Chrysotile
PH0130	Powerhouse Next to Hot Water Tanks	Roof Drain Elbow Insulation	20% Chrysotile
PH0131	Powerhouse Across From Elevator Basement	Condenser Return Line Elbow Insulation	40% Chrysotile
PH0132	Powerhouse Basement North Side Building	Cold Water Return Gate Valve	40% Chrysotile
PH0133	Powerhouse Basement North Side Building	Cold Water Supply Gate Valve	0%
PH0134	Powerhouse Basement North Side Building	Cold Water Return Elbow Elbow Insulation	10% Chrysotile
PH0135	Powerhouse Basement North Side Building	Cold Water Supply Elbow Insulation	25% Chrysotile
PH0136	Powerhouse Basement West Side	Main Feed Cold Water City Line	2% Chrysotile
PH0137	Powerhouse Basement Next to Anthrofilt Filter Tanks	4" Pipe Insulation Front Side of Tanks	35% Amosite
PH0138	Powerhouse Basement Next to Anthrofilt Filter Tanks	4" Backwash to Softeners	35% Amosite 2% Chrysotile
PH0139	Powerhouse Basement Next to Rest Room	2" Line off Ceil. to Floor	0%
PH0140	Powerhouse Basement Next to Rest Room	Pipe Insulation on City Water Line	0%

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0141	Powerhouse 2nd Level #1 Boiler	Steam Drum Insulation	20% Chrysotile
PH0142	Powerhouse 2nd Level #1 Boiler	Economizer Insulation	15% Chrysotile
PH0143	Powerhouse 2nd Level #1 Boiler	ID Fan Insulation	5% Amosite 20% Chrysotile
PH0144	Powerhouse 2nd Level	6" Hot Water Return Line	20% Amosite 5% Chrysotile
PH0145	Powerhouse 2nd Level	8" Hot Water Return Line	20% Amosite 2% Chrysotile
PH0146	Powerhouse 2nd Level to Tunnel to Baler House	10" Cold Waterline Pipe Insulation	0%
PH0147	Powerhouse 2nd Level to Tunnel to Baler House	25' Steam Line	10% Amosite
PH0148	Powerhouse 2nd Level to Tunnel to Baler House	Chilled Water from Absorbers Pipe Insulation	2% Chrysotile
PH0149	Powerhouse 2nd Level to Tunnel to Baler House	Chilled Water from Absorbers Elbow Insulation	15% Chrysotile
PH0150	Powerhouse 2nd Level to Tunnel to Baler House	Chilled Water from Absorbers Pipe Insulation	0%
PH0151	Powerhouse 2nd Level to Tunnel to Baler House	Chilled Water from Absorbers Elbow Insulation	20% Chrysotile
PH0152	Powerhouse Above Office Area	Cold Water Line Elbow Insulation	20% Chrysotile
PH0153	Powerhouse Above Office Area	Cold Water Line Pipe Insulation	0%
PH0154	Powerhouse Main Floor Boiler #1	Boiler Insulation	0%
PH0155	Powerhouse Main Floor from Boiler #2	Cooling Water Line to Fans	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0156	Powerhouse Main Floor from Boiler #2	Cooling Water Line to Fans	35% Chrysotile
PH0157	Powerhouse Main Floor from Boiler #2	Cooling Water Line to Fans off Boiler #2	0%
PH0158	Powerhouse Main Floor from Boiler #2	Cooling Water Line to Fans off Boiler #2	30% Chrysotile
PH0159	Powerhouse #2 Boiler 2nd Level	ID Fan Insulation	0%
PH0160	Powerhouse #2 Boiler 2nd Level	Economizer Insulation	50% Chrysotile
PH0161	Powerhouse #2 Boiler 2nd Level	Steam Drum Insulation	35% Chrysotile
PH0162	Powerhouse #3 Boiler 2nd Level	ID Fan Insulation	25% Amosite 20% Chrysotile
PH0163	Powerhouse #3 Boiler 2nd Level	Economizer Insulation	30% Amosite 2% Chrysotile Crocidolite (Trace)
PH0164	#3 Boiler Steam	Steam Drum Insulation	25% Chrysotile
AD0165	Admin. Bldg., 3rd Floor, Old Office Cafeteria Room	~~Black 9" x 9"~~ Floor Tile	0%
AD0166	Admin. Bldg., 3rd Floor, Old Office Cafeteria Room	~~Black 9" x 9"~~ Floor Tile	0%
AD0167	Admin. Bldg., 3rd Floor, Old Office Cafeteria Room	~~Black 9" x 9"~~ Floor Tile	0%
MA0168	A-11 Metal Assembly	Roof Drain Elbow Insulation	15% Chrysotile
PH0169	Basement	Roof Drain Elbow Insulation	40% Chrysotile
PH0170	Basement	Roof Drain Elbow Insulation	25% Chrysotile
PH0171	Basement	Roof Drain Elbow Insulation	30% Chrysotile
PH0172	Basement	Gate Valve Insulation	5% Chrysotile
PH0173	Basement	Elbow Insulation	0%
PH0174	Basement Next to Hot Water Tank	Pipe Insulation	2% Chrysotil

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GENERAL MOTORS CORPORATION

BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0175	2nd Level	Roof Drain Elbow Insulation	20% Chrysotile
MA0169	X17	25# Expansion Loop	25% Amosite 5% Chrysotile
MA0170	Y15	Mud on Fiberglass Cold Water Valve Insulation	35% Chrysotile
PH0176	Powerhouse Main Level North Door Entrance	Pipe Insulation Cooling Water Supply Line	0%
PH0177	Powerhouse Main Level North Door Entrance	Elbow Insulation Cooling Water Supply Line	2% Chrysotile
PH0178	Powerhouse Main Level North Door Entrance	Pipe Insulation Cooling Water Supply Line	0%
PH0179	Powerhouse Main Level North Door Entrance	Elbow Insulation Cooling Water Supply Line	25% Chrysotile
PH0180	Powerhouse Main Level North Door Entrance	Gate Valve Insulation on Fiberglass Line	45% Chrysotile
PH0181	Powerhouse Main Level Pump Next to Office	Insulation on Pump	0%
PH0182	Powerhouse Main Level Across Generator	Gate Valve Insulation	25% Chrysotile
PH0183	Powerhouse 2nd Level	Chilled Water from Absorb.	0%
PH0184	Powerhouse Basement	Cold Water Supply Elbow	10% Chrysotil
PH0185	Powerhouse Basement	Cold Water Return Elbow	5% Chrysotile
SUB-F-0186	Substation F	Pipe Insulation	0%
SUB-F-0187	Substation F	Pipe Insulation	0%
SUB-F-0188	Substation F	Insulation on Wrap of Fiberglass Duct Insulation	20% Chrysotil
SUB-G-0189	Substation G	Chiller Elbow Insulation	25% Chrysotil

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PS0190	A-12 Fire Wall	Cold Water Pipe Insulation	0%
PS0191	A-12 Fire Wall	Cold Water Elbow Insulation	15% Chrysotile
RR0192	Custodian's Closet Downstairs C-21	Cold Water Elbow Insulation	15% Chrysotile
RR0193	Custodian Closet Below from C-21	Cold Water Pipe Insulation	0%
PS0194	C-21 Beam	Air Cell Pipe Insulation	70% Chrysotile
RR0195	C-11 Closet, Men's Room	Cold Water Pipe Insulation	0%
AD0196	Rm. 317 & Men's Room Custodial Closet Pipe Chase	Cold Water Elbow Insulation	20% Chrysotile
AD0197	Across Room 317 Custodian Closet Pipe Chase	Cold Water Pipe Insulation	0%
AD0198	Across Room 317 Custodian Closet Pipe Chase	Hot Water Pipe Insulation	5% Chrysotile
AD0199	Between Men's Room & Room 319 Pipe Chase	Hot Water Elbow Insulation	25% Chrysotile
MA0200	Metal Assembly X-21 Men's Room	Hot Water Pipe Insulation	20% Amosite 5% Chrysotile
MA0201	Metal Assembly X-21 Men's Room	Cold Water Pipe Insulation	0%
MA71201	P-8	25 lb Steam Line	0%
MA71202	P-8	Toxic Line-Hard Insulation	0%
PH0202	Coal Conveyor	Pipe Insulation	15% Amosite 10% Chrysotile
PH0203	Coal Conveyor	Pipe Insulation	0%
PH0204	Stock	Celatom (Filter Material)	0%
PH0205	Stock	Fire Brick	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PH0206	2nd Level Between Boiler #2 & 3	Pipe Insulation Water Supply to Boilers	0%
PH0207	2nd Level Between Boiler #2 & 3	Elbow Insulation Water Supply to Boilers	0%
PH0208	Trestle Baler House	Cooling Line	10% Amosite 15% Chrysotile
PH0209	Main Floor Exit to Baler House	Chemical Feedline	0%
PH0210	Main Floor Exit to Baler House	Chemical Feedline	25% Amosite
PH0211	Main Floor Pump Room	Heater Insulation	5% Chrysotile
MA0212	Metal Assembly Rest Room X-21 Pipe Chase	Cold Water Pipe Insulation	0%
SUB-E-0213	Substation E Mech.	Hot Water Pipe Insulation	0%
AD0214	Locker Room #1	Hot Water Line	0%
MA0215	R-16	Cold Water Line Hanger Ins.	0%
MA0216	R-16	Hot Water Line Hanger Ins.	0%
PH0217	2nd Level Powerhouse	Elbow Insulation Water Supply to Boilers	10% Amosite 40% Chrysotile
BH0218	Baler House Convey. Line	Hot Water Return	0%
BH0219	Baler House Convey. Line	Hot Water Return	0%
BH0220	Baler House Convey. Line	Condensate Return Line Pipe Insulation	15% Amosite 40% Chrysotile
AD0221	Adminis. Garage Area	Hanger on Pipe Insulation	Trace
MA0230	Metal Assembly	Cold Water Hanger Insul.	0%
MA0231	Metal Assembly	Hot Water Hanger Insul.	0%
PS0232	Press Shop-AF-1	Steam Line Pipe Insulation	70% Amosite

BCM

GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
PS0233	Press Shop-AF-1	Return Loop Pipe Insulation	0%
PS0234	Press Shop-AF-1	Return Loop Pipe Insulation	0%
AD0235	Administration Area, 2nd Floor Vault	Insulation on Wrap of Fiberglass Duct Insulation	60% Chrysotile
PS0236	Press Shop Roof Drain F-16	Elbow Insulation	65% Chrysotile
1999	Room 104	White Pipe Insulation	0%
1776	Room 104	Beige Pipe Insulation	0%
1972	Room 104	Beige Pipe Insulation	0%
1903	Room 104	Ceiling Tile	0%
1876	Room 102	Ceiling Tile	0%
1045	Room 108	Ceiling Tile	0%
1300	Near Room 119	Ceiling Tile	0%
1343	Near Room 119	Ceiling Tile	0%
1587	Near Room 119	Ceiling Tile	0%
1432	T&D Supv. Room	Floor Tile	2% Chrysotile
1809	Custodian Closet Next to Stairwell	Floor Tile	2% Chrysotile
1990	Lobby Employee Entrance Office Next to Hospital	Floor Tile	2% Chrysotile
1066	Employee Off.--Entr. Lob.	Floor Tile	0%
1492	Employee Off.--Entr. Lob.	Floor Tile	0%
1215	Employee Off.--Entr. Lob.	Floor Tile	0%
1892	Main Lobby	White Plaster	0%

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GENERAL MOTORS CORPORATION
BULK SAMPLE ANALYSIS RESULTS

Sample No.	Location	Material Type	% Asbestos
1660	Main Lobby	White Plaster	0%
1961	Main Lobby	White Plaster	0%
1111	Stairwell to Exit to Plant	White Plaster	0%
1732	Custodian Closet under Stairwell	White Plaster	0%
1932	Employee Office Entrance Lobby Doorway 158	Floor Tile	2% Chrysotile
1909	Employee Office Entrance Lobby Doorway 158	Floor Tile	2% Chrysotile
1918	Employee Office Entrance Lobby Doorway 158	Floor Tile	2% Chrysotile
1927	Corridor Next to Rms 133 & 131	Dust Sheeting	70% Chrysotile
1925	Next to Men's Room	Dust Sheeting	70% Chrysotile
1960	Corridor	Dust Sheeting	70% Chrysotile
1001	Room 119	Ceiling Tile	0%
1234	Room 119	Ceiling Tile	0%
1865	Room 117	Ceiling Tile	0%

No asbestos was found on mastic of floor tile samples.

BCM

7.0 REMEDIAL ACTION ALTERNATIVES

There are several options available to remediate damaged ACM. The principal options available are removal, enclosure, encapsulation/repair. Each of these alternatives is discussed briefly below.

7.1 REMOVAL

Most asbestos abatement managers believe removal of ACM is the only final and satisfactory solution to the problem of potential asbestos exposure. If properly performed with adequate protection for the workers and building occupants, removal will virtually eliminate all potential for exposure. On the other hand, removal may be a complicated task and cost substantially more than other abatement alternatives.

The first step in any removal operation involves the erection of containment barriers around the work area. These containment barriers, although temporary, are designed to prevent the release of airborne asbestos fibers during the removal activities. The work area also contains HEPA air filtration systems, which remove any generated airborne asbestos fibers and maintain the work area under differential air pressure. Removal of all types of asbestos must be initiated only after the material is wetted with amended water (a solution of water and a wetting agent) to reduce fiber release. Once the ACM is removed, it must be disposed of in leak-tight containers, typically 6-mil thick polyethylene bags, and taken to a landfill with state approval for asbestos disposal.

7.2 ENCLOSURE

Enclosure involves construction of airtight barriers ceilings around surfaces coated with ACM. Enclosures should be constructed with impact-resistant materials. Since the ACM will have to be removed when the building is remodeled or demolished, enclosure is only a temporary solution. On the other hand, carefully constructed, airtight enclosures may reduce, if not eliminate, the release of fibers within the building for its remaining life.

The initial cost of constructing enclosures is close to that of asbestos removal and disposal. Since sealing the substrate and replacing the ACM are not required, total project cost for enclosure initially may be somewhat lower, but the cost of periodic inspections and repair of enclosures for the life of the building and of asbestos removal before demolition may negate this initial cost savings.

BCM

7.3 ENCAPSULATION/REPAIR

Encapsulation/repair involves spraying the ACM with a sealant. This activity helps bind together the asbestos fibers and other material components and offers some resistance to impact damage. As with enclosures, encapsulants are, at best, a temporary control measure, and the ACM will still have to be removed before building demolition. In addition, the presence of encapsulants can make wetting and thus removing the material more difficult.

Encapsulation/repair may be as costly as removal and disposal. This is largely due to the need for work area containment and worker protection measures during sealant application. As with enclosure, no additional cost to replace the ACM is necessary. However, long-term costs are likely to be more than for removal due to continuing inspection, periodic application of the sealant, and removal of ACM before building demolition.

BCM

8.0 OPERATION AND MAINTENANCE PROGRAMS

BCM recommends that as long as asbestos is present in a building, an O & M Program should be implemented. This program, which will assure compliance with EPA and OSHA regulations, requires periodic visual inspection and documentation to assure that the ACM remains in good condition, and that any damages are repaired promptly. A separate strategy should be developed for each type of ACM (i.e., surfacing materials, pipe lagging, boiler cover, and other miscellaneous materials). A system for immediate notification and the proper documentation during emergency situations is an integral part of an O & M Program. All repair work should be conducted by maintenance or custodial personnel who have been properly trained in asbestos abatement procedures. Air monitoring, conducted by an accredited testing laboratory, should follow any incident of major damage and accompany minor removal projects. Records of all actions (inspections, repairs, removal, air testing, etc.) should be kept for both in-house reference and protection against future liabilities.

Maintenance and custodial worker training is the key to a successful O & M Program. An approved training agency should be hired to educate workers on the history and principles of asbestos use, health effects, regulations, personal and area protection principles, and practical abatement and control methods. BCM also strongly recommends that anyone involved in an O & M Program read and understand EPA 560/5-85-024, Guidance for Controlling Asbestos-Containing Materials in Building (particularly Chapter 3, "Establishing a Special Operations and Maintenance O & M Program"), and 29 CFR Parts 1920 and 1926, OSHA Asbestos Standard for General Industry and OSHA Asbestos Standard for Construction Industry, respectively.

BCM

9.0 RECOMMENDATIONS

9.1 GENERAL RECOMMENDATIONS

It is usually recommended that ACM be removed by a competent asbestos removal contractor in order to minimize liabilities with respect to exposure; but because of high costs and relocation problems associated with this activity, this solution is rarely feasible to do a full scale operation. Therefore, an asbestos abatement program should be initiated to phase the removal of damaged asbestos as funds become available. Until the time that the damaged asbestos can be removed, there are several steps that GM can undertake to prevent unnecessary fiber release.

- Have people on staff trained in proper small-scale, short duration removal techniques in cases of emergency repair (i.e., broken pipes, changing valves, etc.);
- Train all maintenance personnel in the proper handling and maintenance of ACM;
- Encapsulate all exposed ends and tears in insulation covering;
- Purchase a vacuum with a High Efficiency Particulate Absolute (HEPA) filter to clean up any asbestos debris or dust;
- Purchase of 6-mil thick labelled asbestos disposal bags to contain and store any asbestos removed in-house until a load is taken to an approved landfill (note DOT requirements under NESHAPS);
- Do not use power tools when working with transite board or any ACM. Use a vacuum with a HEPA filter to clean all dust produced;
- Code any new reinsulation (other than fiberglass) by tagging or painting so that it will not be confused with ACM; and
- Inform all employees of the location of ACM in order to limit any future liabilities or damage.

9.2 SPECIFIC RECOMMENDATIONS

9.2.1 Press Room and Metal Assembly

At a minimum, BCM recommends the removal of approximately 300 linear feet of ACPI and the encapsulation/repair of an additional 100 linear feet of ACPI in these areas. Specific locations and quantities of ACPI requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

9.2.2 Administration Offices & Mezzanine Level

At a minimum, BCM recommends the removal of approximately 10 linear feet of ACPI and the encapsulation/repair of an additional 10 linear feet of ACPI in these areas. Specific locations and quantities of ACPI requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

BCM recommends the removal of all asbestos-containing dust sheeting which is located above the suspended ceiling in these areas. BCM also recommends the removal or decontamination of asbestos-contaminated ceiling tile in these areas. It is recommended that the transite board be encapsulated in areas where it has been cut or damaged.

9.2.3 Roof Substations and Roof Mechanical Rooms

At a minimum, BCM recommends the removal of approximately 30 linear feet of ACPI and the encapsulation/repair of an additional 20 linear feet of ACPI in these areas. Specific locations and quantities of ACPI requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

9.2.4 Waste Treatment Complex

At a minimum, BCM recommends the removal of approximately 15 linear feet of ACPI and the encapsulation/repair of an additional 10 linear feet of ACPI in this area. Specific locations and quantities of ACPI requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

9.2.5 Baler House Building and Scrap Conveyor

At a minimum, BCM recommends the removal of approximately 300 linear feet of ACPI and the encapsulation/repair of an additional 50 linear feet of ACPI in these areas. Specific locations and quantities of ACPI requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

9.2.6 Powerhouse Building (Including Ash Silo & Trestle) & Cooling Tower

At a minimum, BCM recommends the removal of approximately 200 linear feet of ACPI and the encapsulation/repair of an additional 600 linear feet of ACPI in these areas. BCM also recommends the encapsulation/repair of approximately 400 square feet of boiler and tank insulation in these areas. Specific locations and quantities of ACPI and boiler/tank insulation requiring remedial action are summarized in Table 2.

It is recommended that any exposed ends or tears on ACPI be repaired/ encapsulated.

BCM

TABLE 2

ACM RESPONSE ACTIONS

Area	Location	System	Action	Amount (LF or SF)
Press Room	K3	CW	Remove	3 LF
	C11	CW	Remove	5 LF
	D11	CW	Remove	3 LF
	Rest Room No. 2	CW	Remove	25 LF
	E21-C21	CW	Remove	180 LF
	D25	CW	Remove	3 LF
	E25	CW	Remove	10 LF
	024-029	25 psi 175 psi	Remove	Debris on Roof
	Rest Room No. 1		Remove	10 LF
	A3	RD	Repair/Encapsulate	1 LF
	E3-G3	CW	Repair/Encapsulate	10 LF
	Rest Room No. 3	CW	Repair/Encapsulate	3 LF
	Rest Room No. 4	CW	Repair/Encapsulate	4 LF
	Rest Room No. 2	CW	Repair/Encapsulate	2 LF
	024-029	175 psi	Repair/Encapsulate	20 LF
	024-029	CW	Repair/Encapsulate	4 LF
	Rest Room No. 1	CW	Repair/Encapsulate	6 LF
Metal Assembly	Y10	CW	Remove	20 LF
	017	Δp Station	Remove	10 LF
	Z10	25 psi	Repair/Encapsulate	1 LF
	Rest Room No. 6	CW	Repair/Encapsulate	10 LF
	ZZ11	25 psi	Repair/Encapsulate	2 LF
	Z17	25 psi	Repair/Encapsulate	5 LF
	W17	25 psi	Repair/Encapsulate	5 LF
	Rest Room No. 7	CW	Repair/Encapsulate	5 LF
	ZZ22	25 psi	Repair/Encapsulate	2 LF
	ZZ30	25 psi	Repair/Encapsulate	2 LF
	017	Δp Station	Repair/Encapsulate	6 LF
	P17	25 psi	Repair/Encapsulate	2 LF
	W23	25 psi	Repair/Encapsulate	1 LF
Administration	Corridor by Kitchen	25 psi	Remove	10 LF
	Room 388	CW	Repair/Encapsulate	5 LF
	Records Vault	25 psi	Repair/Encapsulate	2 LF
Substations	Substation H	Heat Exchanger	Remove	20 LF
	Substation E	Heat Exchanger	Remove	10 LF
	Substation J	Heat Exchanger	Repair/Encapsulate	10 LF
	Substation J	CW	Repair/Encapsulate	3 LF
	Substation J	25 psi	Repair/Encapsulate	4 LF

T = Trap

BCM

ACM RESPONSE ACTIONS

Area	Location	System	Action	Amount (LF or SF)(1)
Waste Treatment		Northwest Corner		25 psi
Remove	6 LF			
	Retention Tank	Condensate	Remove	6 LF
	North Corner	CW	Repair/Encapsulate	1 LF
	North Corner	Condensate	Repair/Encapsulate	9 LF
Baler House		175 psi	Remove	110 LF
	Incline	25 psi	Remove	180 LF
	South Wall	25 psi	Remove	3 LF
	Northwest Corner	25 psi	Remove	6 LF
		25 psi	Repair/Encapsulate	25 LF
	Incline	175 psi	Repair/Encapsulate	
	North Wall	CW	Repair/Encapsulate	10 LF
Power House	Scale Platform D2	175 psi	Remove	55 LF
	Basement	175 psi	Remove	15 LF
		Booster Pumps		
		T1	Remove	5 LF
		T4	Remove	3 LF
		T6	Remove	6 LF
		T11	Remove	2 LF
		T16	Remove	5 LF
		T17	Remove	4 LF
		T20	Remove	6 LF
		T28	Remove	3 LF
		T29	Remove	5 LF
		T31-T34	Remove	25 LF
		T37-T40	Remove	27 LF
		T45	Remove	8 LF
	Bunker	25 psi	Repair/Encapsulate	5 LF
		RD	Repair/Encapsulate	1 LF
		Blow-Off	Repair/Encapsulate	1 LF
	Scale Platform	25 psi	Repair/Encapsulate	40 LF
		175 psi	Repair/Encapsulate	15 LF
	Top of Boilers	Boiler Insul.	Repair/Encapsulate	300 SF
		25 psi	Repair/Encapsulate	5 LF
	Second Level	Boiler Insul.	Repair/Encapsulate	50 SF

(1) LF = Linear Feet; SF = Square Feet
(2) CW = Cold Water
(3) RD = Roof Drain
(4) T = Trap

BCM

ACM RESPONSE ACTIONS

Area	Location	System	Action	Amount (LF or SF)
	Fan & Stack	Insulation	Repair/Encapsulate	25 SF
		25 psi	Repair/Encapsulate	20 LF
	Pump Room Main Floor	25 psi	Repair/Encapsulate	6 LF
		Boiler Insul.	Repair/Encapsulate	30 SF
		25 psi	Repair/Encapsulate	20 LF
		Water Softener Water Soft Tank	Repair/Encapsulate	5 SF
		Old Cooling Tower Line	Repair/Encapsulate	1 LF

BCM

ACM RESPONSE ACTIONS

Area	Location	System	Action	Amount
	Basement	Hot H_2O Tanks	Repair/Encapsulate	10 SF
		CW	Repair/Encapsulate	25 LF
		Anthrofilt Tanks	Repair/Encapsulate	10 LF
		Drain Line	Repair/Encapsulate	1 LF
		175 psi	Repair/Encapsulate	
		25 psi	Repair/Encapsulate	
	Ash Silo	25 psi	Repair/Encapsulate	10 LF
	Trestle	25 psi	Repair/Encapsulate	20 LF
		175 psi	Repair/Encapsulate	15 LF
	Basement	T2	Repair/Encapsulate	4 LF
		T3	Repair/Encapsulate	4 LF
		T5	Repair/Encapsulate	4 LF
		T7	Repair/Encapsulate	2 LF
		T9	Repair/Encapsulate	2 LF
		T10	Repair/Encapsulate	2 LF
		T12	Repair/Encapsulate	5 LF
		T15	Repair/Encapsulate	2 LF
		T18	Repair/Encapsulate	2 LF
		T19	Repair/Encapsulate	4 LF
		T21	Repair/Encapsulate	6 LF
		T24	Repair/Encapsulate	4 LF
		T25	Repair/Encapsulate	1 LF
		T26	Repair/Encapsulate	3 LF
		T27	Repair/Encapsulate	4 LF
		T30	Repair/Encapsulate	5 LF
		T35	Repair/Encapsulate	1 LF
		T36	Repair/Encapsulate	6 LF
		T41-T42	Repair/Encapsulate	5 LF
		T46	Repair/Encapsulate	3 LF
		T47	Repair/Encapsulate	3 LF
		Blow Down Heat XR	Repair/Encapsulate	2 LF
	Near Blow-Off Tank	175 psi	Remove	2 LF
		175 psi	Repair/Encapsulate	2 LF
	A1-A2	CW	Repair/Encapsulate	2 LF

(1) LF = Linear Feet; SF = Square Feet
(2) CW = Cold Water
(4) T = Trap

BCM

TABLE 3

REMOVAL COST ESTIMATES

Area	Material	Quantity	Est. Cost of Removal
Press Room and Metal Assembly	ACPI	26,000 LF	$640,965
	Non-Asbestos Insul. w/Asbestos Fittings	41,000 LF	139,200
Administration Offices and Messanine level	ACPI	2,000 LF	18,000
	Non-Asbestos Fittings	12,000 LF	11,400
	VAT	61,500 SF	246,000
	Dust Sheeting	26,000 SF	234,000
	Transite	22,000 SF	154,000
Plant Security	ACPI	300 LF	2,700
	Non-Asbestos Fittings	450 LF	425
	VAT	3,000 SF	12,000
Roof Sub-stations	ACPI	200 LF	1,800
	Non-Asbestos Fittings	700 LF	675
Roof Cooling Tower	Transite	2,700 SF	15,900
Waste Treatment	ACPI	100 LF	900
	Non-Asbestos Fittings	80 LF	300
Baler House	ACPI	1,700 LF	65,025
	Non-Asbestos Fittings	1,200 LF	2,440

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TABLE 3 (CONT.)

REMOVAL COST ESTIMATES

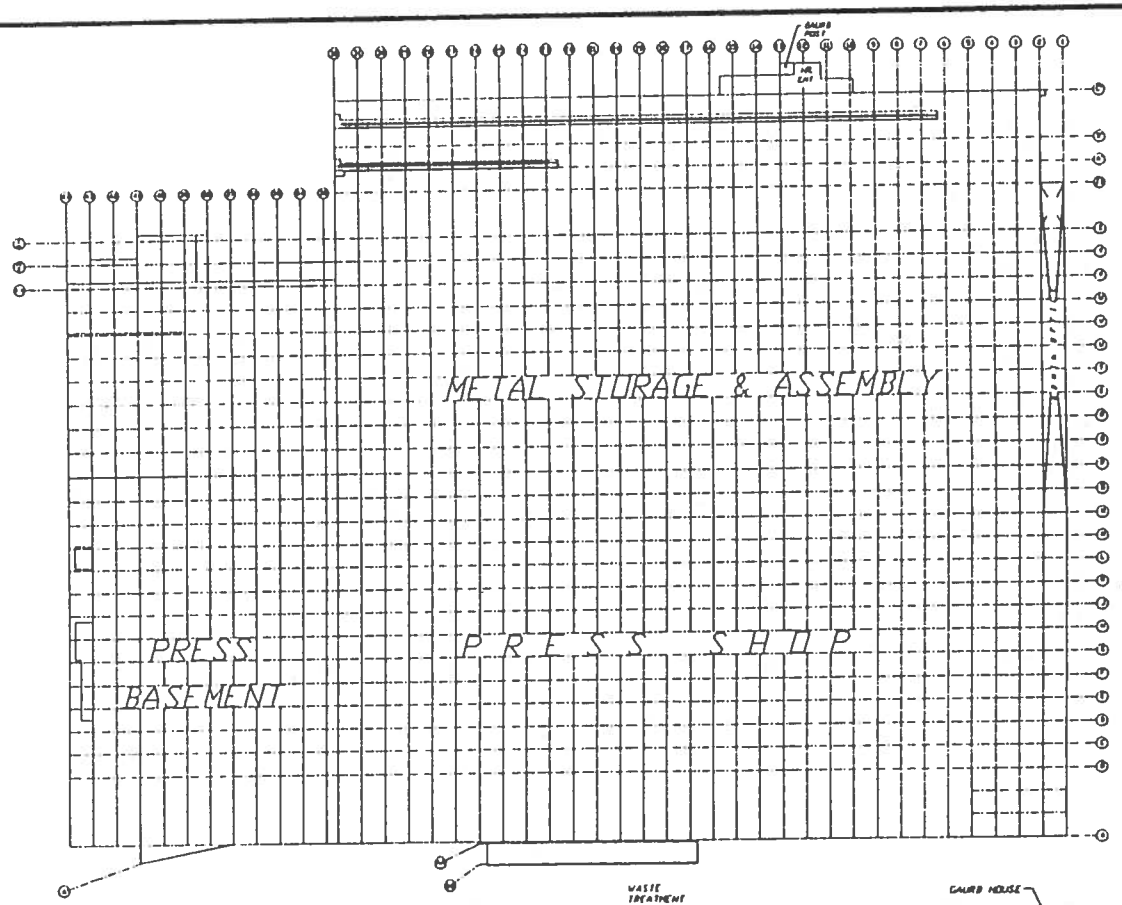
Area	Material	Quantity	Est. Cost of Removal
Powerhouse	ACPI	5,000 LF	89,700
	Non-Asbestos Fittings	2,500 LF	19,840
	Boiler and Tank Insul.	13,250 LF	291,500
	Transite	750 SF	5,250
Original Switch House	Electrical Insul.	400 LF	2,000

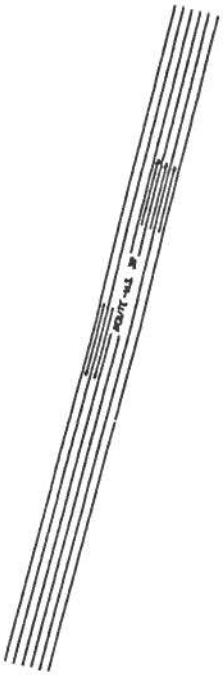
Assumptions:

1. The fittings on non-asbestos lines were assumed to be every 20 LF except the waste treatment and the Power House (every 5 LF).

2. These costs do not include the cost of engineering design and managemer air monitoring, or the owner's administrative and financing costs.

3. Estimates do not allow for inflation.

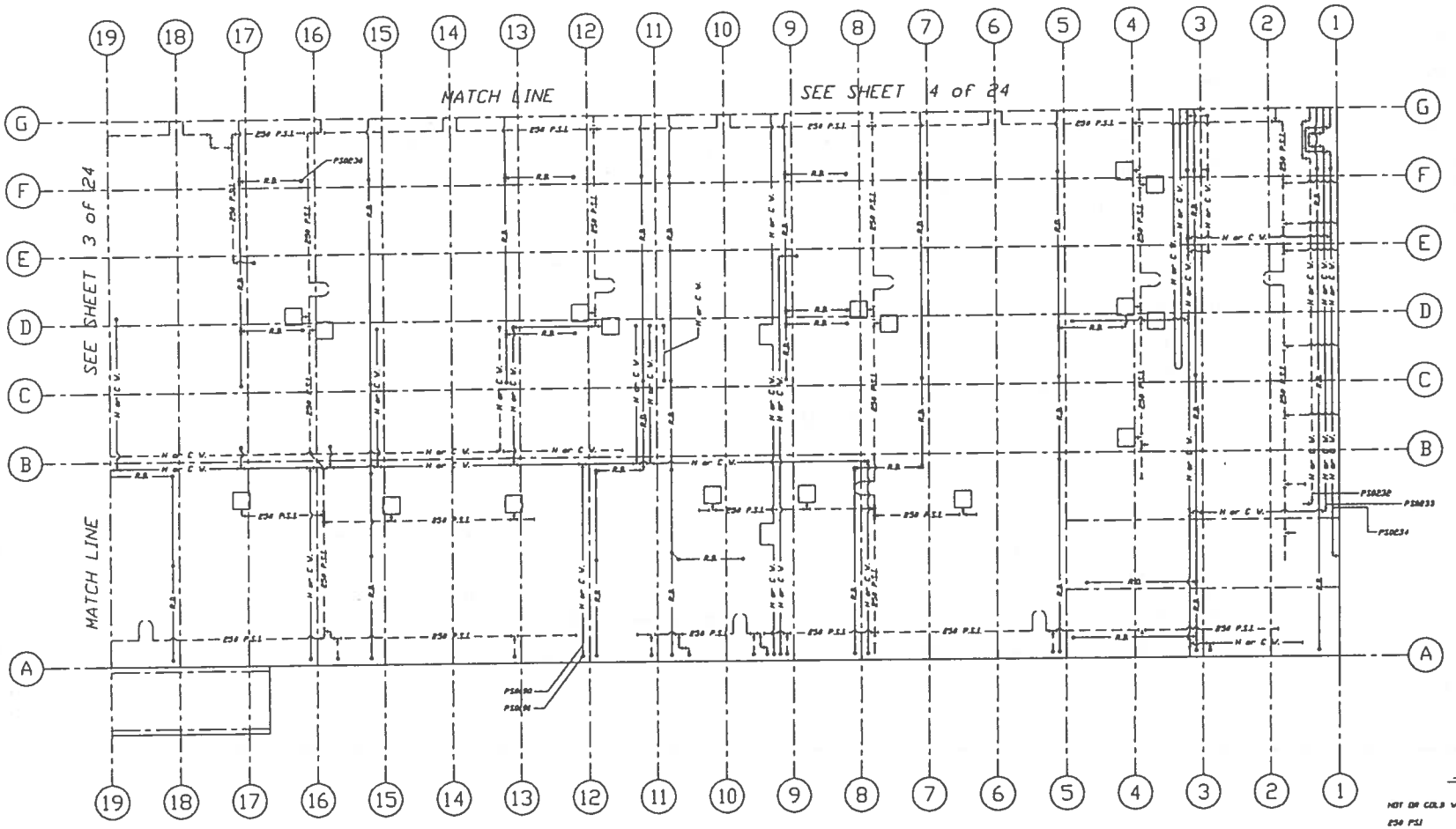




BCM ENGINEERS, PLANNERS and SCIENTISTS

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD

MANSFIELD OHIO PLANT



NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

LEGEND

HOT OR COLD WATER	= H OR C W
250 PSI	= (250 PSI)
ROOF DRAINS	= (R.D.)
RISERS	= ●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	= ———
POSITIVE (ASBESTOS PIPE)	= — — — — —

PRESS SHOP PLAN

1"=30'

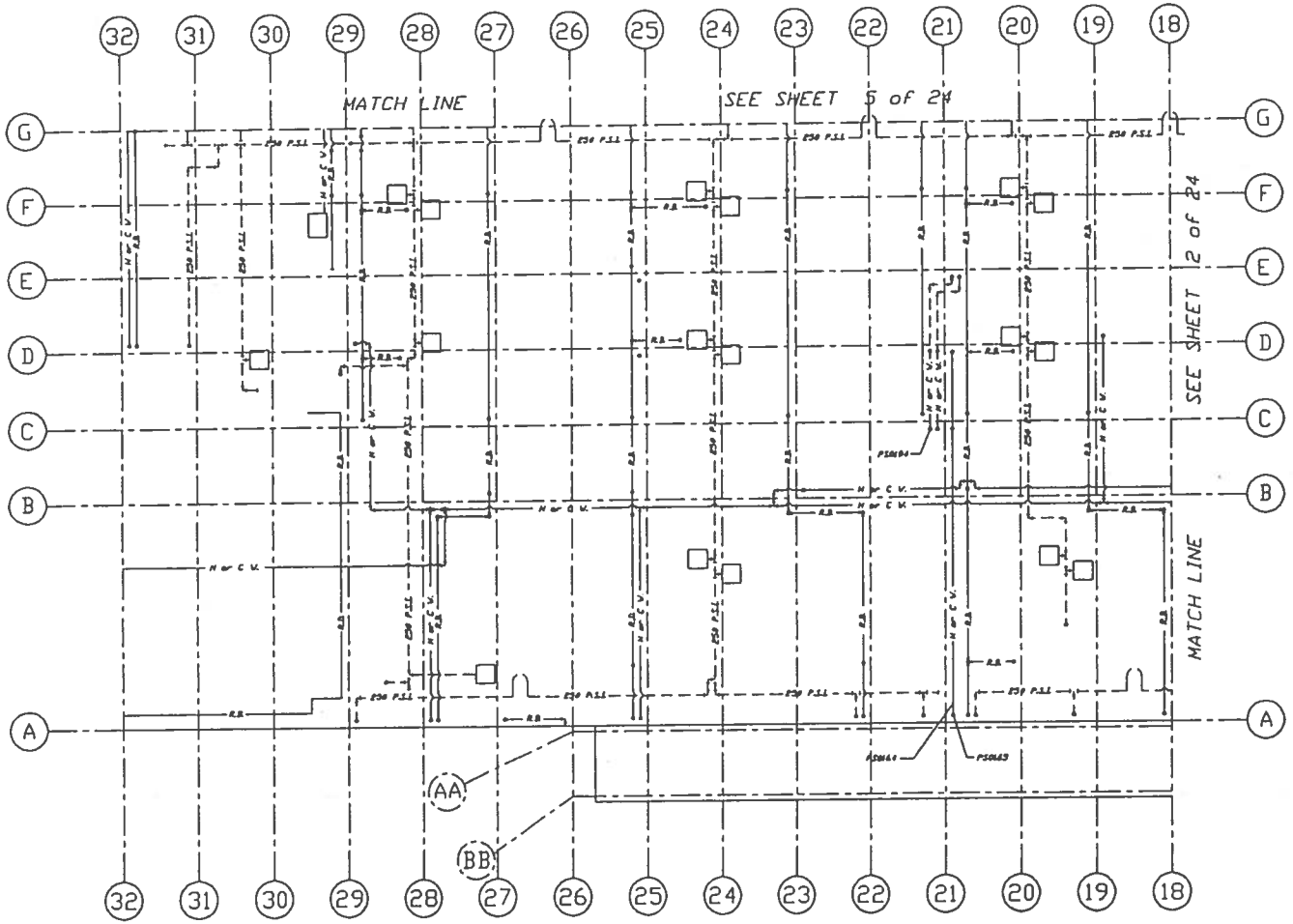
BCM ENGINEERS, PLANNERS and SCIENTISTS

DESIGN ENGR.
DRAWN BY CHRISTOPHER J. SCHOEN
PROJECT ENGR.
PROJECT MGR.
CHK.

APPROVED
APPROVED
1980

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
SS SHOP
PLAN

SCALE 1" = 30'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-3
SHEET 3



PRESS SHOP PLAN

1"=30'

NOTE:

SEE TYPICAL ASBESTOS CLADDING DETAIL, SHEET 13 OF 25

LEGEND

HOT OR COLD WATER	H OR C W
250 PSI	250 PSI
ROOF DRAINS	RD
RISERS	●
NEGATIVE DRAIN ASBESTOS PIPE W/ ASBESTOS FITTINGS	———
POSITIVE (ASBESTOS PIPE)	— — — — —

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DESIGN ENGR. APPROVED

DRAWN BY CHRISTOPHER J. BOWEN

PROJECT ENGR. APPROVED

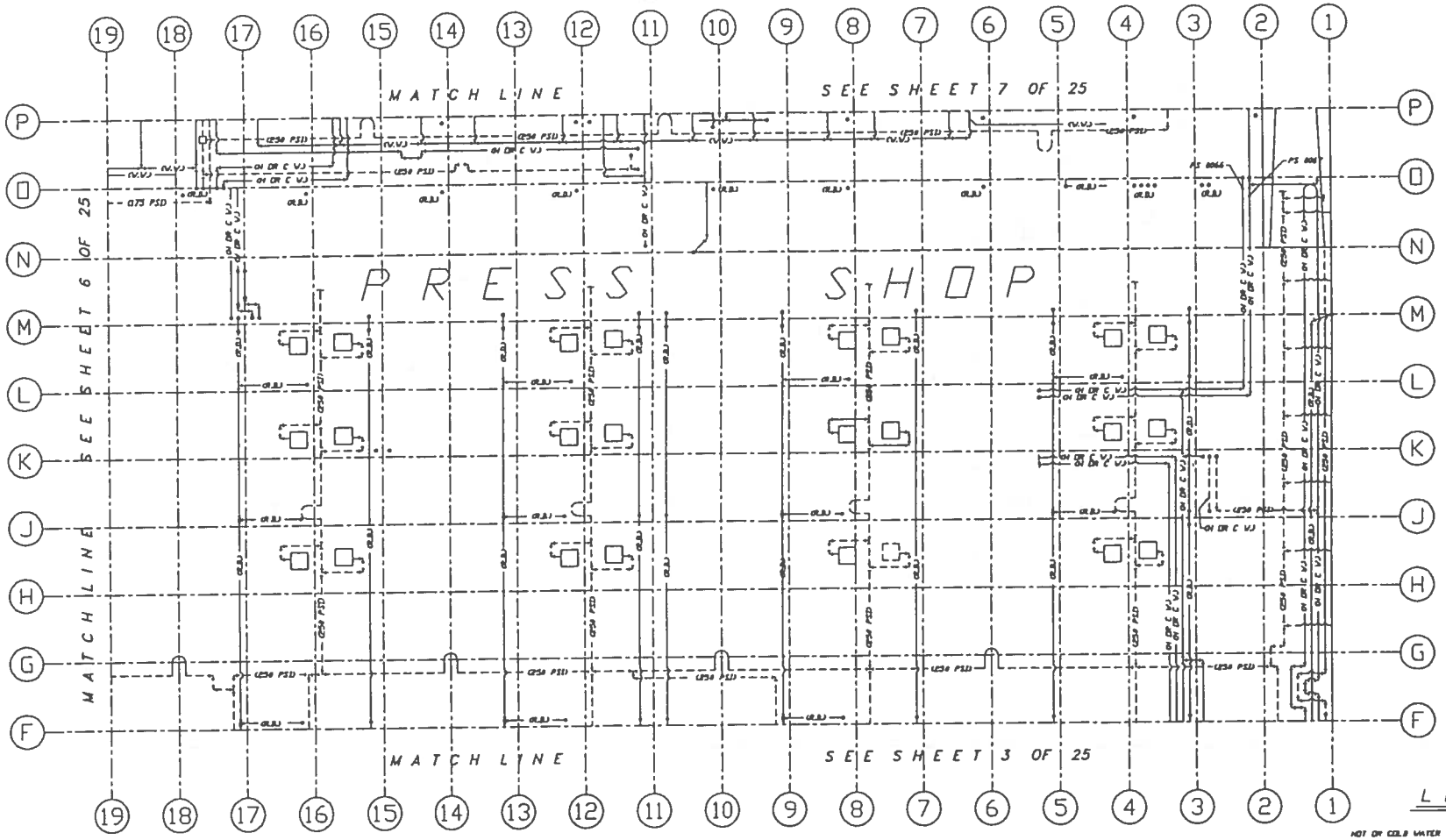
PROJECT MGR.

SEAL

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
PRESS SHOP

SCALE 1"=30'
PROJECT NO. 07-6384-03
DRAWING NO. 07-6334-02-4
SHEET 4 OF 25



NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

LEGEND

HOT OR COLD WATER	= (H OR C W)
250 PSI	= (250 PSI)
ROOF DRAINS	= (R.D.)
WELDED WATER	= (W.W.)
RISERS	= ●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	= ———
POSITIVE (ASBESTOS PIPE)	= - - - - -

PRESS SHOP PLAN

BCM ENGINEERS, PLANNERS and SCIENTISTS

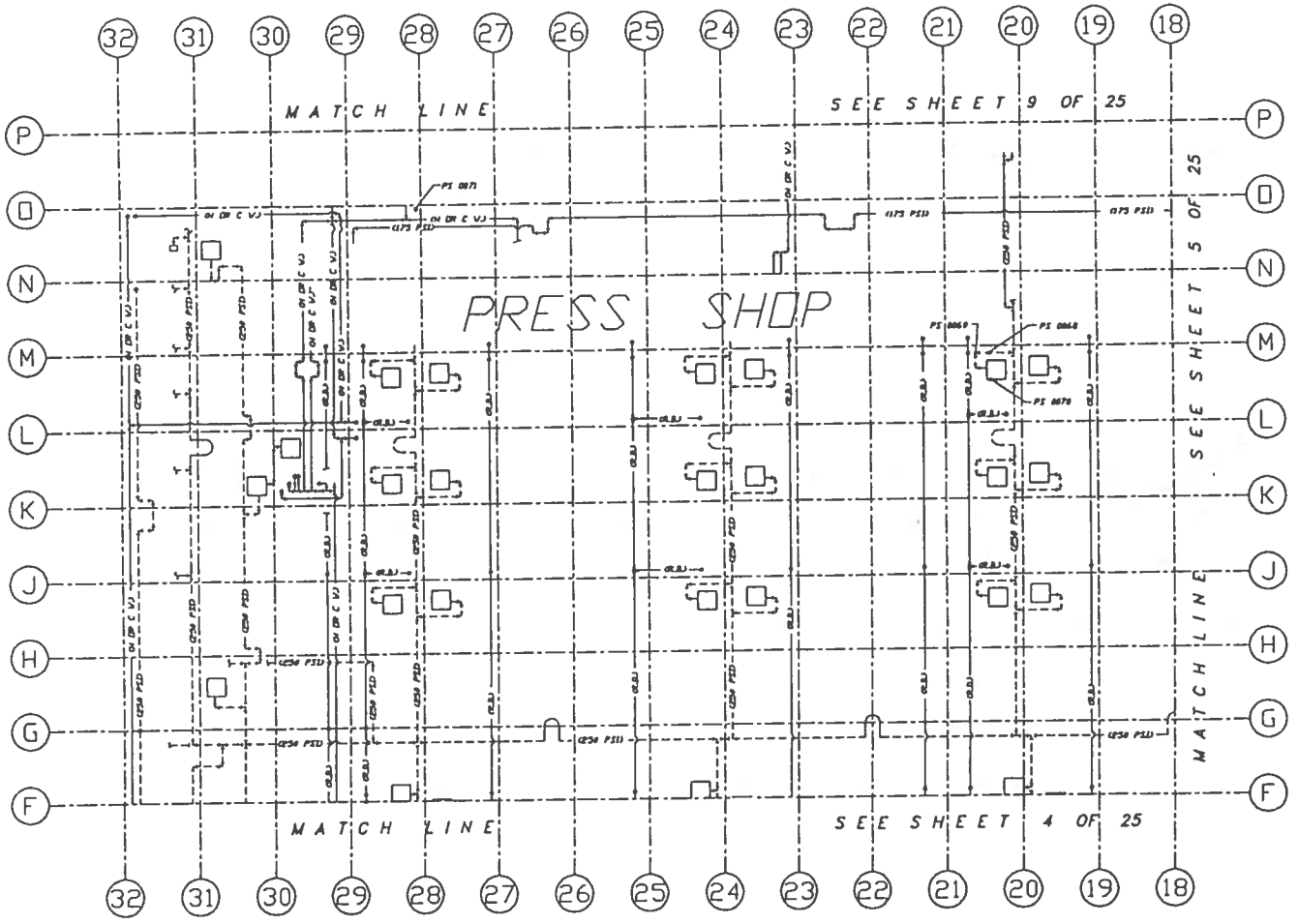
DESIGN ENGR.
DRAWN BY A.F.M.
PROJECT ENGR.
PROJECT MGR.
APPROVED
APPROVED
LEAD

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
PRESS SHOP
PLAN

SCALE: 1"=30'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-5
SHEET 5

1990



LEGEND

- HOT OR COLD WATER — H OR C VJ
- 250 PSI — 250 PSID
- ROOF DRAINS — RDJ
- RISERS — ●
- NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS) — ——
- POSITIVE (ASBESTOS PIPE) — - - - -

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

PRESS SHOP PLAN

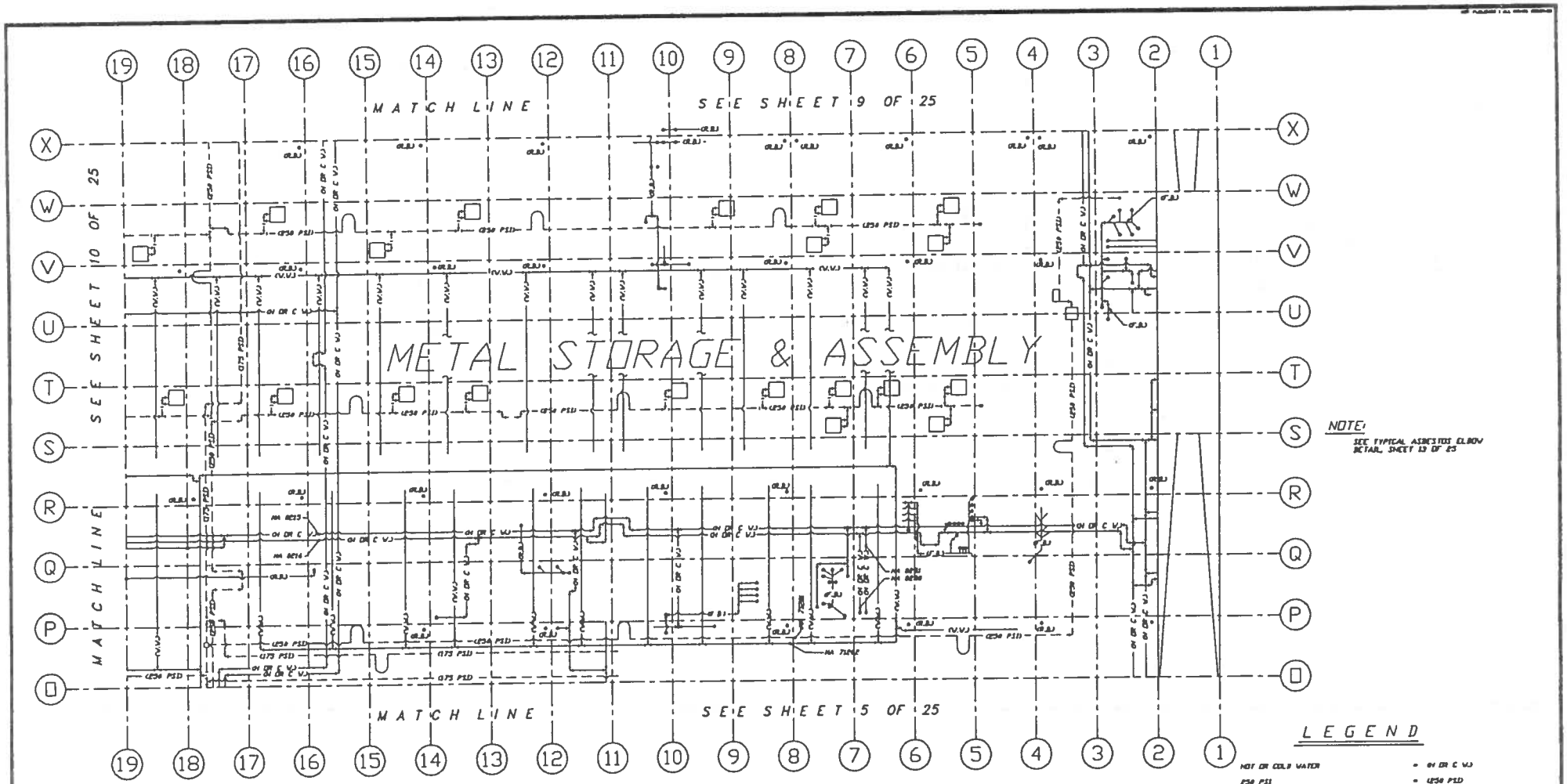
BCM ENGINEERS, PLANNERS and SCIENTISTS

DESIGN ENGR.	APPROVED	SCALE
DRAWN BY A.J.M.		
PROJECT ENGR.	APPROVED	
PROJECT MGR.		

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
PRESS SHOP

SCALE 1" = 16'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6364-01-6
SHEET



METAL STORAGE & ASSEMBLY PLAN

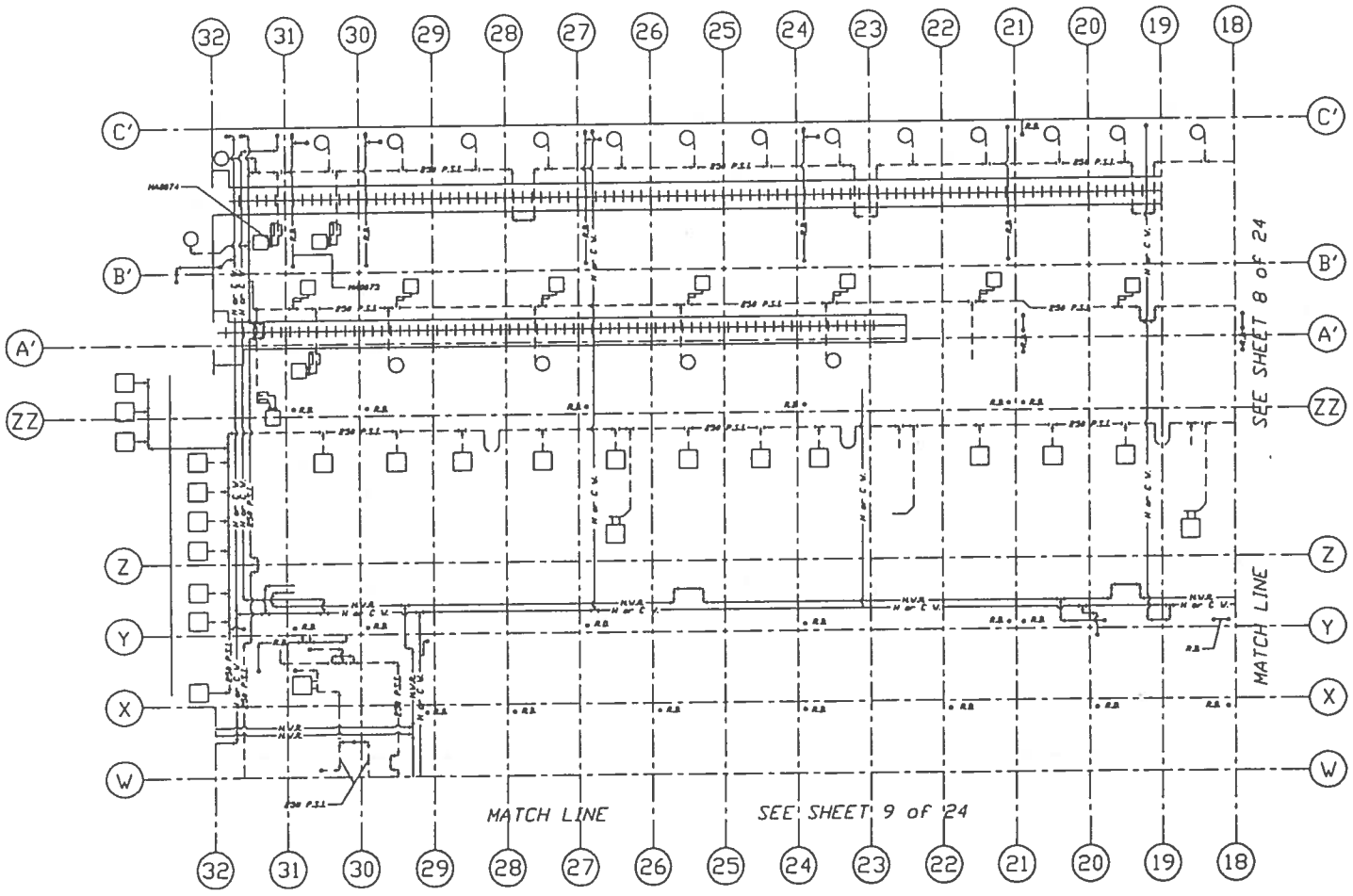
BCM ENGINEERS, PLANNERS and SCIENTISTS

DESIGN ENGR.
DRAWN BY A.F.M.
PROJECT ENGR.
PROJECT MGR.
APPROVED
APPROVED
SEAL

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
METAL STORAGE AND ASSEMBLY PLAN

SCALE 1" = 30'
PROJECT NO. 87-6364-03
DRAWING NO. 87-6364-02-7
SHEET 7



METAL STORAGE & ASSEMBLY

1"=30'

NOTE:

SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 23

LEGEND

HOT OR COLD WATER	4" OR C.V.J.
250 PSI	@250 PSI
ROOF DRAINS	(R.D.)
HOT WATER RETURN	H.W.R.
RISERS	●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	———
POSITIVE (ASBESTOS PIPE)	- - - - -

BCM ENGINEERS, PLANNERS and SCIENTISTS

5777 New Real Pittsburgh PA 15206 One Plymouth Meeting Plymouth Meeting, PA 19462

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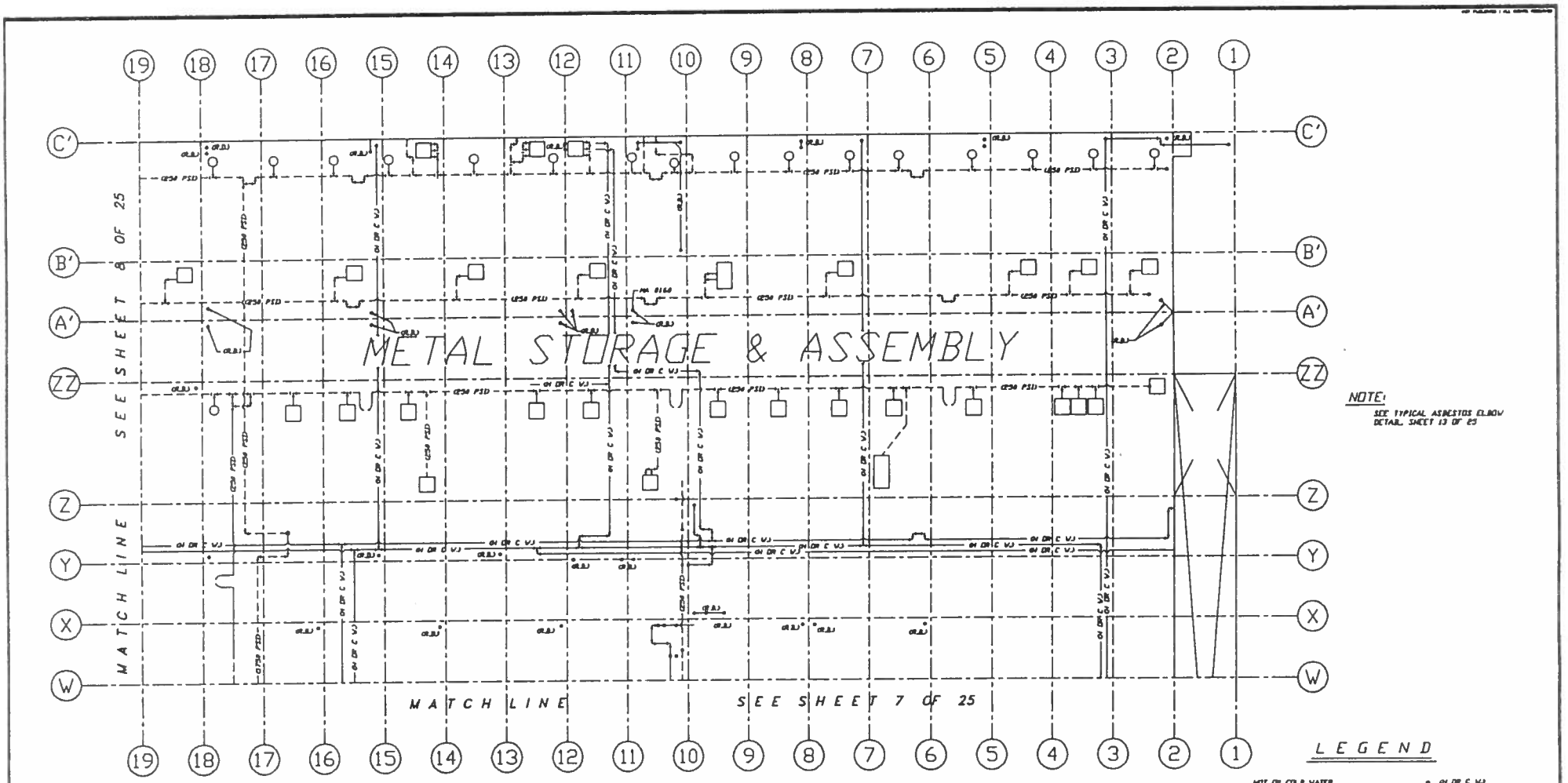
DRAWN BY CHRISTOPHER J. BOWEN	
PROJECT CHK.	APPROVED
PROJECT MGR.	
CHECKED BY	DATE

SCALE

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
METAL STORAGE & ASSEMBLY
PLAN

SCALE	1"=30'
PROJECT NO.	07-6354-02
DRAWING NO.	07-6354-02-8
SHEET	8 OF 23



METAL STORAGE & ASSEMBLY PLAN

BCM ENGINEERS, PLANNERS and SCIENTISTS

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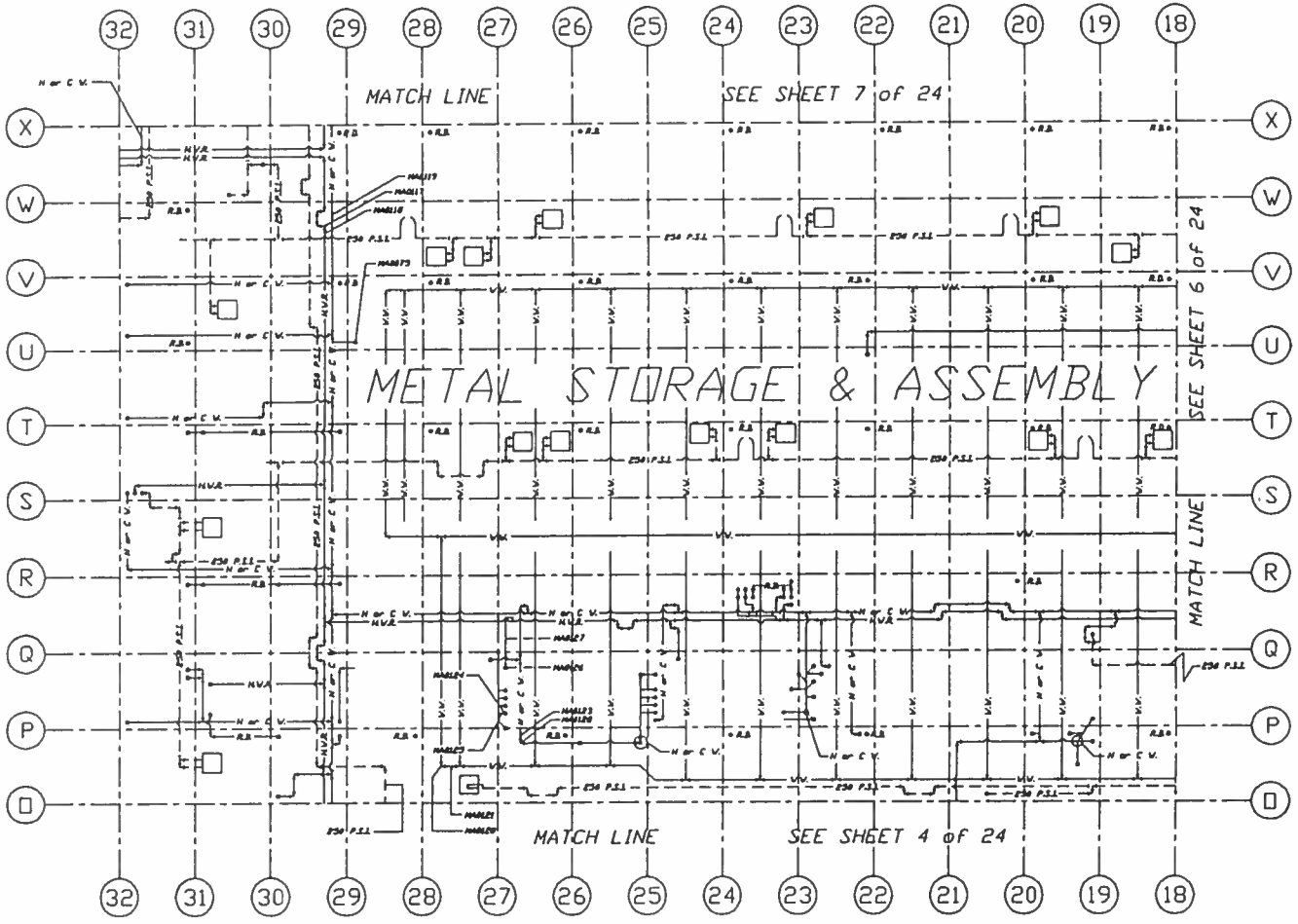
DRAWN BY A.J.M.
PROJECT ENGR.
PROJECT MGR.
CHK.
APPROVED
APPROVED
1990

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
METAL STORAGE AND ASSEMBLY PLAN

SCALE 1" = 30'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6364-02-9
SHEET 9



METAL STORAGE & ASSEMBLY

1"=30'

NOTE:

SEE TYPICAL ASBESTOS ELBOW DETAIL SHEET 13 OF 23

LEGEND

HOT OR COLD WATER	= H or C.W.
250 PSI	= (250 PSI)
ROOF BRACING	= (R.B.)
VELDER WATER	= (V.V.)
RISERS	= ●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	= ———
POSITIVE (ASBESTOS PIPE)	= – – – – –

BCM ENGINEERS, PLANNERS and SCIENTISTS

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DESIGN ENGR. APPROVED

DRAWN BY CHRISTOPHER J SCHEIN

PROJECT ENGR. APPROVED

PROJECT MGR.

CHECKED BY DATE NOV 1988

REVISIONS

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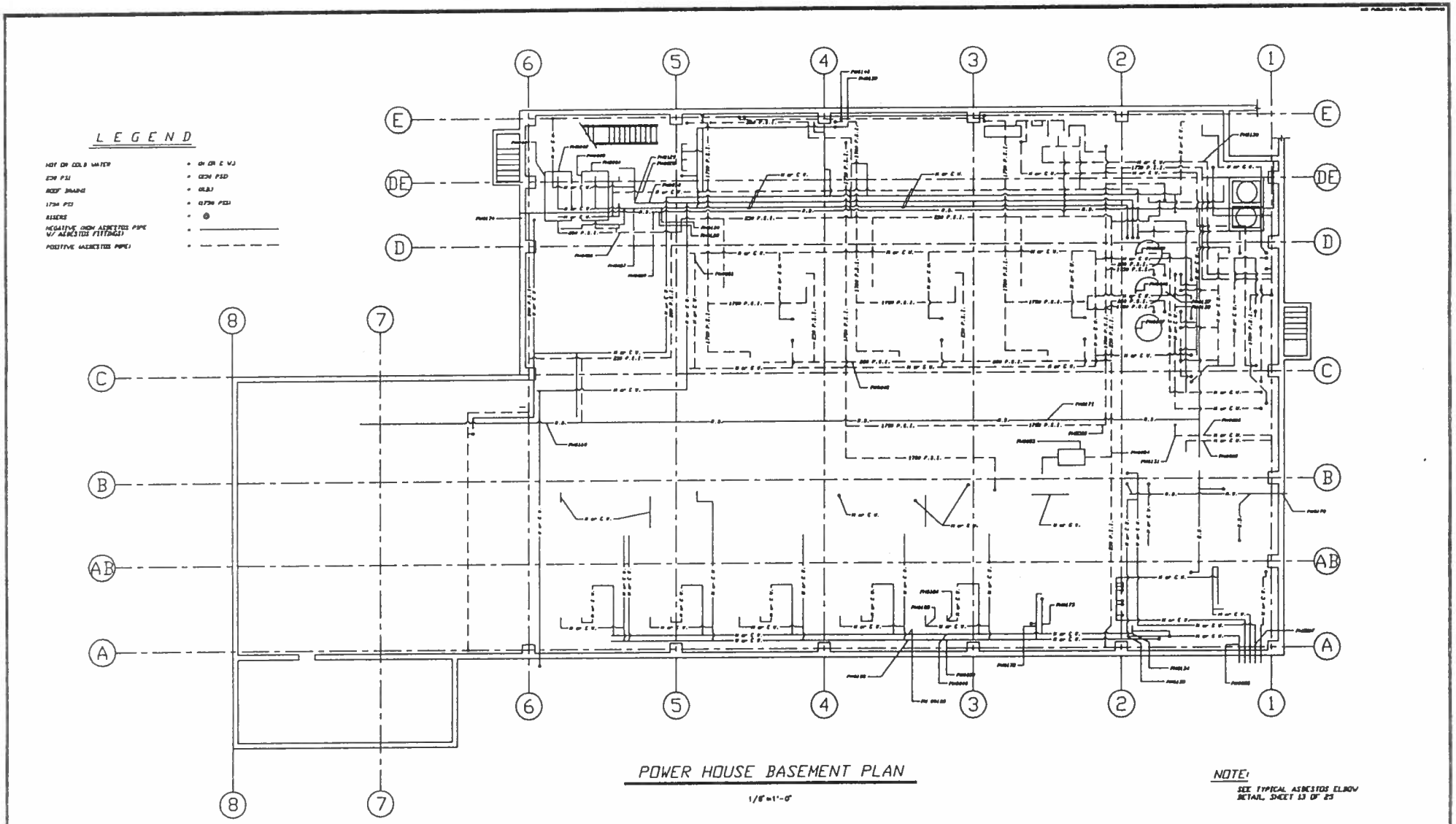
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
METAL STORAGE & ASSEMBLY PLAN

SCALE 1" = 30'
PROJECT NO. 07-8384-03
DRAWING NO. 07-8354-02-10
SHEET 10 OF 25



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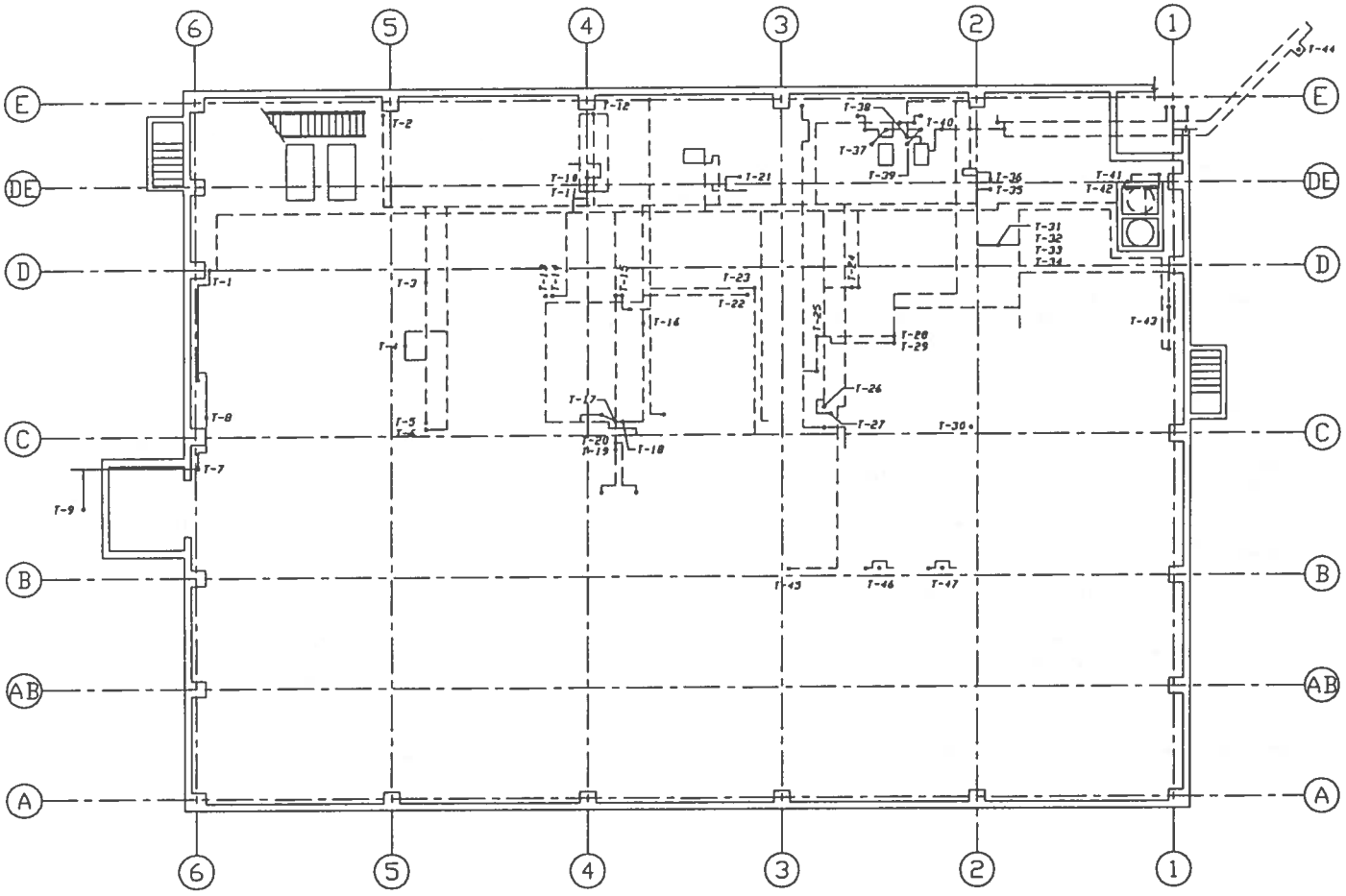
GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
POWER HOUSE BASEMENT PLAN

SCALE: 1/8"=1'-0"
PROJECT NO. 07-6384-03
DRAWING NO. 07-6354-03-11
SHEET 11



POWER HOUSE BASEMENT TRAPS PLAN

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

LEGEND

25# PSI	= (25# PSI)
175# PSI	= (175# PSI)
RISERS	= ●
TRAPS	= ○
POSITIVE (ASBESTOS PIPE)	= ———

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PROJECT CHGR. APPROVED
PROJECT MGR.

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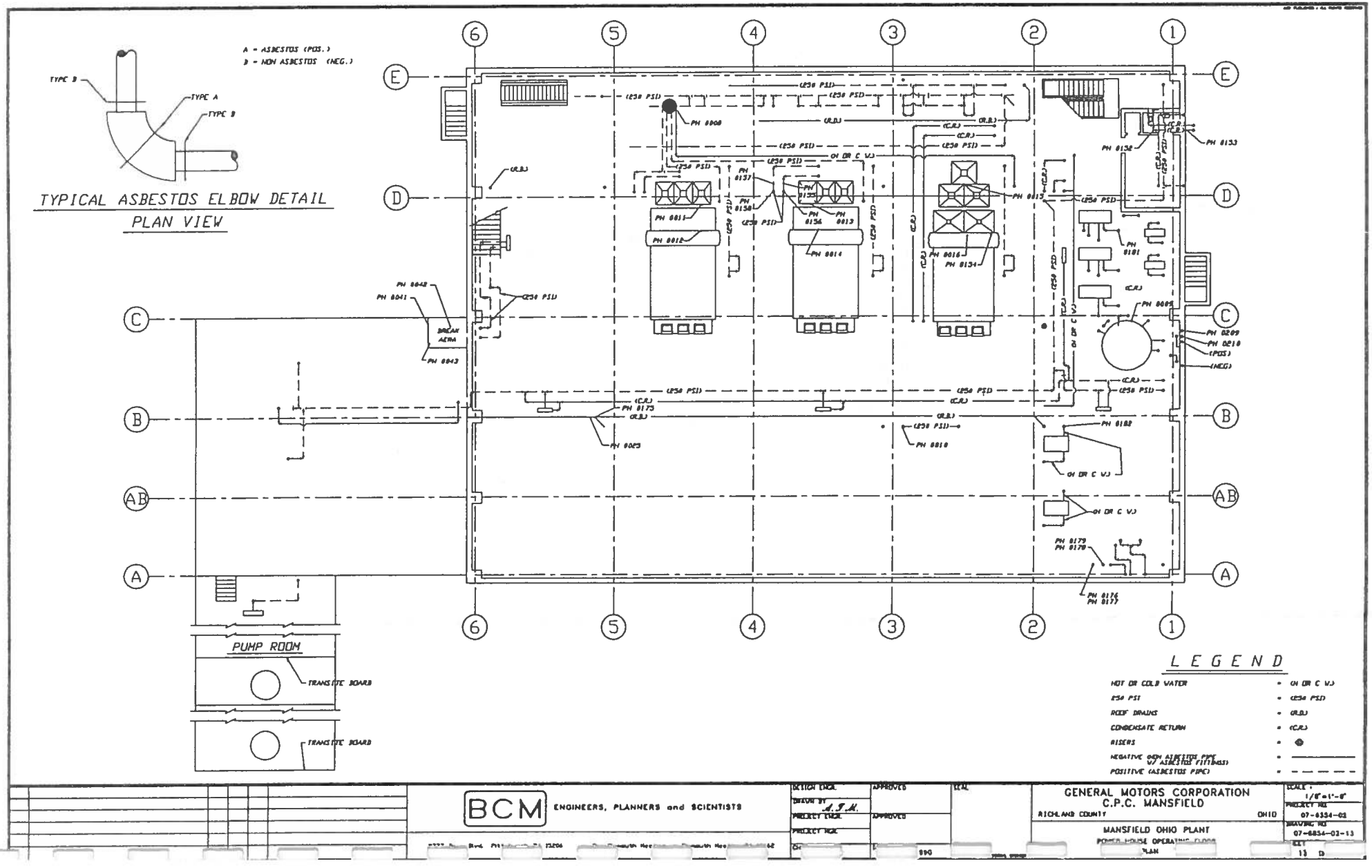
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
POWER HOUSE TRAPS

SCALE: 1/8"=1'-0"
PROJECT NO. 87-8354-02
DRAWING NO. 87-8354-02-12
SHEET


A = ASBESTOS (POS.)
B = NON ASBESTOS (NEG.)
TYPE B
TYPE A
TYPE B
TYPICAL ASBESTOS ELBOW DETAIL
PLAN VIEW
PUMP ROOM
TRANSITE BOARD
TRANSITE BOARD
LEGEND
HOT OR COLD WATER - OH OR C V.J
250 PSI - (250 PSI)
ROOF DRAINS - (R.D.)
CONDENSATE RETURN - (C.R.)
RISERS
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)
POSITIVE (ASBESTOS PIPE)
BCM ENGINEERS, PLANNERS and SCIENTISTS
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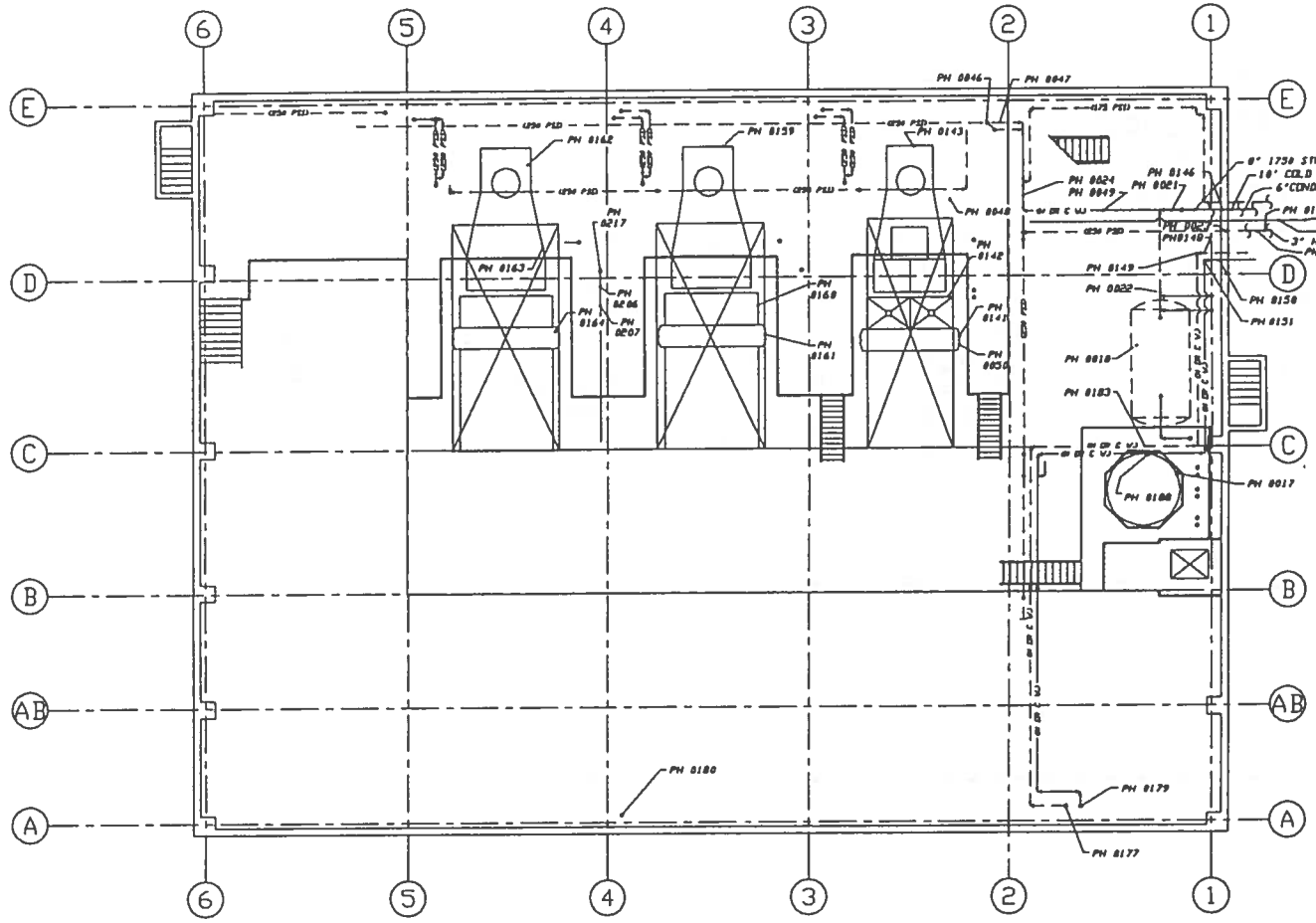
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
POWER HOUSE OPERATING FLOOR PLAN
SCALE : 1/8"=1'-0"
PROJECT NO. 07-6354-02
DRAWING NO. 07-6854-02-13
SHT 13 D



LEGEND

HOT OR COLD WATER	- HW OR C W.I.
250 PSI	- 250 PSI
1750 PSI	- 1750 PSI
BLEEDS	-
NEGATIVE GRDN ASBESTOS PIPE W/ ASBESTOS FITTINGS	-
POSITIVE ASBESTOS PIPE	-

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

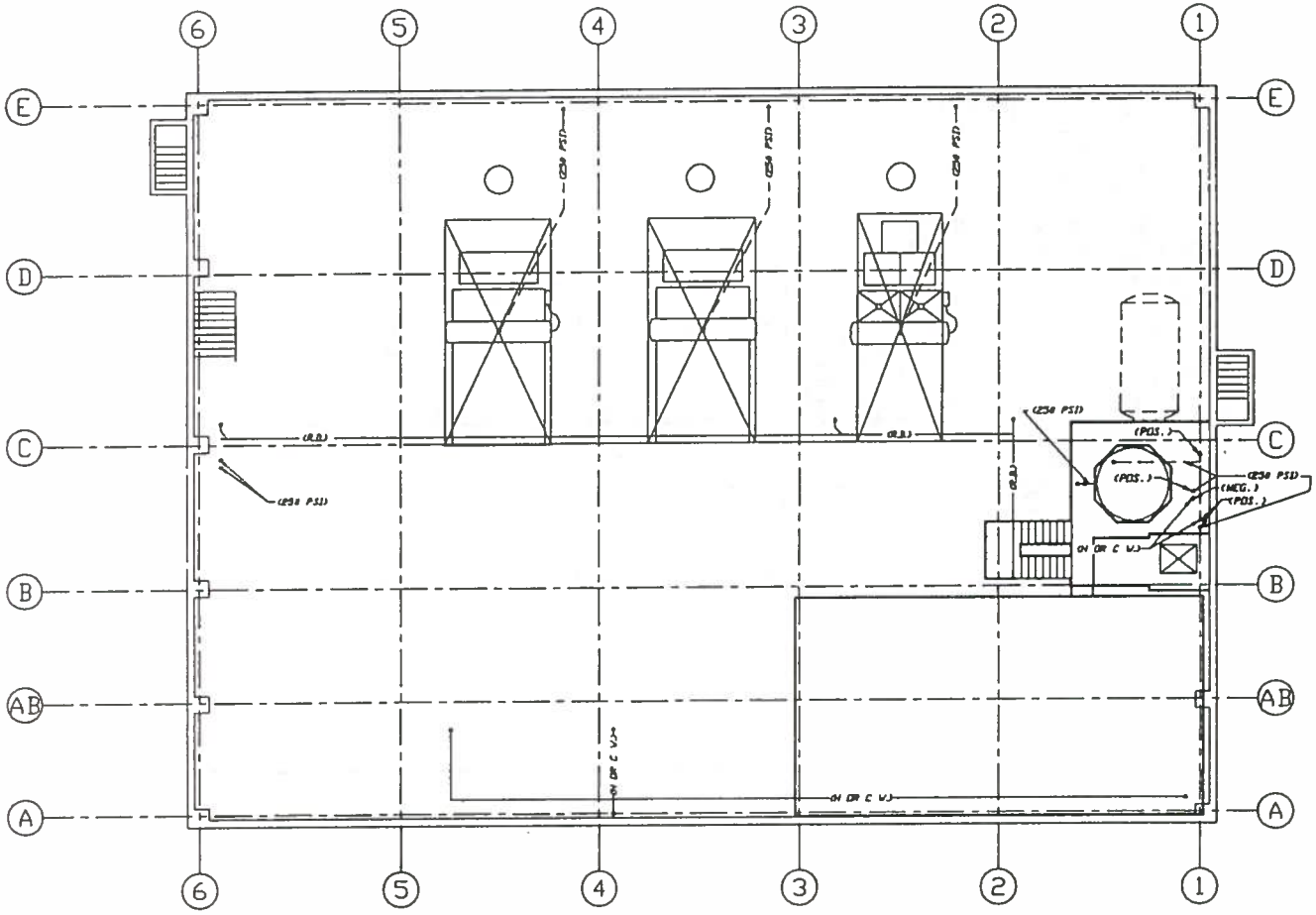
BCM ENGINEERS, PLANNERS and SCIENTISTS

DESIGN DATE: APPROVED
DRAWN BY A.J.M.
PROJECT DATE: APPROVED
PROJECT NO.

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
POWER HOUSE SCALE PLATFORM LEVEL

SCALE: 1/8"=1'-0"
PROJECT NO: 07-6354-02
DRAWING NO: 07-6354-02-14
SHEET



LEGEND

HOT OR COLD WATER	= GH OR C V.)
250 PSI	= (250 PSI)
ROOF DRAINS	= (R.D.)
RISERS	= ●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	= ———
POSITIVE (ASBESTOS PIPE)	= — — — —

NOTE:
SEE TYPICAL ASBESTOS CLADDING DETAIL, SHEET 13 OF 15

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DRAWN BY J.S.M.
PROJECT CHK.
PROJECT MGR.
CHK.

APPROVED
APPROVED

SEAL

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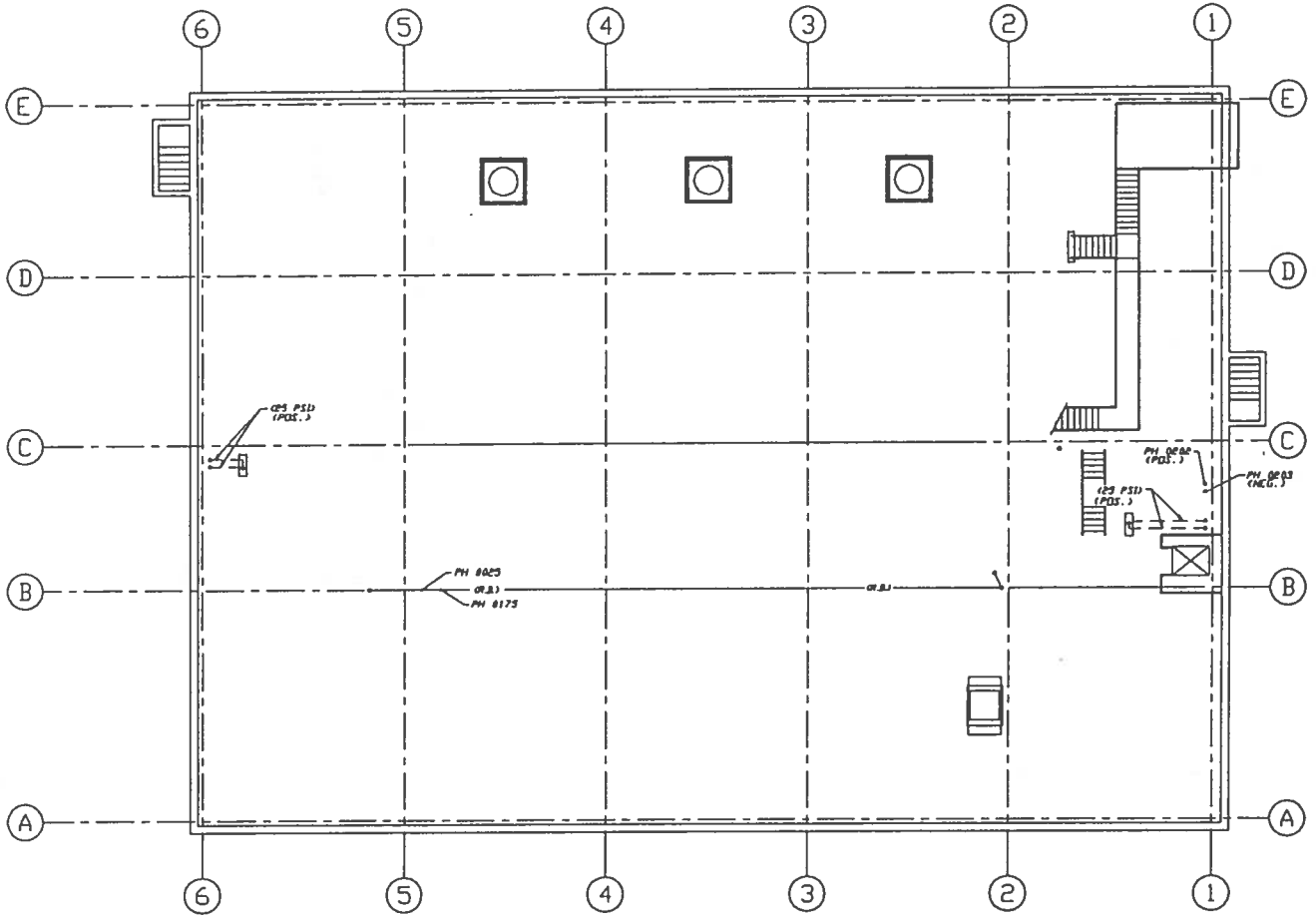
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
POWER HOUSE PLAN ABOVE BOILERS

SCALE: 1/8"=1'-0"
PROJECT NO. 07-8354-02
DRAWING NO. 07-8354-02-15
SHEET 15 O



LEGEND

250 PSI	=	(25 PSI)
ROOF DRAINS	=	(R.D.)
RISERS	=	●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	=	———
POSITIVE (ASBESTOS PIPE)	=	— — — —

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 23

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PROJECT ENGR. | APPROVED
PROJECT MGR.
CHECKED BY | DATE

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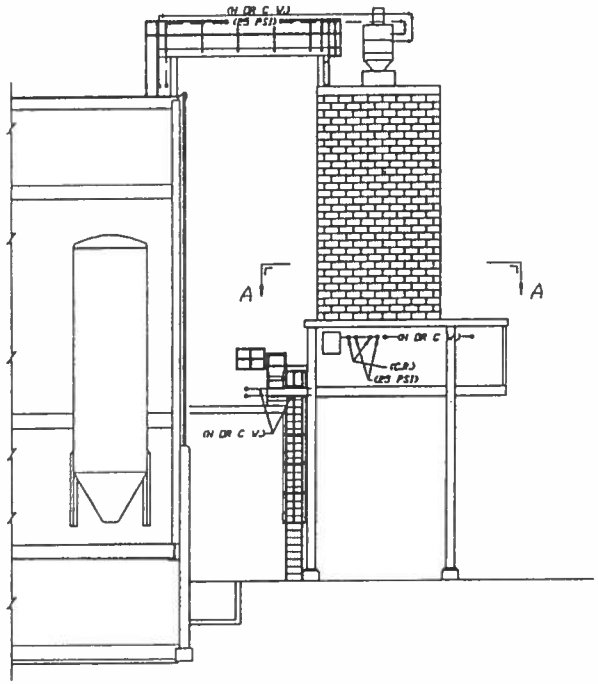
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

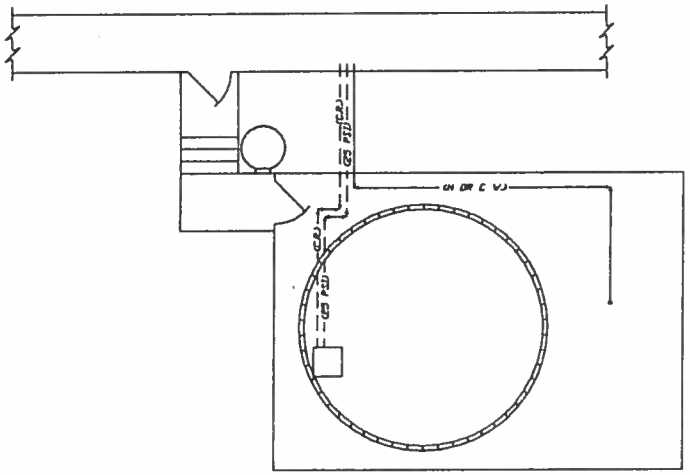
MANSFIELD OHIO PLANT
OVER HEAD BUNKER

SCALE: 1/8"=1'-0"
PROJECT NO. 87-8354-03
DRAWING NO. 87-8354-02-16
SHEET

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25



ASH SILO
SCALE 1/8"=1'-0"



SECTION A - A
1/4"=1'-0"

LEGEND

HOT OR COLD WATER	=	(H OR C V.)
25 PSI	=	(25 PSI)
ROOF DRAINS	=	(R.D.)
RISERS	=	●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	=	———
POSITIVE (ASBESTOS PIPE)	=	— — — — —
CONDENSATE RETURN	=	(C.R.)

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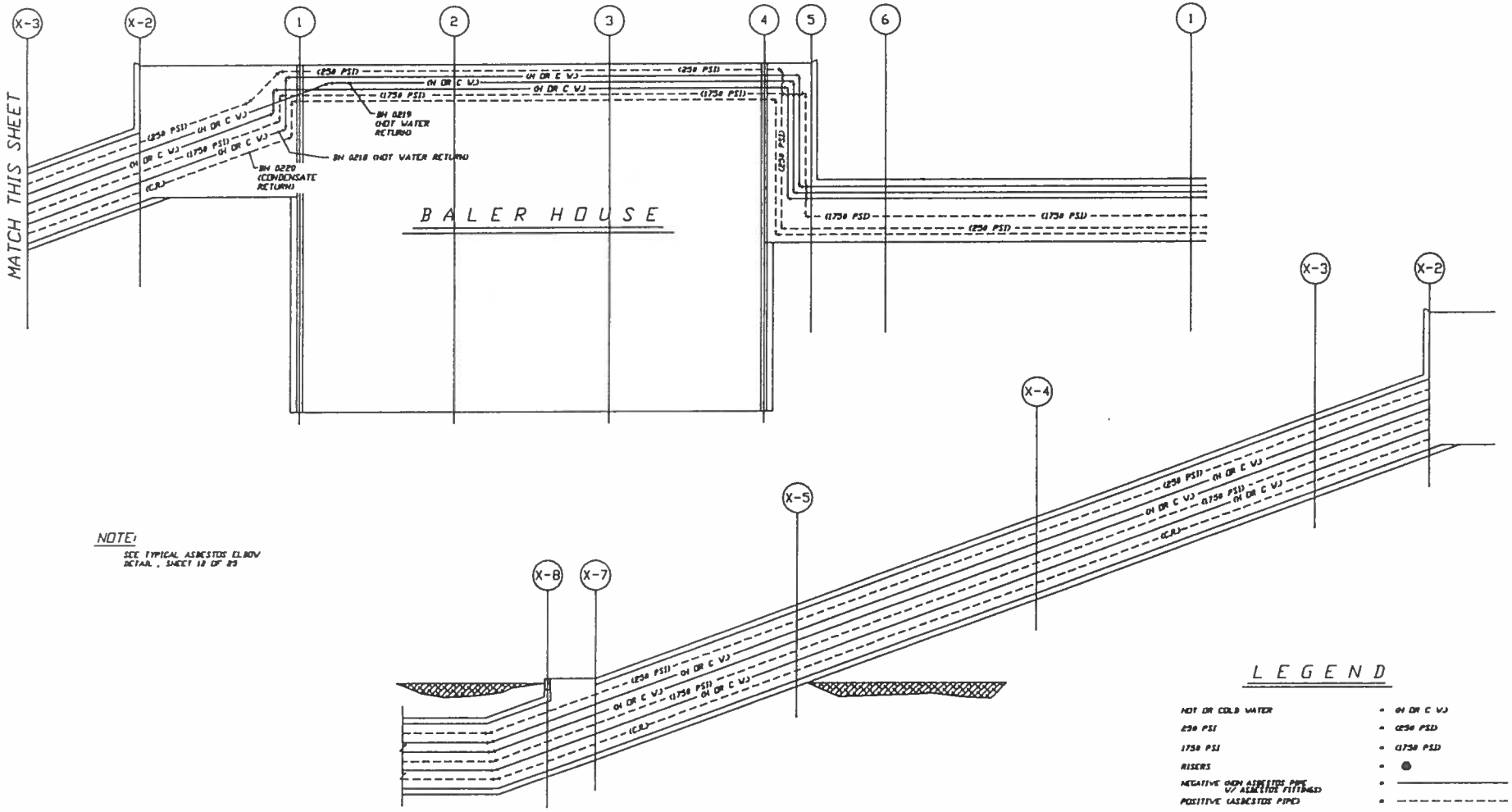
DRAWN BY A.T.M.
PROJECT ENGR.
PROJECT MGR.
APPROVED
APPROVED
LEAL

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
ASH SILO
X AND EI

SCALE 1/8"=1'-0"
PROJECT NO. 07-8364-03
DRAWING NO. 07-8364-03-17
SHEET 17



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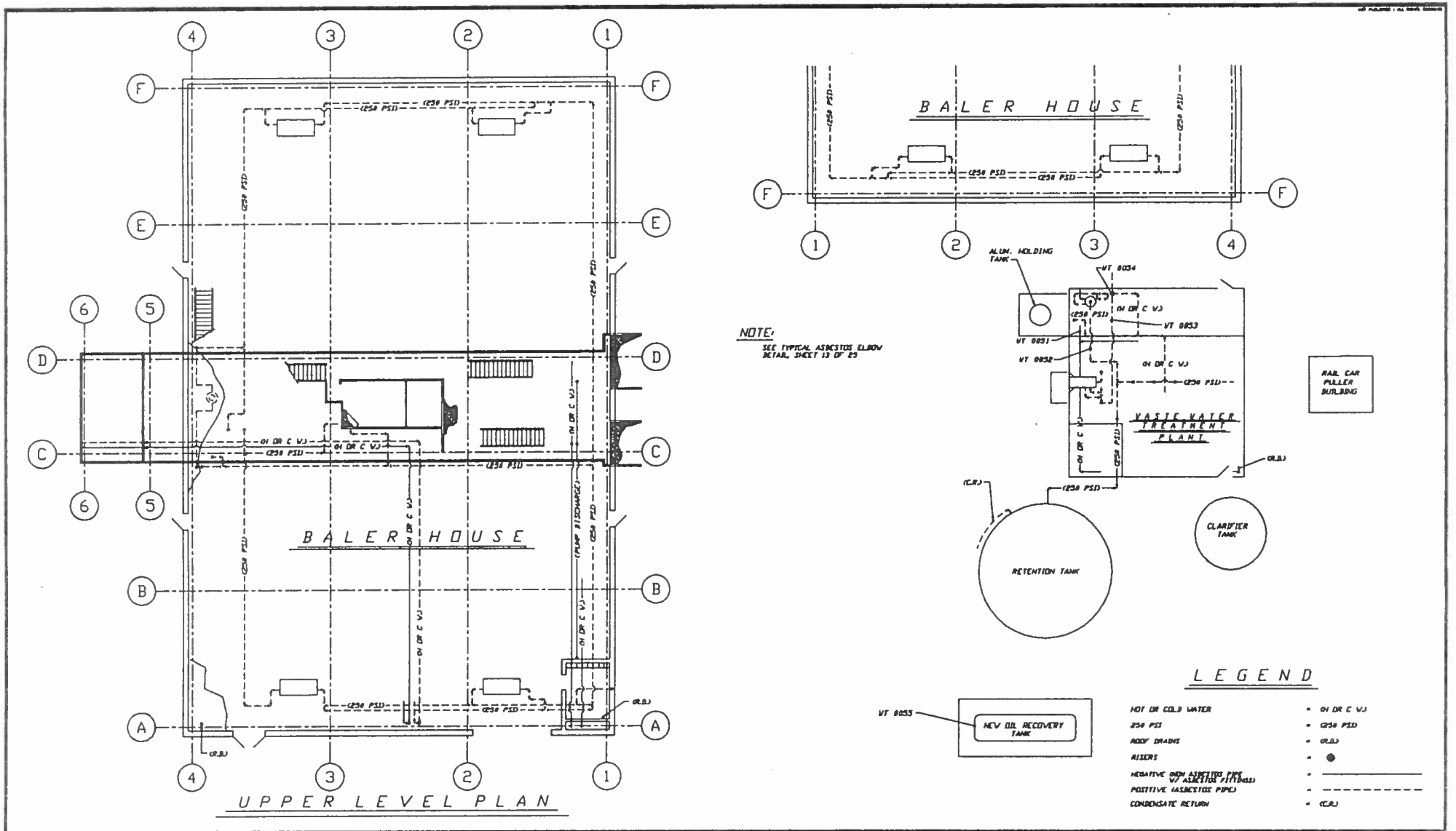
DRAWN BY A.T.M.
PROJECT ENGR. APPROVED
PROJECT MGR.
CHECKED BY DATE

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
BALER HOUSE ELEVATIONS

SCALE 1/8"=1'-0"
PROJECT NO. 07-8364-02
DRAWING NO. 07-8364-02-18
SHEET 18 OF 25



BCM ENGINEERS, PLANNERS and SCIENTISTS

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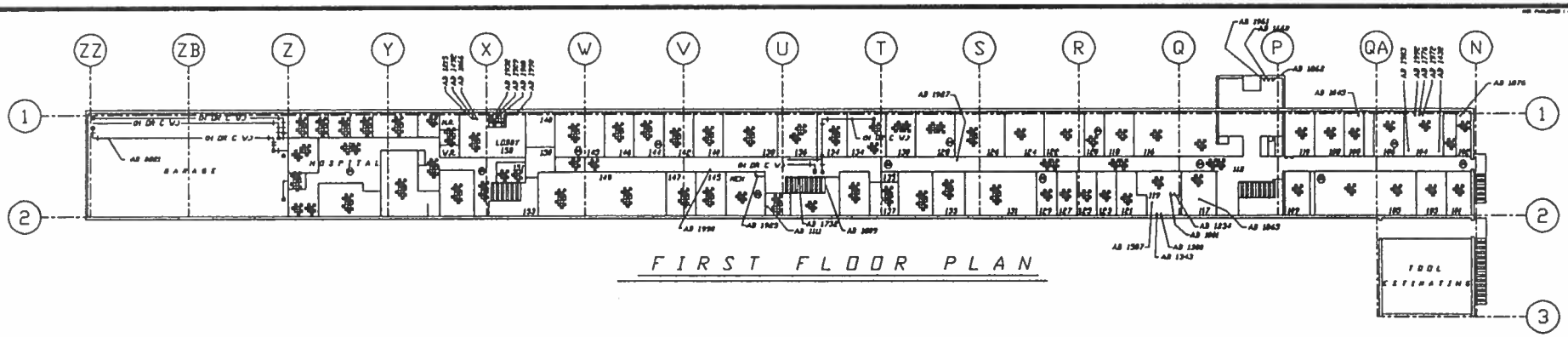
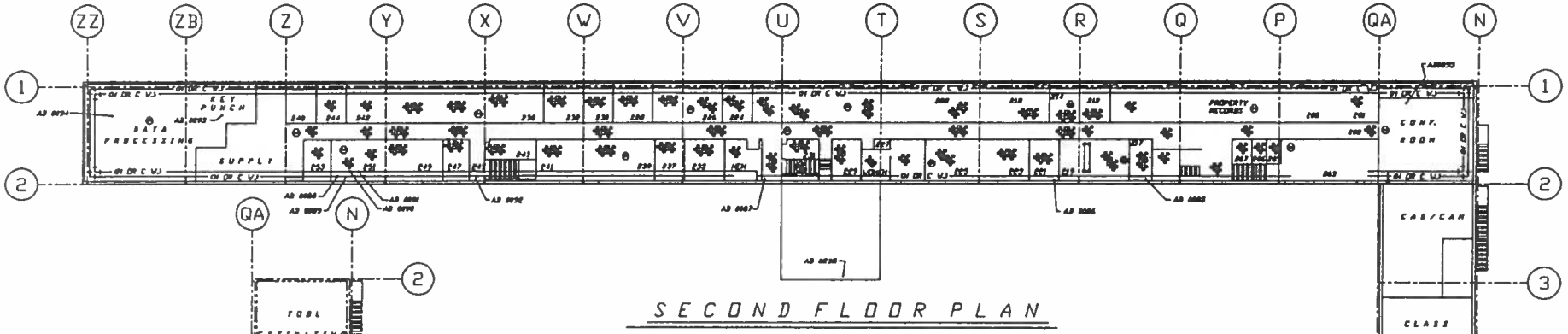
DRAWN BY A.F.M.
PROJECT ENGR.
PROJECT MGR.
APPROVED
APPROVED
SEAL

GENERAL MOTORS CORPORATION
MANSFIELD OHIO PLANT
WASTE WATER TREATMENT PLANT

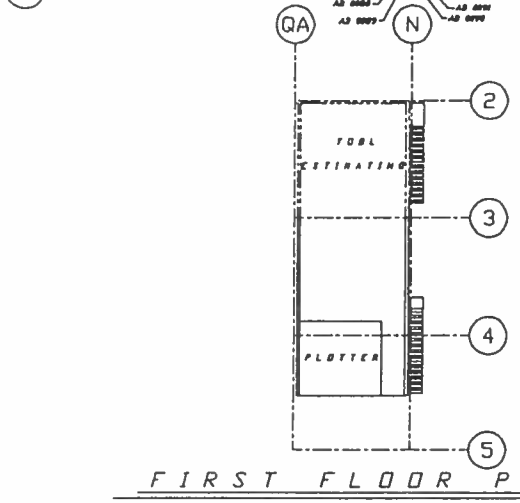
SCALE 1/8"=1'-0"
PROJECT NO. 07-6354-02
DRAWING NO. 07-6354-02-10
SHEET 10



FIRST FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

LEGEND

HOT OR COLD WATER	- H OR C W J
DANGER NOTICE (TAGS)	- AA
ASBESTOS SHEETING	-
ASBESTOS FLOOR TILE	-
NEGATIVE GRDH ASBESTOS PIPE W/ ASBESTOS FITTINGS	-
POSITIVE ASBESTOS PIPE	-

BCM ENGINEERS, PLANNERS and SCIENTISTS

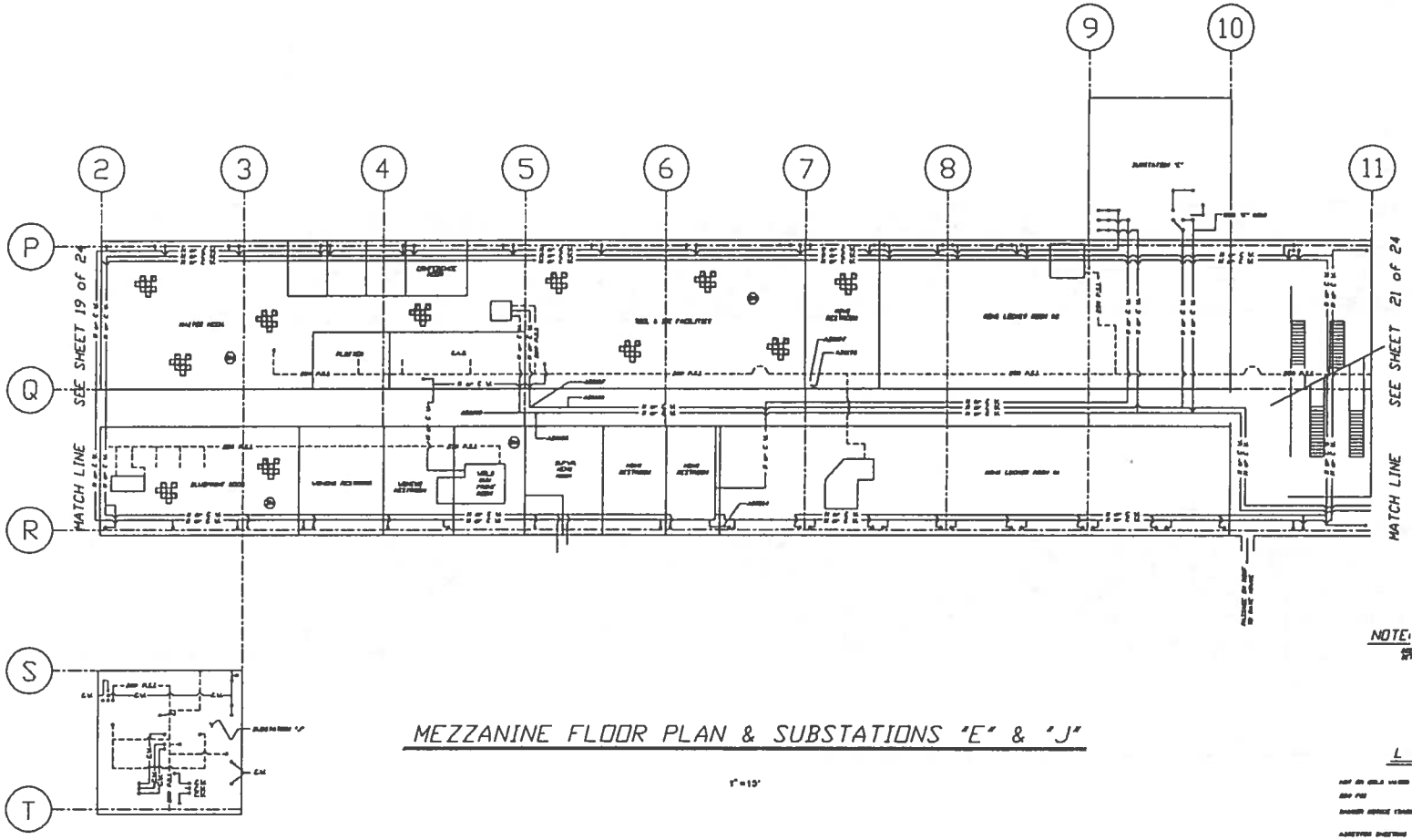
3777 Boun Blvd. Pittsburgh, PA 15206 One Plymouth Meeting Plymouth Meeting, PA 19462

DESIGN CHK'D | APPROVED | DATE
DRAWN BY A.F.M. | APPROVED | DATE
PROJECT CHK'D | APPROVED | DATE
PROJECT MGR. | DATE
CHECKED BY | DATE

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
FIRST AND SECOND FLOOR PLAN

SCALE 1"=20'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-20
SHEET



MEZZANINE FLOOR PLAN & SUBSTATIONS "E" & "J"

1"=15'

NOTE:

LEGEND

BCM ENGINEERS, PLANNERS and SCIENTISTS

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DRAWN BY
PROJECT CHGR.
PROJECT MGR.
APPROVED
APPROVED
SEAL

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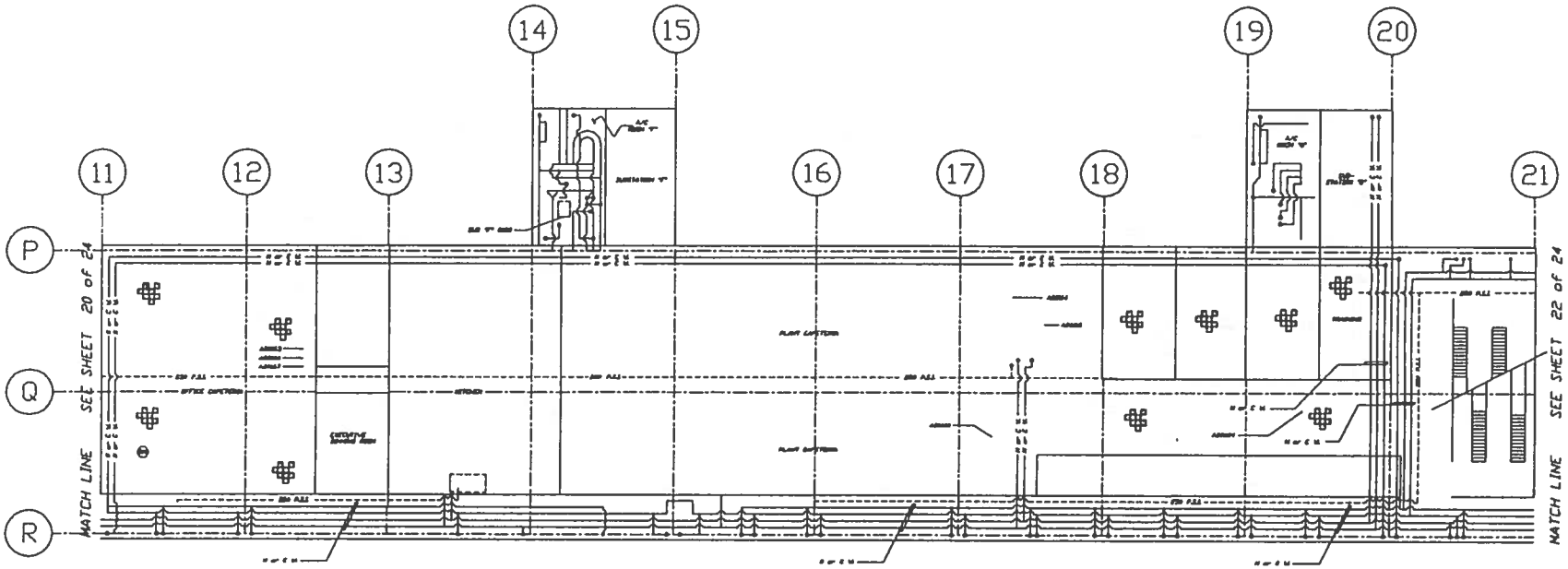
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATIONS "E" & "J" PLAN

SCALE: 1"=15'
PROJECT NO. 07-6354-03
DRAWING NO. 07-6354-02-21
SHEET 21 L



MEZZANINE FLOOR PLAN & SUBSTATIONS "F" & "G"

1"=15'

NOTE:

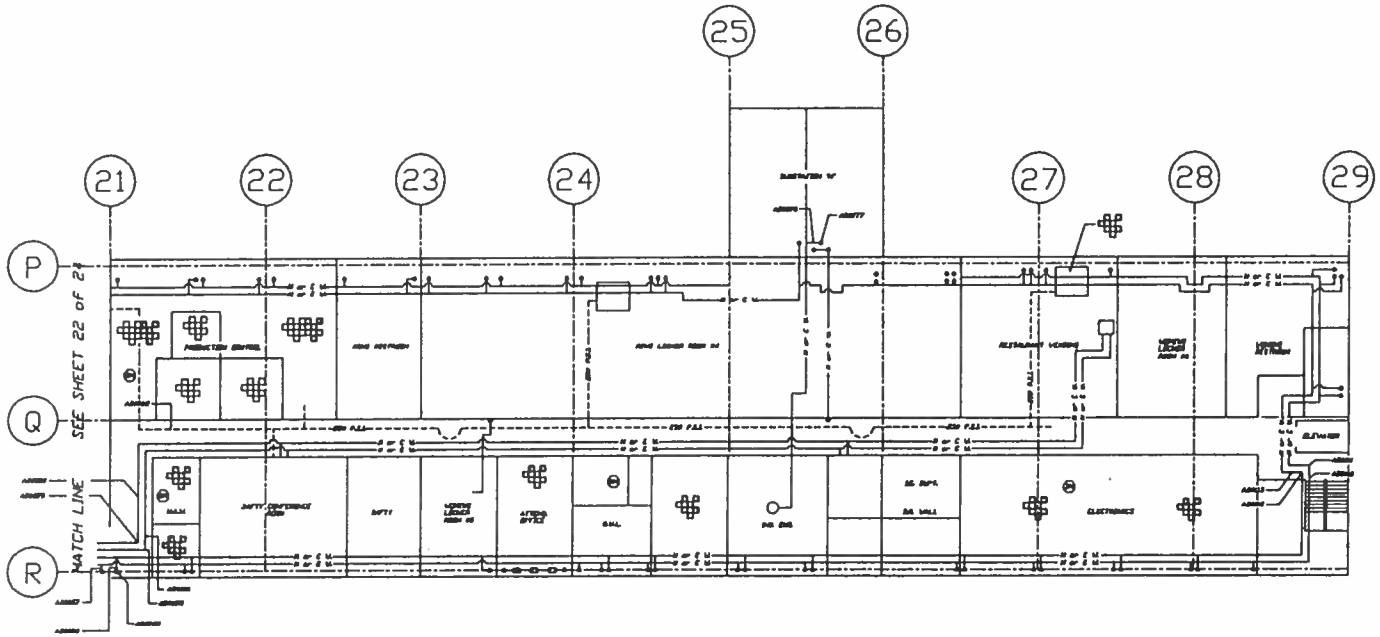
LEGEND

BCM ENGINEERS, PLANNERS and SCIENTISTS 3777 Saw Mill Blvd. Pittsburgh, PA 15204 One Plymouth Meeting Plymouth Meeting, PA 19462	DESIGN ENGR.	APPROVED	SEAL
	DRAWN BY		
	PROJECT ENGR.	APPROVED	
	PROJECT MGR.		
	CHECKED BY	DATE NOV. 1980	

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATIONS "F" & "G"
PLAN

SCALE	1"=15'
PROJECT NO.	07-8364-02
DRAWING NO.	07-8364-02-22
SHEET	22 OF 24



MEZZANINE FLOOR PLAN & SUBSTATION "H"

1"=15'

NOTE:

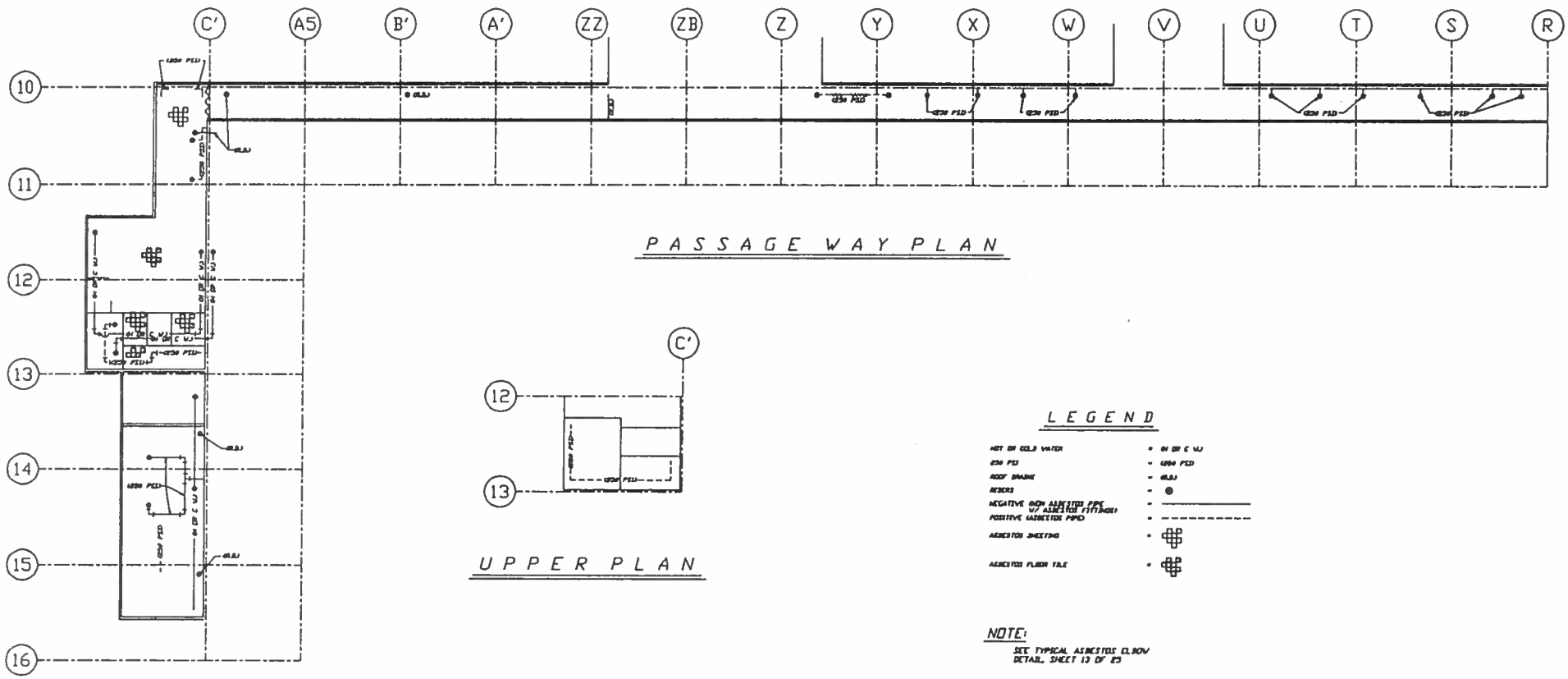
LEGEND

BCM ENGINEERS, PLANNERS and SCIENTISTS	DESIGN ENGR.	APPROVED	SEAL
	DRAWN BY CHRISTOPHER J. SOHEN		
	PROJECT ENGR.	APPROVED	
	PROJECT MGR.		
		DATE 1990	

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATION "H" PLAN

SCALE	1"=15'
PROJECT NO.	07-6364-03
DRAWING NO.	07-6364-02-23
SHEET	23



PASSAGE WAY PLAN

UPPER PLAN

LEGEND

HOT OR COLD WATER	•
ESW PIPE	•
ROOF DRAINS	•
RISERS	•
NEGATIVE (NON ASBESTOS) PIPE W/ ASBESTOS FITTINGS	•
POSITIVE (ASBESTOS) PIPES	•
ASBESTOS SHEETING	•
ASBESTOS FLOOR TILE	•

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 23

BCM ENGINEERS, PLANNERS and SCIENTISTS

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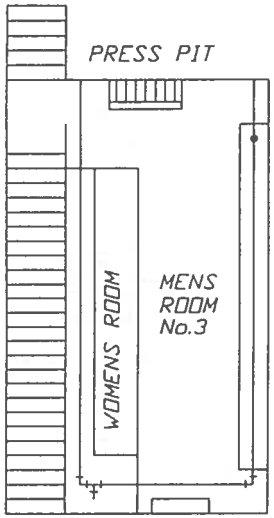
DRAWN BY A.F.M.
PROJECT ENGR. | APPROVED
PROJECT MGR.
CHECKED BY | DATE

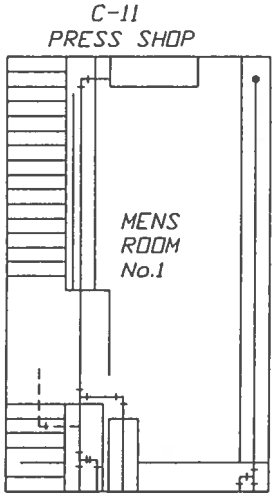
GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
PASSAGEWAY
PLAN

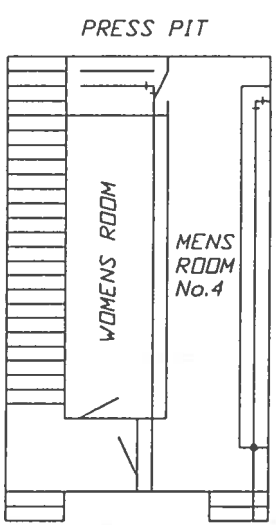
SCALE 1" = 20'
PROJECT NO. 87-6384-02
DRAWING NO. 87-6384-02-24
SHEET



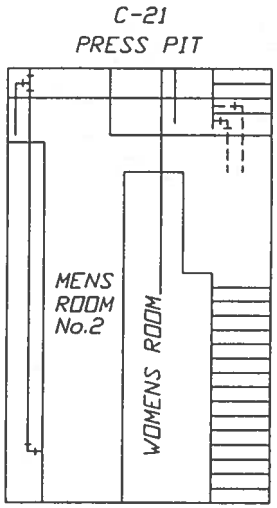
M-5
PRESS SHOP



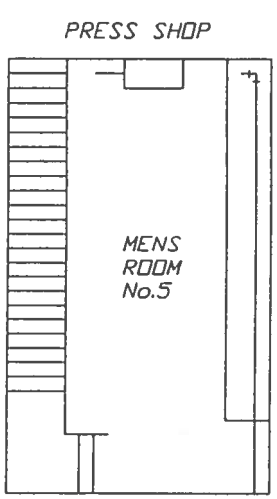
D-11
PRESS PIT



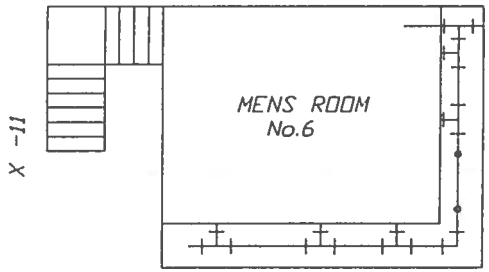
M-17
PRESS PIT

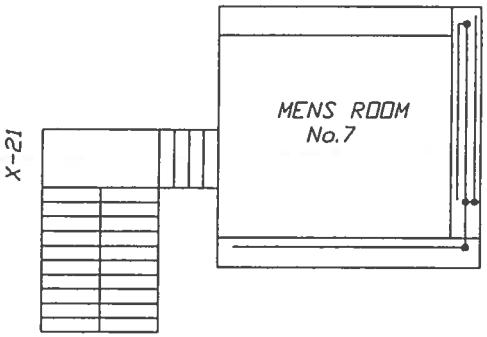


D-21
PRESS SHOP



M-29
PRESS PIT





NOTE:
SEE TYPICAL ASBESTOS ELADV
RETAIL SHEET 13 OF 25

BCM ENGINEERS, PLANNERS and SCIENTISTS

3777 Boun Blvd. Pittsburgh PA 15206 (Old Plymouth Meeting) Plymouth Meeting, PA 19462

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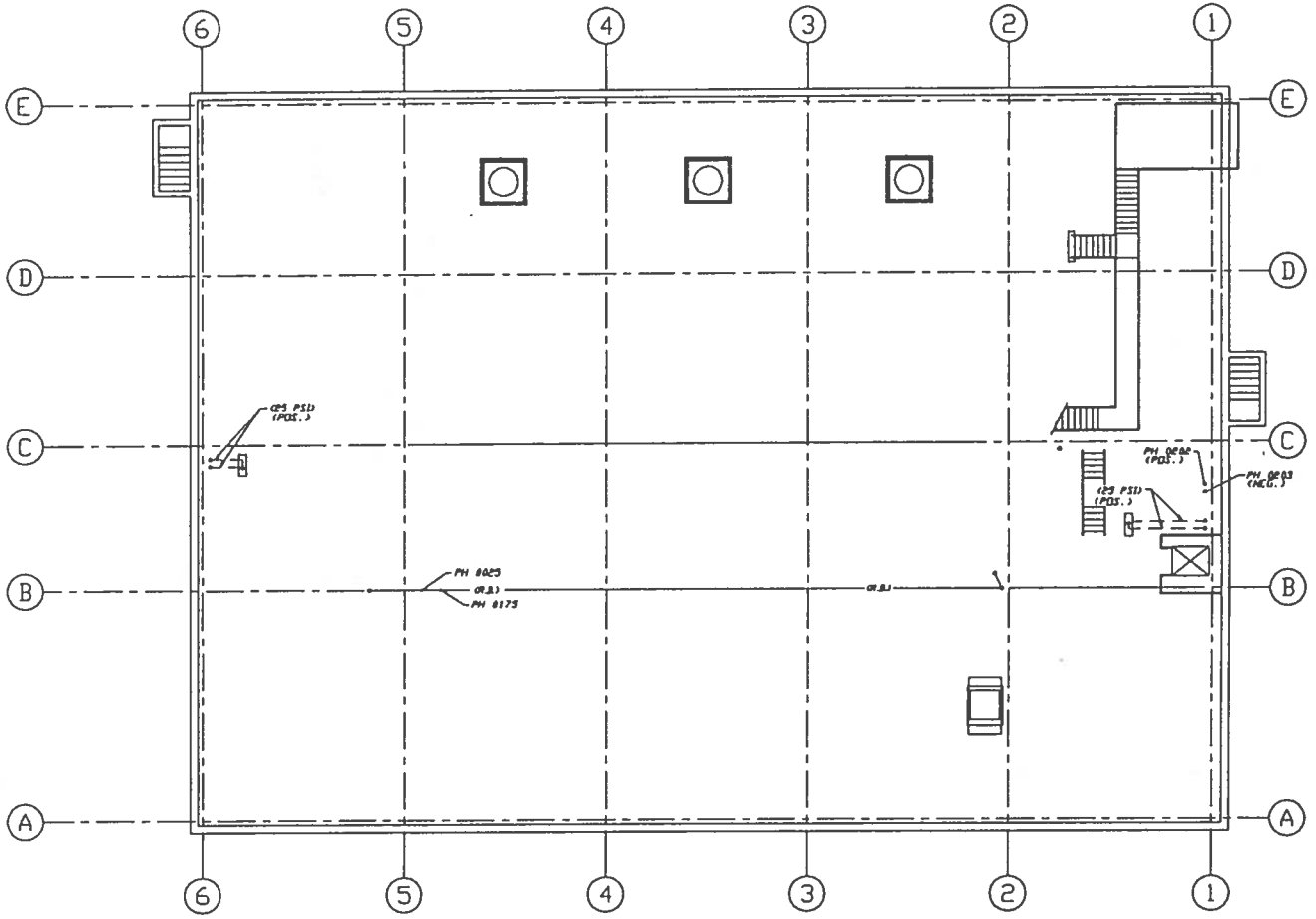
DRAWN BY A.F.M.
PROJECT ENGR. APPROVED
PROJECT MGR.
CHECKED BY DATE 880

SEAL

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
"S"SHROOM F...

SCALE: (N.T.S.)
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-25
SHEET 25



LEGEND

250 PSI	=	(25 PSI)
ROOF DRAINS	=	(R.D.)
RISERS	=	●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	=	———
POSITIVE (ASBESTOS PIPE)	=	— — — —

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 23

BCM ENGINEERS, PLANNERS and SCIENTISTS

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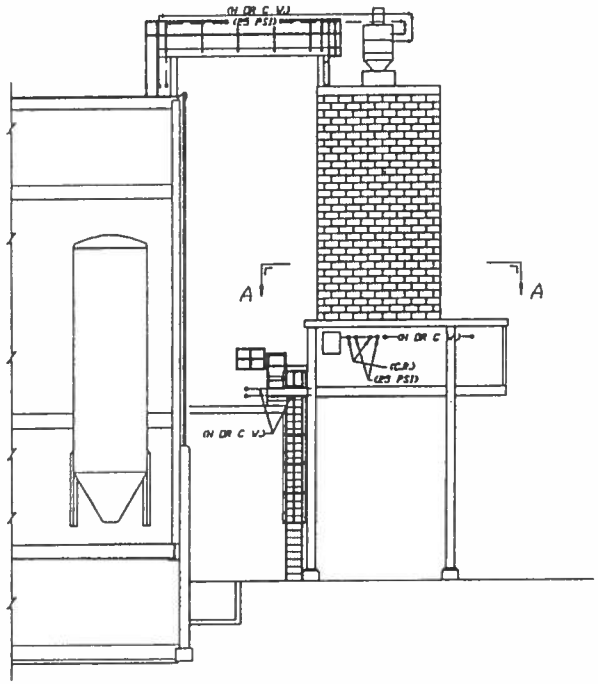
GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

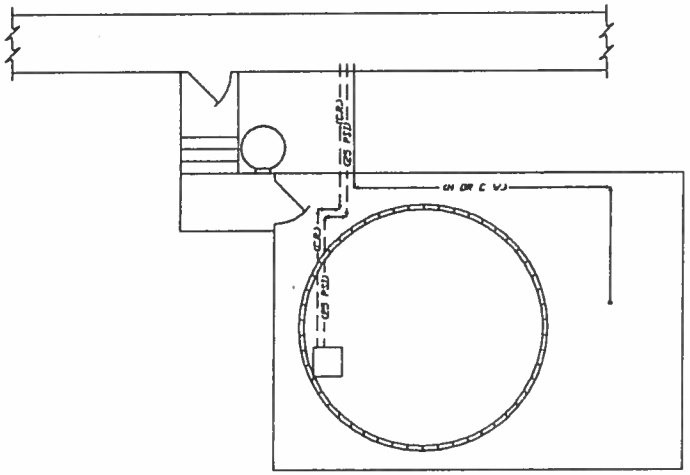
MANSFIELD OHIO PLANT
OVER HEAD BUNKER

SCALE: 1/8"=1'-0"
PROJECT NO. 87-8354-03
DRAWING NO. 87-8354-02-16
SHEET

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25



ASH SILO
SCALE 1/8"=1'-0"



SECTION A - A
1/4"=1'-0"

LEGEND

HOT OR COLD WATER	=	(H OR C V.)
25 PSI	=	(25 PSI)
ROOF DRAINS	=	(R.D.)
RISERS	=	●
NEGATIVE (NON ASBESTOS PIPE W/ ASBESTOS FITTINGS)	=	———
POSITIVE (ASBESTOS PIPE)	=	— — — — —
CONDENSATE RETURN	=	(C.R.)

BCM ENGINEERS, PLANNERS and SCIENTISTS

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PROJECT ENGR.
PROJECT MGR.
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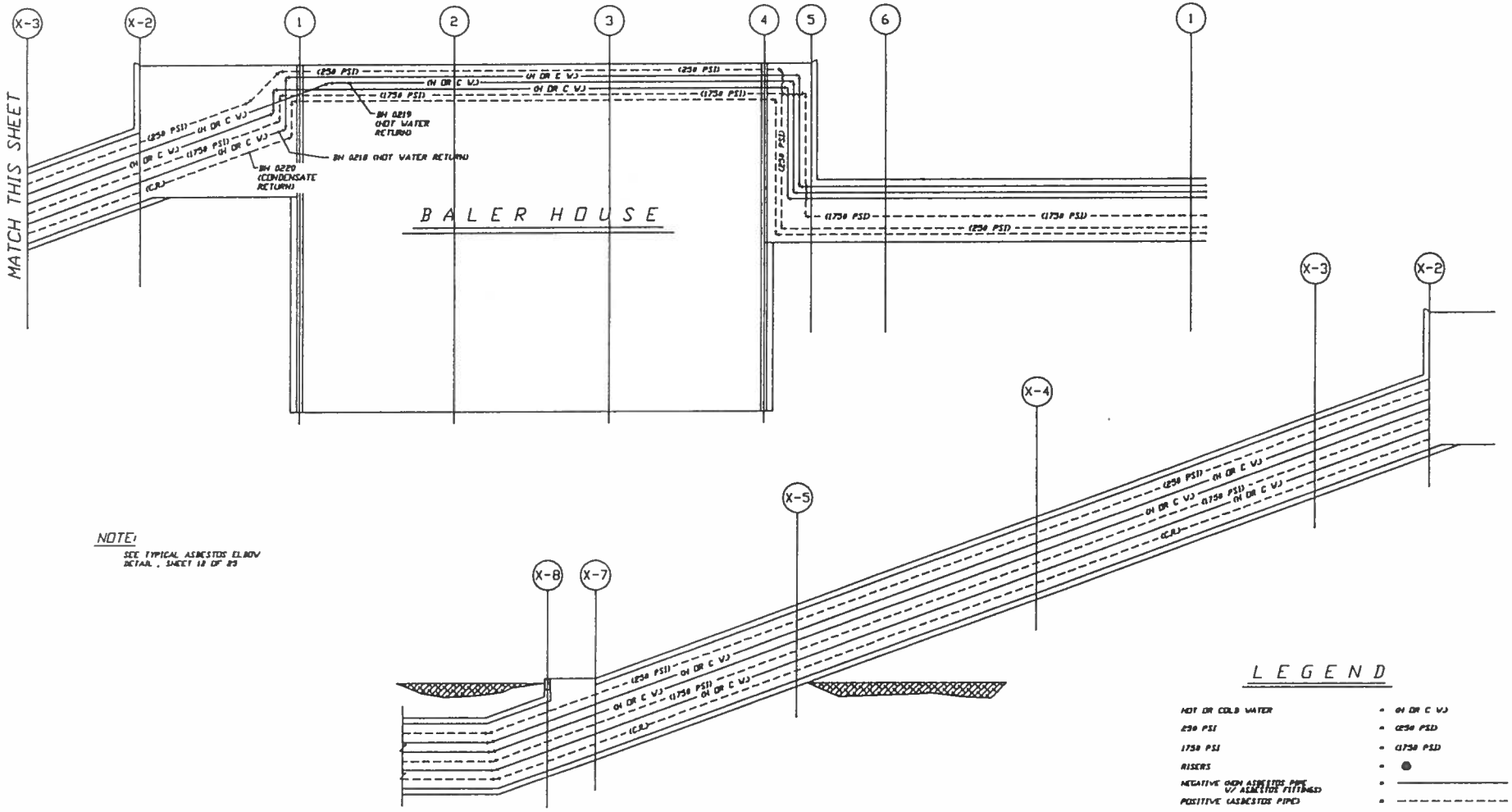
APPROVED
LEAL

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
ASH SILO
X AND EI

SCALE 1/8"=1'-0"
PROJECT NO. 07-8364-03
DRAWING NO. 07-8364-03-17
SHEET 17



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DRAWN BY A.T.M.
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PROJECT MGR.
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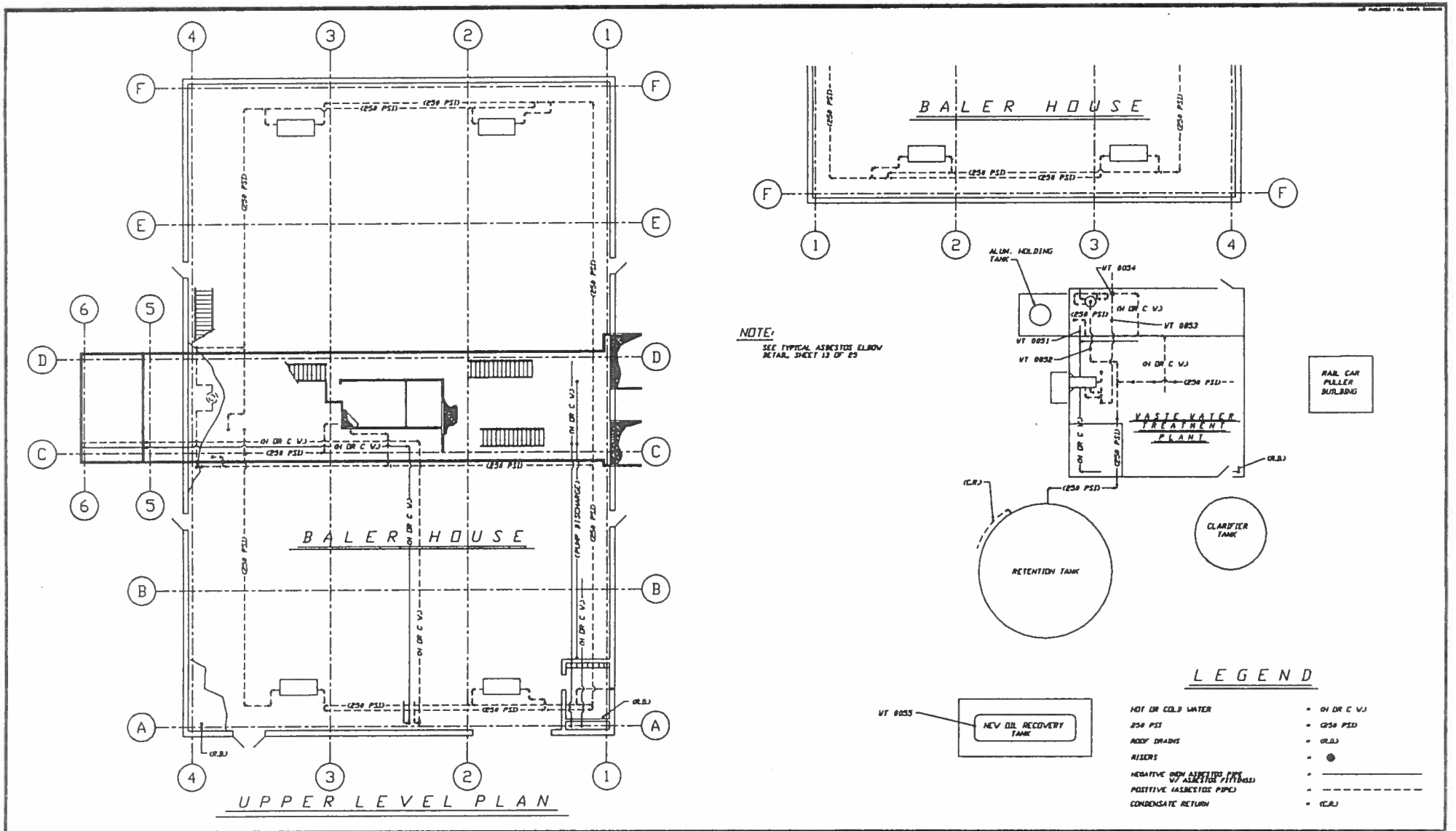
GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
BALER HOUSE ELEVATIONS

SCALE 1/8"=1'-0"
PROJECT NO. 07-8364-02
DRAWING NO. 07-8364-02-18
SHEET 18 OF 25



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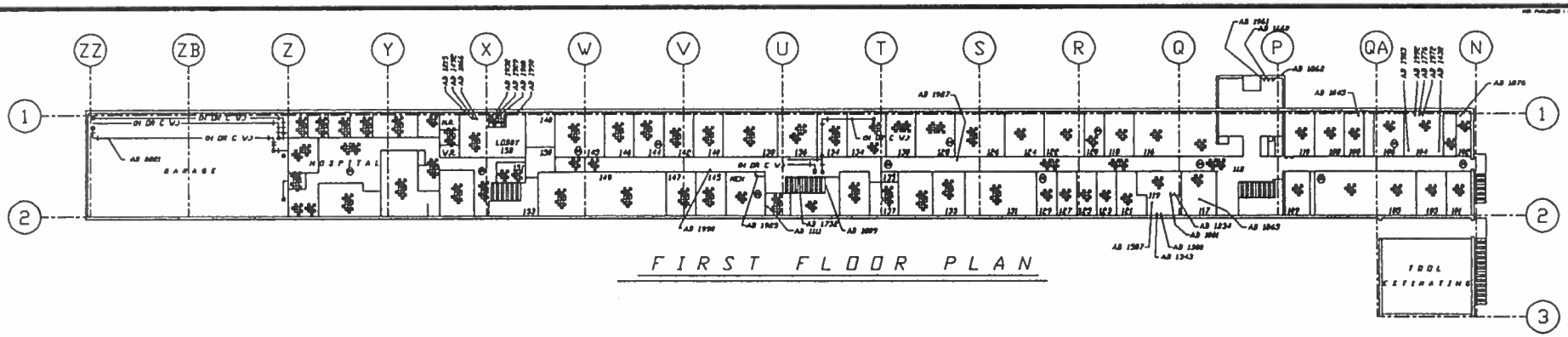
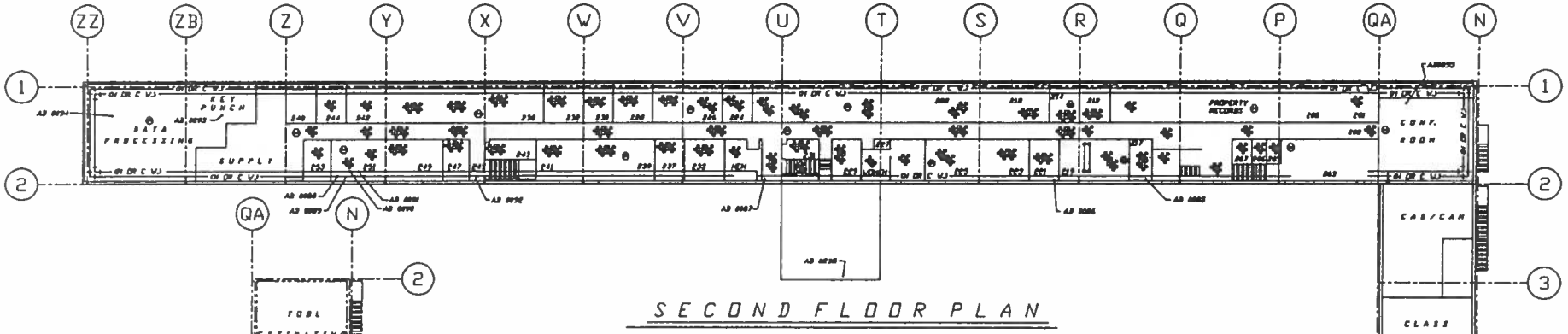
PROJECT ENGR.
PROJECT MGR.
APPROVED
APPROVED
SEAL

GENERAL MOTORS CORPORATION
MANSFIELD OHIO PLANT
WASTE WATER TREATMENT PLANT

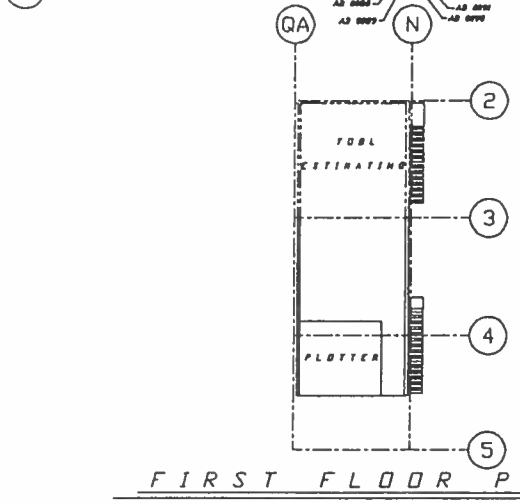
SCALE 1/8"=1'-0"
PROJECT NO. 07-6354-02
DRAWING NO. 07-6354-02-10
SHEET 10



FIRST FLOOR PLAN



SECOND FLOOR PLAN



FIRST FLOOR PLAN

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 25

LEGEND

HOT OR COLD WATER	- H OR C W J
DANGER NOTICE (TAGS)	- AA
ASBESTOS SHEETING	-
ASBESTOS FLOOR TILE	-
NEGATIVE GRDH ASBESTOS PIPE W/ ASBESTOS FITTINGS	-
POSITIVE ASBESTOS PIPE	-

BCM ENGINEERS, PLANNERS and SCIENTISTS

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PROJECT CHK'D | APPROVED | DATE
PROJECT MGR. | DATE
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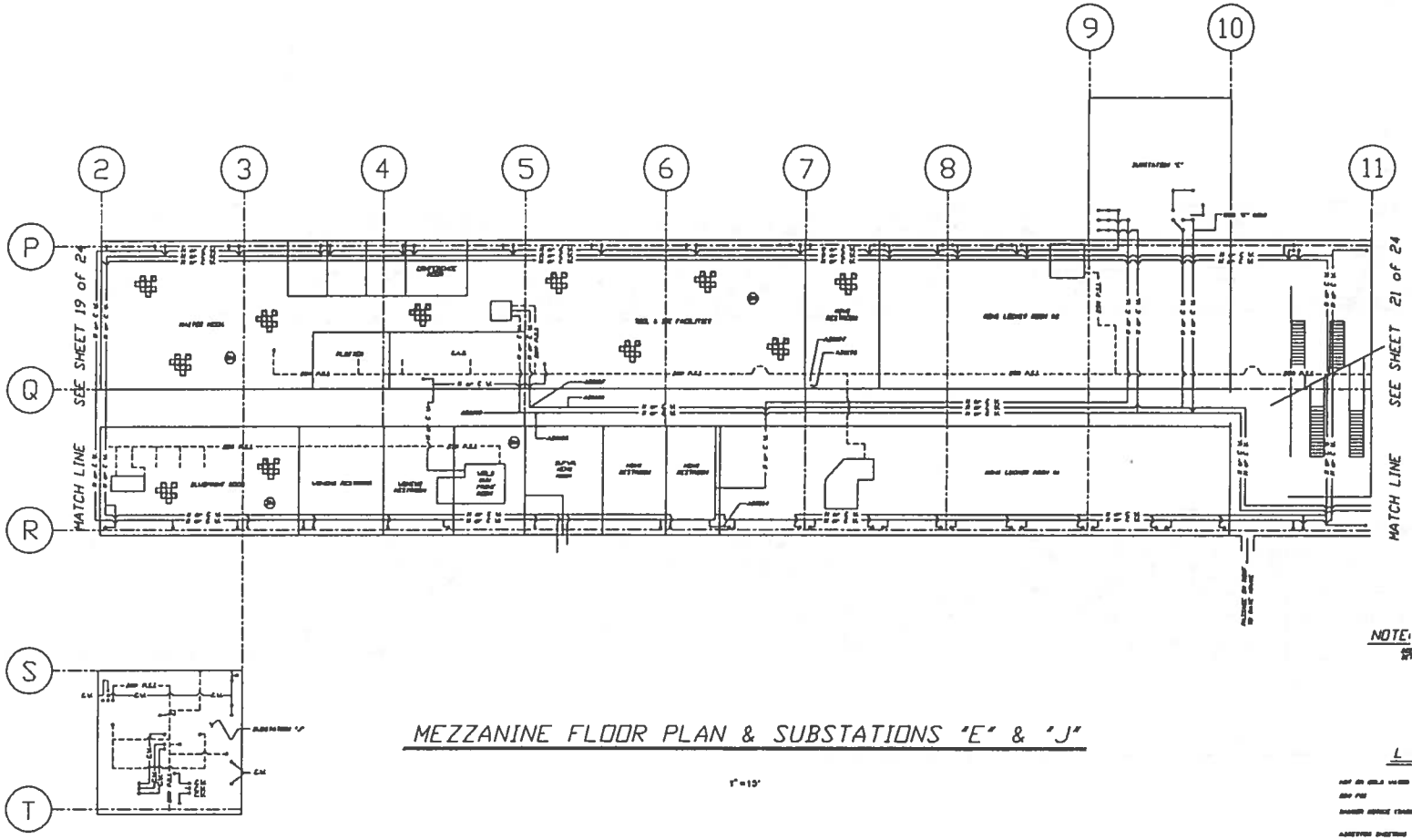
GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
FIRST AND SECOND FLOOR PLAN

SCALE 1"=20'
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-20
SHEET



MEZZANINE FLOOR PLAN & SUBSTATIONS "E" & "J"

1"=15'

NOTE:

LEGEND

BCM ENGINEERS, PLANNERS and SCIENTISTS

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PROJECT MGR.
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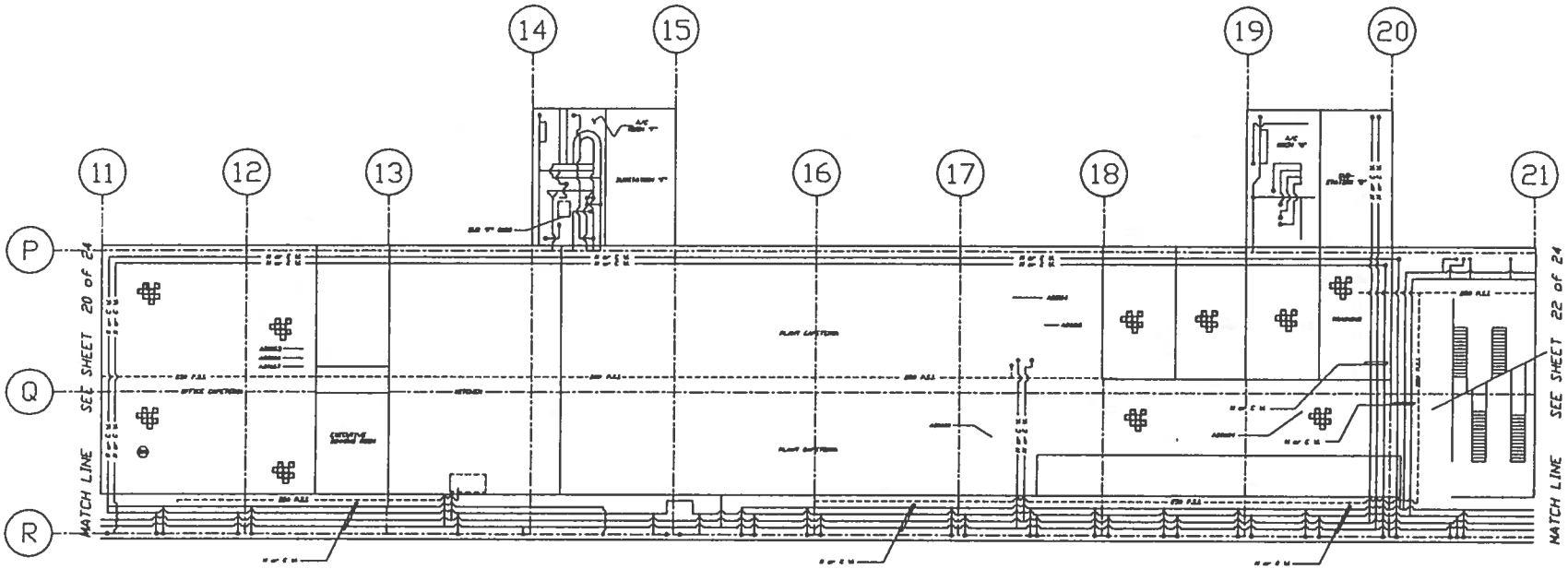
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATIONS "E" & "J" PLAN

SCALE: 1"=15'
PROJECT NO. 07-6354-03
DRAWING NO. 07-6354-02-21
SHEET 21 L



MEZZANINE FLOOR PLAN & SUBSTATIONS "F" & "G"

1"=15'

NOTE:

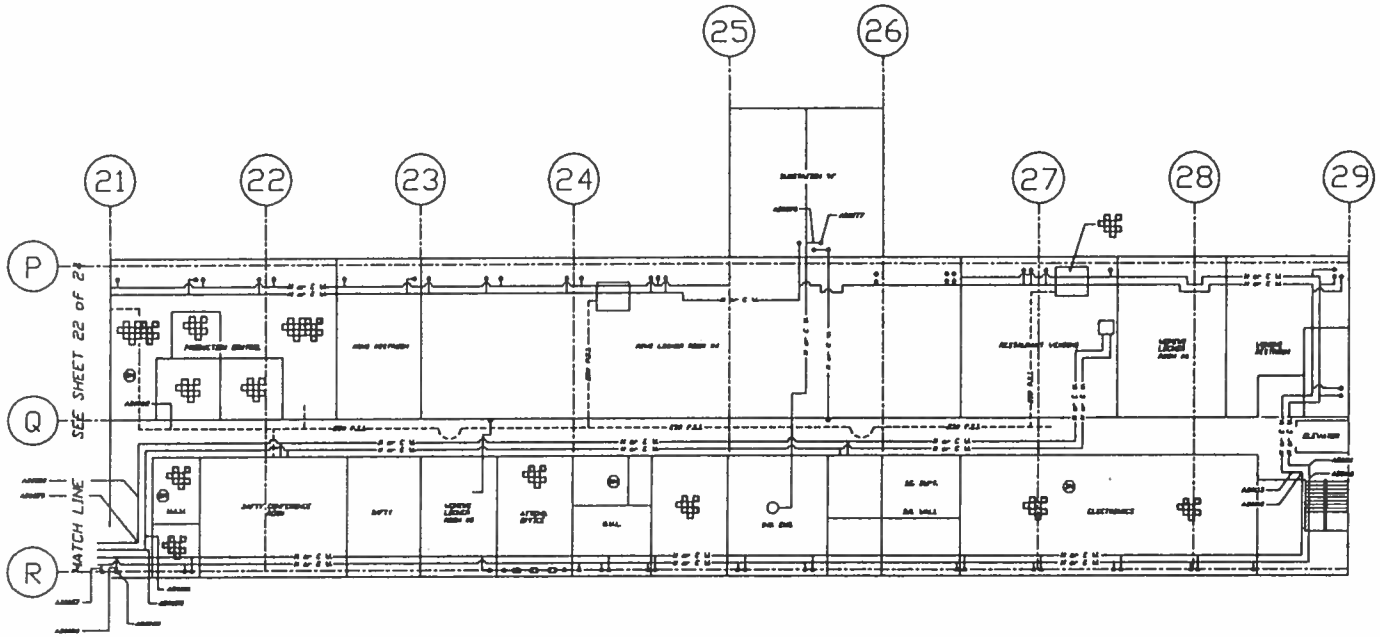
LEGEND

BCM ENGINEERS, PLANNERS and SCIENTISTS 3777 Saw Mill Blvd. Pittsburgh, PA 15204 One Plymouth Meeting Plymouth Meeting, PA 19462	DESIGN ENGR.	APPROVED	SEAL
	DRAWN BY		
	PROJECT ENGR.	APPROVED	
	PROJECT MGR.		
	CHECKED BY	DATE NOV. 1980	

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATIONS "F" & "G"
PLAN

SCALE	1"=15'
PROJECT NO.	07-8364-02
DRAWING NO.	07-8364-02-22
SHEET	22 OF 24



MEZZANINE FLOOR PLAN & SUBSTATION "H"

1"=15'

NOTE:

LEGEND

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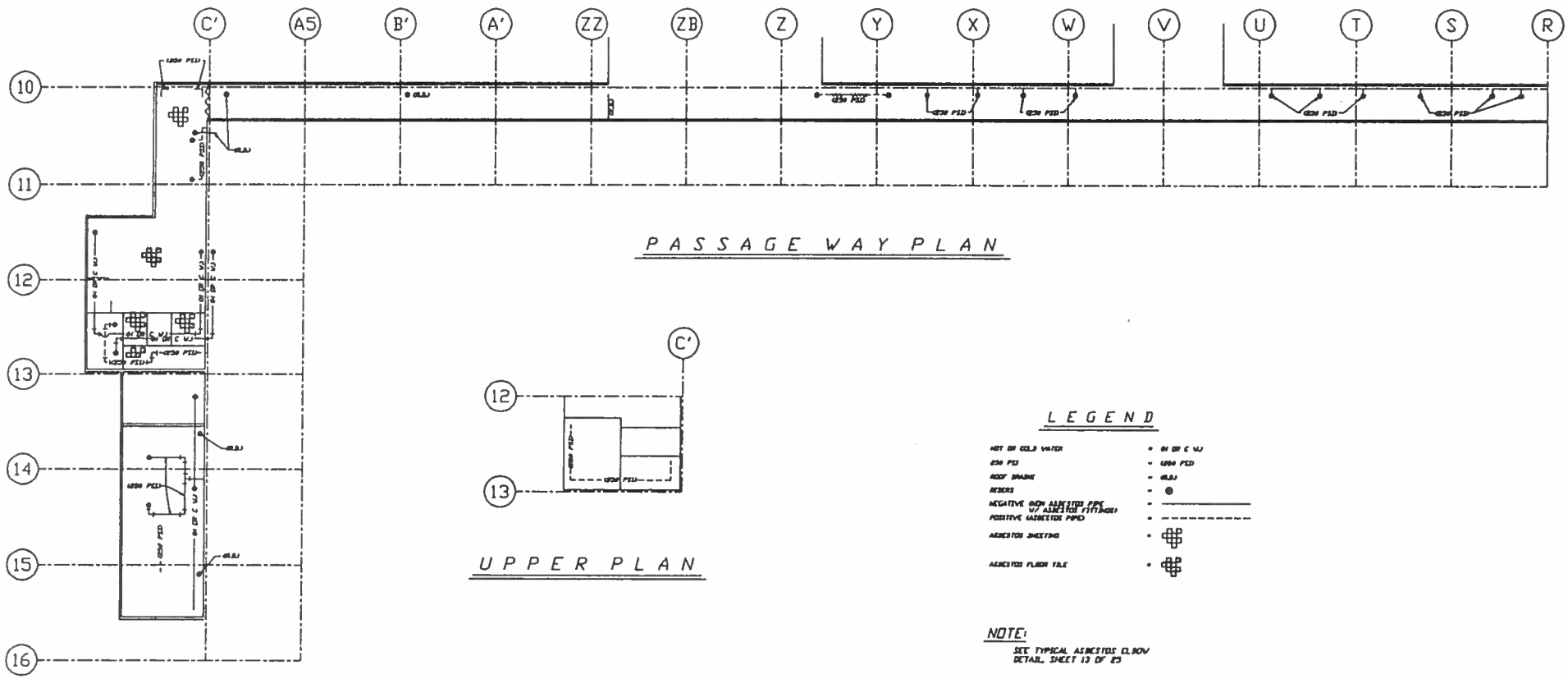
	PROJECT ENGR.	APPROVED	
	PROJECT MGR.		
		DATE 1990	

GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
MEZZANINE FLOOR PLAN & SUBSTATION "H" PLAN

SCALE	1"=15'
PROJECT NO.	07-6364-03
DRAWING NO.	07-6364-02-23
SHEET	23



PASSAGE WAY PLAN

UPPER PLAN

LEGEND

HOT OR COLD WATER	•
ESW PIPE	•
ROOF DRAINS	•
RISERS	•
NEGATIVE (NON ASBESTOS) PIPE W/ ASBESTOS FITTINGS	•
POSITIVE (ASBESTOS) PIPES	•
ASBESTOS SHEETING	•
ASBESTOS FLOOR TILE	•

NOTE:
SEE TYPICAL ASBESTOS ELBOW DETAIL, SHEET 13 OF 23

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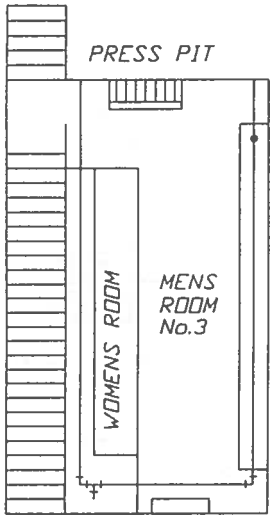
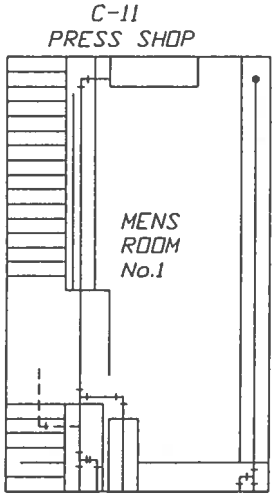
RICHLAND COUNTY OHIO

MANSFIELD OHIO PLANT
PASSAGEWAY
PLAN

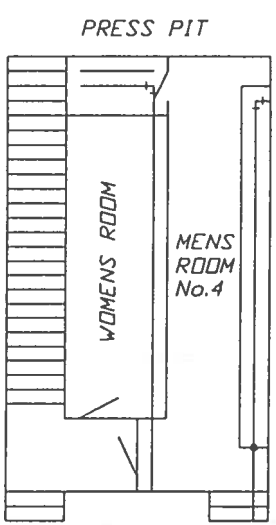
SCALE 1" = 20'
PROJECT NO. 87-6384-02
DRAWING NO. 87-6384-02-24
SHEET



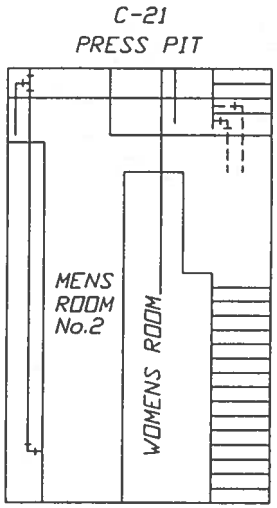
M-5
PRESS SHOP



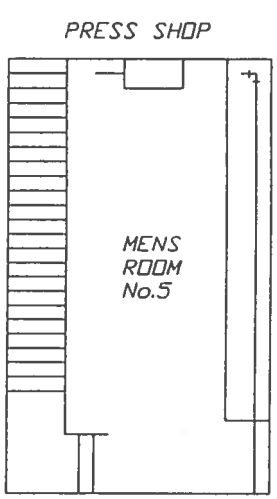
D-11
PRESS PIT



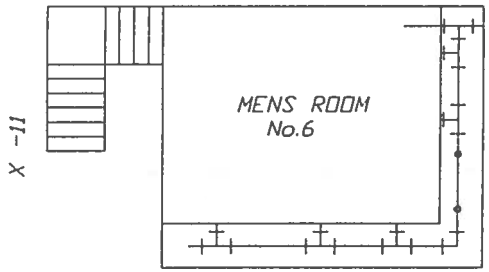
M-17
PRESS PIT

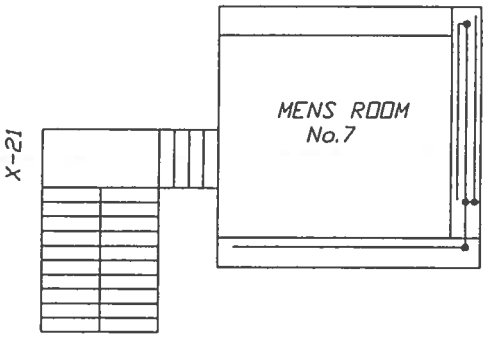


D-21
PRESS SHOP



M-29
PRESS PIT





NOTE:
SEE TYPICAL ASBESTOS ELADV
RETAIL SHEET 13 OF 25

BCM ENGINEERS, PLANNERS and SCIENTISTS

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GENERAL MOTORS CORPORATION
C.P.C. MANSFIELD
RICHLAND COUNTY OHIO
MANSFIELD OHIO PLANT
"S"SHROOM F...

SCALE: (N.T.S.)
PROJECT NO. 07-6364-02
DRAWING NO. 07-6354-02-25
SHEET 25