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RESULTS OF CONFIRMATORY SAMPLING PROGRAM

FORMER GENERAL MOTORS FAIRFAX I PLANT KANSAS CITY, KANSAS

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) was retained by General Motors Corporation to conduct soil and groundwater investigations at the former General Motors (GM) Fairfax I Plant Site in Kansas City, Kansas (Site).

CRA's August 2001 Voluntary Cleanup Investigation (VCI) report entitled "Pre-Design Investigations Work Plan" was submitted to the Kansas Department of Health and Environment (KDHE) for review and comment. In a July 23, 2002 response to GM, KDHE requested that additional soil and groundwater samples be collected across the Fairfax I Plant property to verify previous investigation activities. KDHE also requested that the monitoring wells to be sampled under the pre-design investigations include additional parameters. GM agreed to perform the additional sampling. The supplemental work was outlined in the September 10, 2004 letter from CRA to KDHE entitled "Amendment to Pre-Design Work Plan". KDHE reviewed the work plan amendment and stated in a November 24, 2004 letter to GM that the VCI work plan appears to be complete and is therefore approved. CRA conducted the supplemental confirmatory sampling at the former Fairfax I Plant Site in December 2004.

While both the pre-design investigations sampling and the supplemental confirmatory sampling were conducted at the same time, this report does not discuss the groundwater natural attenuation portion or the soil sampling portion of the pre-design investigations sampling. The results of the pre-design investigations groundwater natural attenuation sampling and soil sampling will be discussed in a separate report.

1.1 SITE LOCATION AND DESCRIPTION

The Former Fairfax I Plant Site is located at 100 Kindelberger Road in Kansas City, Kansas in an industrial area known as the Fairfax District. The Site is located south of a bend in the Missouri River, with the river located north, east, and southeast of the Site. A levee is present between the Site and the Missouri River. The Site location is shown on Figure 1.1, and the Site plan is shown on Figure 1.2.

The Fairfax I Plant is no longer operating and was decommissioned in 1987. Previously the facility consisted of several buildings totaling approximately 2.2 million square feet of covered work area on a Site comprised of roughly 132 acres. As is typical of large industrial facilities, several support buildings, such as a power house, cooling towers, and maintenance areas, were present along with above and below ground product tanks and various waste storage areas.

1.2 ENVIRONMENTAL SETTING

The Site is located in the floodplain of the Missouri River. The geology of underlying soils typically consists of an upper layer of silty clay ranging in thickness from approximately 7 to 15 feet. The silty clay is underlain by fine to medium sands to depths of 25 to 40 feet that grade into medium to coarse sands with some gravel and clay interbeds to depths of 60 to 80 feet. This layer is underlain by medium to coarse sands and gravels to the top of the bedrock. The thick sequence of sands and gravels comprise alluvial deposits that are underlain by shale bedrock at approximately 102 to 117 feet below grade. This was determined during a 1985 subsurface investigation at the adjacent Fairfax II Plant.

The present Missouri River channel follows a deeper valley cut into the bedrock by the ancestral Missouri River.

1.3 OPERATIONAL HISTORY

The Fairfax I Plant consisted of several buildings, a tank farm, rail support, and drum storage areas. The assembly building and former aircraft hangar provided over 2.2 million square feet of covered work space. The U.S. Government constructed the Fairfax I Plant in 1940 for North American Aviation. North American Aviation assembled B-25 bombers at the facility through 1944 for use in World War II. In 1945, GM negotiated a lease for this facility from the U.S. Government and began assembling automobiles. During the Korean conflict GM assembled F84F jet aircraft in addition to continuing to assemble automobiles. GM purchased the facility from the U.S. Government in 1960 and continued automobile assembly operations until 1986/1987. Prior to demolition a number of environmental studies were performed by GM, including monitoring well installation and sampling. Some of these monitoring wells remain on the Fairfax I Plant Site.

1.4 PLANT DECOMMISSIONING

In May of 1987, automobile production at the Site was permanently terminated at the Site. In preparation of the demolition of the buildings associated with this facility an Environmental Site Assessment (ESA) was performed between August of 1987 and January of 1988. Asbestos abatement activities were completed from June to October of

1988. All above ground storage tanks (ASTs) and underground storage tanks (USTs) were cleaned and removed from the Site during this same time period. The demolition of the Site buildings was conducted from July 1988 to May of 1989.

1.5 PREVIOUS INVESTIGATIONS

Previous ESA investigative activities conducted by HDR Engineering, Inc. (HDR) in 1987/1988 focused on, but were not limited to, the following areas which represented the greatest potential for impacted media:

- above ground or underground storage tanks;
- product conveyance lines;
- waste and paint storage areas;
- process sumps;
- refuse burning areas;
- fueling stations; and
- areas where historic spill incidents occurred.

Areas of concern (AOCs), shown on Figure 1.3, were identified for potential investigation during the ESA. Given the nature of the facility, the majority of the areas identified for potential investigation focused on bulk product storage tanks and their associated conveyance lines. Product was historically stored at the Site using a combination of ASTs and USTs. The majority of the USTs were removed concurrent with the performance of the ESA in August 1987. ASTs associated with the Site were also removed later in the decommissioning process.

In general, soil and groundwater samples collected by HDR in 1987/1988 were from the identified AOCs from locations most likely to have been impacted by past Site activities. Sampling locations were determined by HDR based on the past use of the Site, and in conjunction with information previously submitted to KDHE concerning environmental impacts documented during the operation of the Site (i.e., areas where historic spill incidents occurred).

1.5.1 HOLLOW STEM AUGER SOIL SAMPLING

In total, 76 soil borings were advanced during the ESA performed by HDR in 1987/1988. Although these borings were advanced in areas most likely to have been impacted by plant operations, they were also placed to ensure that a representative characterization of the Site was developed during the ESA. Figure 1.4 provides the locations of the borings advanced during the ESA.

Soil borings S-1 through S-41 and S-101 through S-124 were advanced to depths of 30 feet below ground surface (bgs) using hollow stem auger drilling techniques. Soil borings S-101 through S-106, S-109, S-110, S-113, S-123, and S-124 were sampled for stratigraphic logging purposes only. Eleven additional borings (F-11 through F-16 and F-23 through F-26, and F-28) were advanced to 5 feet bgs.

Soil samples were collected from the majority of these borings for chemical analyses using split-spoon sampling procedures at 5-foot intervals to the base of the boring. Soil was taken for analyses from the lower 1.5 feet of each 5-foot interval. The three 5-foot sample intervals from the upper 15 feet of each boring were analyzed. The remaining samples from the lower portion of the boring were archived pending the results from the upper 15 feet of the boring. Samples from borings S-8, S-29, and S-37 were the only borings in which analyses of the lower three sample intervals were requested.

1.5.2 HOLLOW STEM AUGER GROUNDWATER SAMPLING

In addition to soil sampling, groundwater samples were collected by HDR in 1987/1988 from the 30-foot borings during both phases of the investigation. Soil borings S-101 through S-106, S-109, S-110, S-113, S-123, and S-124 were sampled for groundwater only during the January 1988 phase of the investigation. Figure 1.4 provides the boring locations.

Groundwater samples were collected directly from the borehole using the hollow stem augers as casing. Samples were collected using a Teflon bailer and without purging any volume of groundwater prior to sample collection.

1.5.3 THE AREA OF INTEREST

Soil and groundwater contamination was discovered at the north end of the main plant building in the area of a rail spur and an above ground tank farm in 1987 during the

ESA that was completed prior to demolition of the Fairfax I Plant. The primary sources of contamination of soil and groundwater discovered at the Site during the ESA were determined to be gasoline and paint thinner from a tank farm. In addition, suspect historic releases of perchloroethylene (PCE), which likely occurred prior to GM operations (U.S. Government) or from adjacent properties, have been determined.

Subsurface environmental investigations and remediation systems were completed by GM in this Area of Interest (AOI) subsequent to discovery of soil and groundwater contamination. GM initiated its own voluntary cleanup program in 1988, which included semi-annual groundwater monitoring, groundwater contamination plume definition, and remedial design and construction. The remediation system for the small tank farm area included groundwater extraction and treatment by air stripping along with soil vapor extraction and treatment by thermal oxidation. The remedial action was initiated in 1991 and shut down in 1994. The semi-annual groundwater monitoring (which included analysis for benzene, toluene, ethylbenzene, and xylenes (BTEX); and 1,2-dichloroethylene (1,2-DCE)) was also discontinued in 1994.

Groundwater quality data collected in October 1998 by CRA indicated that a localized area of groundwater contaminated by volatile organic compounds (VOCs) remains in this area. Soil and groundwater investigations have delineated the source and extent of this localized area of contamination.

2.0 CONFIRMATORY SAMPLING SCOPE OF WORK

Activities completed at the Site by CRA in December 2004 included:

- Located and marked ten AOCs prior to sampling;
- Collected soil samples from ten AOCs and submitted the samples for laboratory analysis of target compound list (TCL) VOCs, TCL semivolatile organic compounds (SVOCs), and target analyte list (TAL) metals;
- Collected water level measurements from 11 monitoring wells;
- Collected groundwater samples from eight monitoring wells[1] and submitted the samples for laboratory analysis of TCL VOCs, TCL SVOCs, and TAL total metals; and
- Surveyed the soil boring locations for location and elevation.

[1] More wells were planned to be sampled. However, MW-106 has been damaged, MW-107 was not located, MW-103A contained free product, and low water table conditions prevented sampling at MW-102A, MW-104, MW-108, and MW-115A.

3.0 FIELD ACTIVITIES

The following section describes the field procedures and analytical protocols used in the soil and groundwater sampling conducted in December 2004.

3.1 SOIL BORING ADVANCEMENT

Plains Environmental Services (Plains) of Salina, Kansas provided Geoprobe drilling services. A total of ten soil borings were advanced, one in each of the ten AOCs. Each soil boring was advanced to a predetermined depth ranging from 6 to 12 feet bgs. Soil samples were collected continuously for field screening and stratigraphic classification. The soil sample collected at the base of each borehole was submitted for laboratory analysis. Soil boring locations are shown on Figure 3.1.

Before initiating intrusive activities and between each borehole location, down hole equipment was decontaminated using an Alconox™ detergent and potable water wash and a potable water rinse to prevent cross-contamination from the previous location. Decontamination water was collected in a 55-gallon drum and staged on Site pending disposal.

Soil borings were completed using a Geoprobe direct push technology (DPT) rig. Soil borings were sampled continuously in 5-foot intervals using the DPT sampling device.

At each location, drilling proceeded as described below:

i) A decontaminated DPT sampler with acetate liner was driven 5 feet into the soil.

ii) The sampler was retrieved and the acetate liner was removed and cut open.

iii) A representative sample was obtained from the opened sampler and placed in a clean plastic bag for head space analysis. The remaining sample was retained for visual examination, and the sample from the base of the borehole was retained for laboratory analysis. Soils were described according to the Uniform Soil Classification System (USCS).

iv) The soil samples placed in a plastic bag for head space analysis were monitored with a photoionization detector (PID) for total organic vapor content.

v) Soil samples were placed in appropriate laboratory-supplied containers, labeled, and placed in a cooler that contained sealed plastic bags of ice.

vi) Upon completion of each boring, each borehole was backfilled with cement-bentonite grout tremmied from the bottom up. Soil cuttings were collected in a 55-gallon drum and staged on Site pending disposal.

Soil samples were shipped under chain-of-custody protocol to Severn Trent Labs (STL) of North Canton, Ohio via overnight courier.

Stratigraphic logs from the soil borings are presented in Appendix A.

3.2 MONITORING WELL SAMPLING

Groundwater monitoring wells were sampled on December 20 and 21, 2004. As outlined in the September 10, 2004 letter from CRA to KDHE entitled "Amendment to Pre-Design Work Plan", the intent was to sample five monitoring wells, MW-1A, MW-106, MW-107, MW-110, and MW-111. However, only three wells were sampled. Monitoring well MW-106 has been damaged and cannot be sampled, and monitoring well MW-107 was not located. Monitoring well locations are shown on Figure 3.2.

The procedures used for groundwater sampling are summarized below:

i) The depth to water and the total depth were measured at each monitoring well prior to sampling using an electronic water level probe that was decontaminated with Alconox™ and distilled water.

ii) A minimum of three well volumes were purged prior to sampling using an electronic submersible pump or a peristaltic pump. Sample collection occurred once three consistent field parameter readings of pH, conductivity, and temperature were obtained and had stabilized.

iii) Upon stabilization, groundwater samples were collected for analyses of TCL VOCs, TCL SVOCs, and TAL total metals.

iv) Quality assurance/quality control (QA/QC) samples including one duplicate sample and a matrix spike/matrix spike duplicate (MS/MSD) sample were collected during the monitoring well sampling activities.

v) Groundwater samples were collected in laboratory-supplied containers, labeled, and placed in a cooler that contained sealed plastic bags of ice.

Groundwater samples were shipped under chain-of-custody protocol to STL via overnight courier.

Purging parameters are presented in Table 3.1.

3.3 HYDRAULIC MONITORING

On December 20, 2004, water level measurements were obtained from 11 groundwater monitoring wells. Monitoring well locations are shown on Figure 3.2. Water levels were measured to the nearest 0.01 feet using an electronic water level indicator that was decontaminated after each use, and these measurements were recorded in the field logbook.

3.4 DATA VALIDATION

All analytical data were validated and the precision and accuracy of the analyses were assessed based on surrogate spike recoveries, MS/MSD recoveries and relative percent differences, sample/sample duplicate relative percent differences, field duplicate sample results, and check sample results. The results of the data quality assessment and validation procedure indicated that the soil and groundwater data are suitable for the intended use with the qualifications presented in the validation memorandum. Laboratory data and chain-of-custody forms are provided in Appendix B, and a copy of the data validation memorandum is provided in Appendix C.

3.5 SURVEYING

Anderson Survey Company (Anderson) of Lee's Summit, Missouri provided surveying services.

Based on historical facility drawings, historical surveys, and historical photos, Anderson staked the corners of the ten AOCs prior to field work being conducted. After the soil borings were advanced, Anderson surveyed the borehole locations for location and elevation[2]. The horizontal locations were referenced to the GM Plant Grid Coordinate System.

[2] Monitoring wells locations and elevations were surveyed previously by Anderson.

4.0 SUMMARY OF CONFIRMATORY SOIL SAMPLING

Soil samples were collected by CRA in December 2004 at locations identified in previous studies as AOCs. The following provides a brief description of the AOC sampled, the rationale for the sampling, and a summary of samples collected. HDR sample locations are presented on Figure 1.4, and CRA December 2004 sample locations ("SB" designations) are presented on Figure 3.1. The December 2004 soil samples were analyzed for TCL VOCs, TCL SVOCs, and TAL metals.

4.1 UNDERGROUND STORAGE TANKS 1 AND 2

UST 1 contained gasoline and diesel fuel, and UST 2 contained automatic transmission fluid. The tanks, associated soil, and appurtenances were removed in August 1987. HDR collected three soil samples at the base of the excavation at that time. Ethylbenzene at 2,200 micrograms per kilogram (µg/kg) and xylenes at 17,000 µg/kg were detected in one of the soil samples while the other two samples had no detections. Soil from S-39, S-119, and S-120 and groundwater from S-119 and S-120 did not contain VOCs. Toluene was detected in groundwater at S-39 at a concentration of 39 micrograms per liter (µg/L).

CRA collected soil sample SB-111 in the vicinity of USTs 1 and 2 at a depth of 10 to 12 feet bgs to verify that soil at the approximate depth of the base of the tanks is not impacted at levels above KDHE risk based standards.

4.2 UNDERGROUND STORAGE TANKS B AND C

USTs B and C contained gasoline. HDR advanced three borings proximal to the USTs. Soil from boring S-40 did not contain VOCs. VOCs detected in groundwater at S-109 were 1,2-dichloroethene (1,2-DCE) (23 µg/L) and trichloroethene (TCE) (7 µg/L); at S-110 were 1,2-DCE (16 µg/L), TCE (13 µg/L), and tetrachloroethene (PCE) (5 µg/L); and at S-40 was 1,2-DCE (13 µg/L).

CRA collected soil sample SB-112 in the vicinity of USTs B and C at a depth of 10 to 12 feet bgs to verify that soil at the approximate depth of the base of the tanks is not impacted at levels above KDHE risk based standards.

4.3 FUEL ISLAND AND TRUCK MAINTENANCE FACILITY

Five USTs at the fuel island contained gasoline, diesel fuel, lubricating oil, and antifreeze. These five USTs were removed in August 1987. Two of the three soil samples collected from beneath the fuel island had VOCs detected. Sample 87-204 contained ethylbenzene at 15,000 µg/kg and xylenes at 26,000 µg/kg. Sample 87-205 contained xylenes at 620 µg/kg. Three soil and groundwater samples (S-1, S-2, and S-3) collected in August 1987 in the vicinity of the fuel island had no VOC detections.

Four USTs at the truck maintenance facility contained fuel oil and waste oil and were removed August 1987. Soils samples beneath these USTs were not analyzed at that time due to exceeding the sample holding times. Three soil and groundwater samples collected in August 1987 in the vicinity of the truck maintenance building had no VOC detections, with one exception. Groundwater collected from boring S-4 contained benzene (82 µg/L), toluene (40 µg/L), ethylbenzene (63 µg/L), and xylenes (31 µg/L).

This area includes two AOCs, the fuel island and the truck maintenance facility. CRA collected soil samples to verify that soil at the approximate depth of the base of the tanks is not impacted at levels above KDHE risk based standards. Soil sample SB-115 was collected in the vicinity of the fuel island at a depth 10 to 12 feet bgs, and soil sample SB-114 was collected in the vicinity of the truck maintenance facility at a depth 10 to 12 feet bgs.

4.4 UNDERGROUND STORAGE TANK 10 AND BALER ROOM

The baler room was used to collect general plant refuse and contained a large trash compactor/baler. UST 10, which contained unleaded gasoline and was removed August 1987, was located adjacent to the northern exterior wall of the baler room. Soil boring S-8 contained PCE at 10 feet bgs (2,500 µg/kg) and 15 feet bgs (760 µg/kg). Groundwater collected from S-8 contained 1,2-DCE (110/140 µg/L), PCE (160/180 µg/L), and TCE (93/100 µg/L). Soil boring S-9 did not contain VOCs. Groundwater from S-9 contained benzene (25 µg/L) and toluene (14 µg/L). Soil borings S-107 and S-108, installed in January 1988, contained no VOCs. 1,2-DCE was detected in groundwater from S-107 (197/202 µg/L) and S-108 (29 µg/L).

CRA collected soil sample SB-113 in the vicinity of UST 10 and the baler room at a depth of 10 to 12 feet bgs to verify that soil at the approximate depth of the base of the tank is not impacted at levels above KDHE risk based standards.

4.5 POWERHOUSE AREA

Eight USTs in the powerhouse area contained diesel fuel, waste fuel oil, and gasoline. These tanks were removed in August 1987.

Three soil samples were collected beneath USTs 3 and 4. No VOCs were detected in one of the August 1987 soil samples while ethylbenzene was detected at 87-209 (7,300 µg/kg) and toluene was detected in 87-211 (1,200 µg/kg). No VOCs were detected in soil collected at S-15 (August 1987) or S-111 (January 1988). 1,2-DCE was detected in groundwater at S-111 (15 µg/L).

Three soil samples were collected beneath USTs 5, 6, and 11. No VOCs were detected in two of the August 1987 soil samples while PCE (626 µg/kg) and xylenes (1,100 µg/kg) were detected in 87-206. No VOCs were detected in soil collected in August 1987 at S-16, S-17, and S-18 or in soil collected in January 1988 at S-112. No VOCs were detected in groundwater at S-16 and S-18. 1,2-DCE was detected in groundwater at S-17 (16 µg/L) and S-112 (133 µg/L). PCE and 1,2-DCE were detected in groundwater at S-17 (16 µg/L).

No VOCs were detected in soil collected August 1987 in the vicinity of USTs 7, 8, and 9 (samples S-19 through S-22).

Three AOCs (USTs 3 and 4; USTs 5, 6, and 11; and USTs 7, 8, and 9) are located in the powerhouse area. CRA collected soil samples at a depth of 10 to 12 feet bgs to verify that soil at the approximate depth of the base of the tanks is not impacted at levels above KDHE risk based standards. Soil sample SB-110 collected in the vicinity of USTs 3 and 4, soil sample SB-109 was collected in the vicinity of USTs 5, 6, and 11, and soil sample SB-108 was collected in the vicinity of USTs 7, 8, and 9.

4.6 WASTE AND PAINT SLUDGE SUMP

Soil collected in August 1987 at boring S-37 at 15 feet bgs contained toluene (3,000 µg/kg), ethylbenzene (870 µg/kg), and xylenes (1,800 µg/kg). Soil collected at 20 feet bgs contained only toluene (650 µg/kg). No VOCs were detected in groundwater at S-37 or in soil or groundwater at boreholes S-121 and S-122, installed in January 1988.

CRA collected soil sample SB-116 at a depth of 4 to 6 feet bgs to verify that soil in the vicinity of the sump is not impacted at levels above KDHE risk based standards.

4.7 PAINT MIX AND SLUDGE STORAGE/PAINT SLUDGE OVERFLOW TANKS

No VOCs were detected in soil and groundwater collected in August 1987 at borehole S-38 which was placed near these tanks.

CRA collected soil sample SB-117 at a depth of 4 to 6 feet bgs to verify that soil in this area is not impacted at levels above KDHE risk based standards.

5.0 INVESTIGATIVE RESULTS

5.1 SOIL ANALYTICAL DATA

Soil analytical results were compared to KDHE Tier 2 non-residential scenario soil pathway and soil to groundwater protection pathway values.[3] Soil analytical data are summarized in Table 5.1 and on Figure 5.1. STL analytical data are provided in Appendix B.

5.1.1 UNDERGROUND STORAGE TANKS 1 AND 2

No VOCs or SVOCs were detected at concentrations above KDHE Tier 2 values at SB-111. Arsenic was detected above the Tier 2 soil to groundwater protection pathway value of 5.84 mg/kg at a concentration of 8.5 mg/kg at a depth of 10 to 12 feet bgs.

5.1.2 UNDERGROUND STORAGE TANKS B AND C

No VOCs, SVOCs, or metals were detected at concentrations above Tier 2 values at SB-112.

5.1.3 FUEL ISLAND AND TRUCK MAINTENANCE FACILITIES

No VOCs or SVOCs were detected at concentrations above Tier 2 values at SB-114 (truck maintenance facility) and SB-115 (fuel island). Arsenic was detected above the Tier 2 soil to groundwater protection pathway value of 5.84 mg/kg at a concentration of 6.7 mg/kg at SB-114 at a depth of 10 to 12 feet bgs and at a concentration of 6.6 mg/kg at SB-115 at a depth of 10 to 12 feet bgs.

5.1.4 UNDERGROUND STORAGE TANK 10 AND BALER ROOM

No VOCs, SVOCs, or metals were detected at concentrations above Tier 2 values at SB-113.

[3] Estimated detection concentrations were not considered exceedences of the Tier 2 objectives.

5.1.5 POWERHOUSE AREA

No SVOCs or metals were detected at concentrations above Tier 2 values at SB-110. PCE was detected above the soil to groundwater protection pathway value of 0.18 mg/kg at a concentration of 0.19 mg/kg at a depth of 10 to 12 feet bgs.

No VOCs, SVOCs, or metals were detected at concentrations above Tier 2 values at SB-109 or SB-108.

5.1.6 WASTE AND PAINT SLUDGE SUMP

No VOCs or SVOCs were detected at concentrations above Tier 2 values at SB-116. Arsenic was detected above the Tier 2 soil to groundwater protection pathway value of 5.84 mg/kg at a concentration of 6.6 mg/kg at a depth of 10 to 12 feet bgs.

5.1.7 PAINT MIX AND SLUDGE STORAGE/PAINT SLUDGE OVERFLOW TANKS

No VOCs, SVOCs, or metals were detected at concentrations above Tier 2 values at SB-117.

5.2 GROUNDWATER ANALYTICAL DATA

Groundwater analytical results were compared to KDHE Tier 2 non-residential scenario groundwater pathway values.[4] Groundwater analytical data is summarized in Table 5.2 and on Figure 5.2. STL analytical data is provided in Appendix B.

At monitoring well MW-111, cis-1,2-dichloroethene was detected above the Tier 2 value of 0.07 mg/L at a concentration of 0.15 mg/L, and vinyl chloride was detected above the Tier 2 value of 0.002 mg/L at a concentration of 0.017 mg/L.

Bis(2-ethylhexyl)phthalate was detected at monitoring well MW-1A above the Tier 2 value of 0.006 mg/L at a concentration of 0.024 mg/L.

Arsenic was detected at monitoring well MW-1A above the Tier 2 value of 0.01 at a concentration of 0.015 mg/L. Manganese was detected at concentrations above the

[4] Estimated detection concentrations were not considered exceedences of the Tier 2 objectives.

Tier 2 value of 0.05 mg/L at monitoring wells MW-105 (1.5 mg/L) and MW-109 (1.9 mg/L). Selenium was detected at monitoring well MW-1 above the Tier 2 value of 0.05 mg/L at a concentration of 0.19 mg/L.

5.3 HYDRAULIC MONITORING RESULTS

The general groundwater flow direction measured in December 2004 is to the north and east, toward the Missouri River. Groundwater flow direction, however, is seasonal, and is influenced by the amount of precipitation that has occurred and the elevation of the water in the Missouri River.

Groundwater elevation data are summarized in Table 5.3. Figure 5.3 presents the December 2004 groundwater contour map.

6.0 SUMMARY AND CONCLUSIONS

The purpose of the Confirmatory Sampling Program completed at the Fairfax I Site in December 2004 was to verify and validate previous studies and remedial actions completed at AOCs. This sampling program was outlined in CRA's September 10, 2004 Work Plan and focused on a number of AOCs identified at the Site previously. Many of these AOCs included former underground storage tanks, above ground storage tanks, sumps, and other historical operations at the Fairfax I Facility. Soil sample locations and parameters were selected to address each specific AOC. In addition, a round of groundwater sampling from existing wells was also planned in order to evaluate current conditions of groundwater near and around the AOCs.

Soil Data

The results of soil sample analyses from the Confirmatory Sampling Program validated the historical sample data and indicated that each AOC does not pose a risk to human health or the environment. A total of ten soil samples were collected as part of the program with laboratory analyses for the full list of TCL VOCs and SVOCS and TAL metals (over 120 parameters). There were only two parameters, in five soil samples, that were detected above the RSK Tier 2 soil to groundwater protection criteria. PCE was detected (0.19 mg/kg) at one location just slightly above the Tier 2 criteria of 0.18 mg/kg. Arsenic was detected over the Tier 2 criteria of 5.84 mg/kg at four locations (range of 6.6 to 8.5 mg/kg).

The PCE in the soil at this location is expected to be an isolated incident and not representative of the materials handled at this AOC (the powerhouse area where USTs contained fuel oil and gasoline). The arsenic detections are likely a reflection of Site wide conditions and are not related to any activity at these specific AOCs. Arsenic was detected above the Tier 2 soil to groundwater protection criteria at soil boring locations that contained former USTs used for fuels, fuel oils, and petroleum products. The arsenic is not likely associated with the USTS, but with the natural quality of the soils.

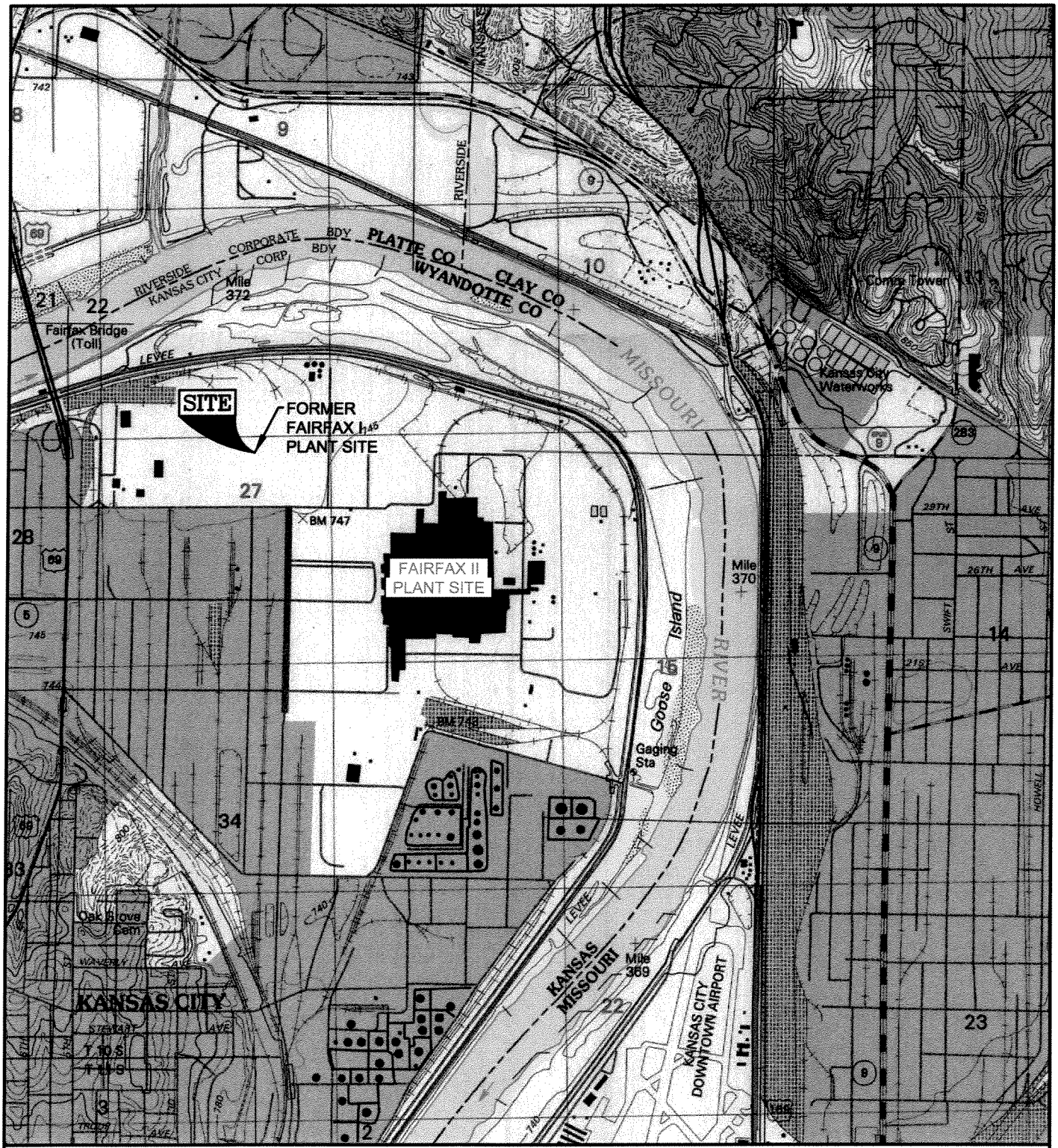
The PCE and arsenic detections above the Tier 2 criteria are not considered to be representative of soils impacted by the AOCs. The PCE and arsenic exceed the Tier 2 soil to groundwater (groundwater protection) criteria. Although the PCE and arsenic detections above the Tier 2 criteria are not considered to be representative of soils impacted by the AOCs, they will be addressed by the groundwater use prohibition (land use restriction) which GM is planning to implement for the Fairfax I property. This prohibition against groundwater use will eliminate any potential hypothetical exposure to the soils containing the PCE and arsenic exceedences.

Groundwater Data

Confirmation sampling data collected from the existing monitoring wells further support previous conclusions reached at the Fairfax I Site, specifically, (1) that there is a localized area of groundwater contamination (and soil contamination) in the vicinity of MW 103A; and (2) that there are plume(s) of VOC migrating onto the Fairfax property from industrial areas located south of the Site. There were isolated incidences of detections of metals (i.e., manganese, arsenic, and selenium) above the Tier 2 criteria in samples of groundwater collected during this event. These metals are considered to be either a result of natural background conditions (e.g., manganese) or due to the regional industrial area located upgradient of the Site. Detections of chlorinated solvents were found above the Tier 2 criteria in MW-111, which is upgradient of sources on the Fairfax I property. The groundwater quality of this well more likely represents the contamination originating from off-Site sources located in the industrial park area south of the Fairfax I property.

The historical exceedences of Tier 2 criteria detected in past sampling events in groundwater near and around MW-103A will be addressed through the remedial program currently being designed by GM. The exceedences in other areas of the Site which are likely a result of either background or of off-Site and upgradient sources will be addressed through the groundwater use prohibition which is planned for the property.

In summary, delineation is complete, and the results of the recently completed soil and groundwater confirmation sampling program have not changed the remedial plans currently being pursued by GM for the Fairfax I property.



BASE SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE;
NORTH KANSAS CITY, MO–KS 1990

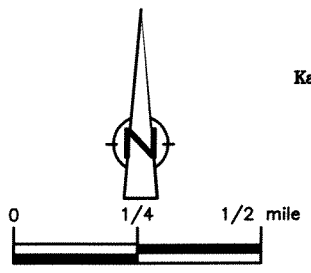


figure 1.1

SITE LOCATION MAP
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

CRA

012559-53(010)GN-CO003 MAR 23/2005

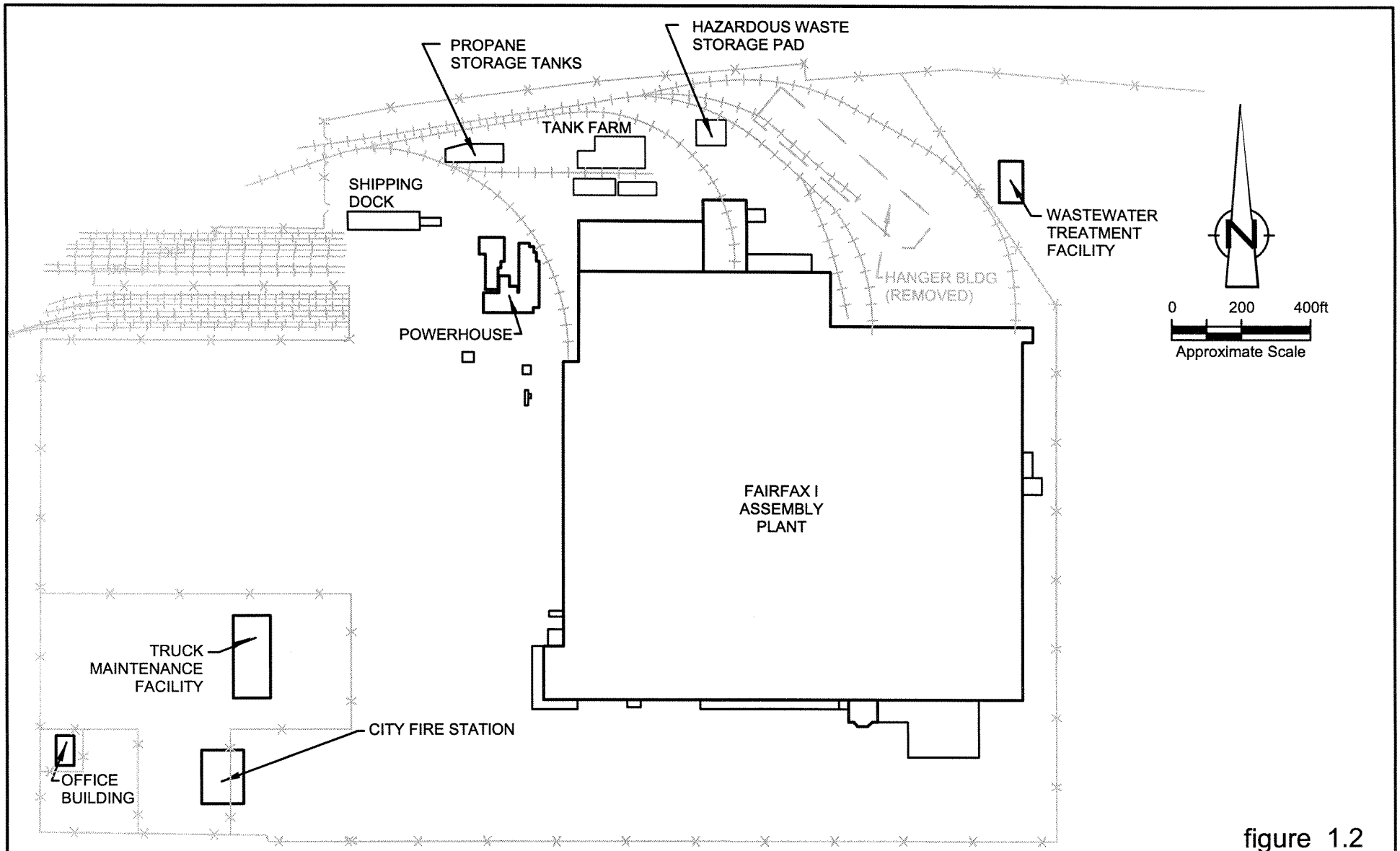


figure 1.2

SITE PLAN
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO004 MAR 23/2005

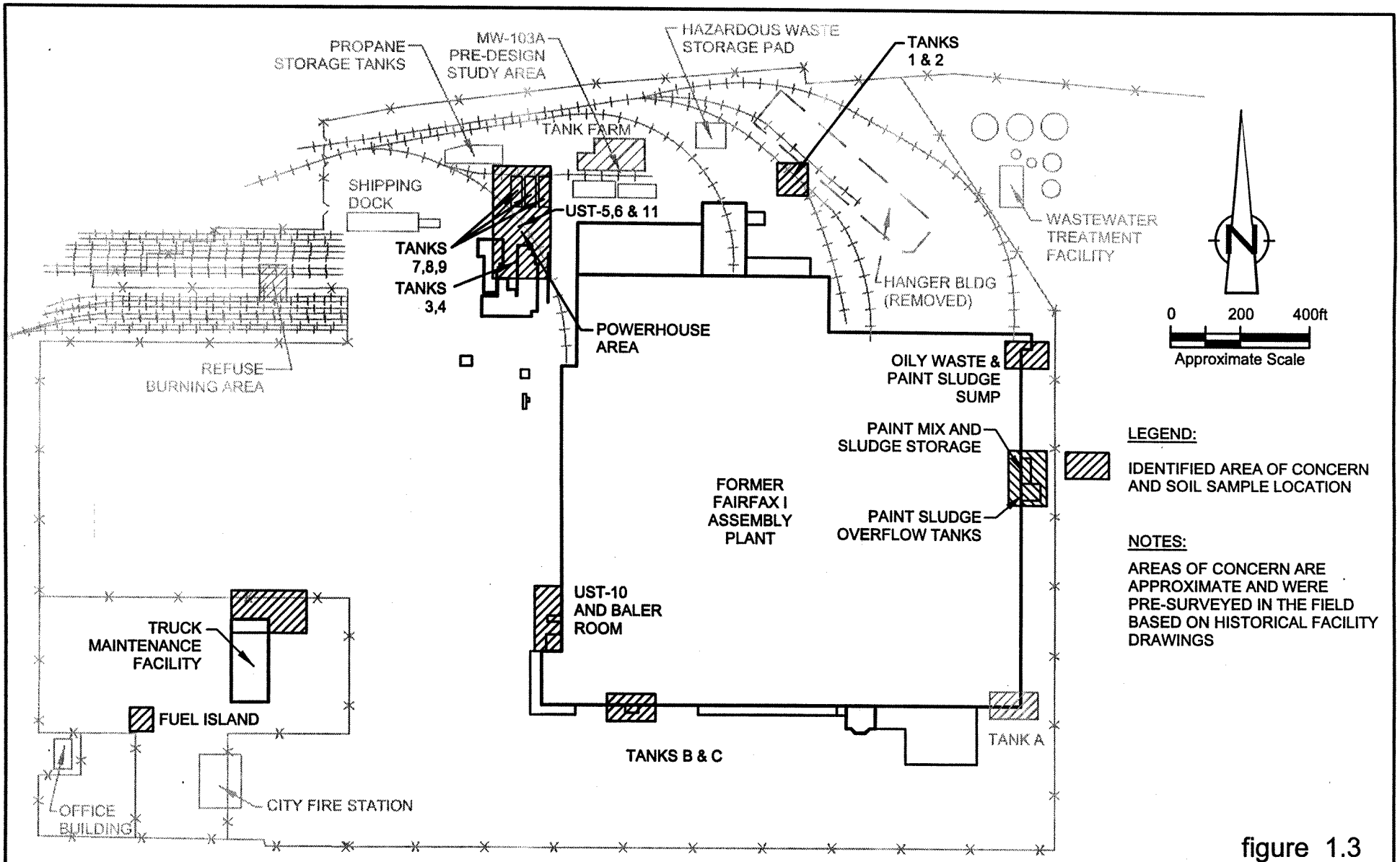


figure 1.3

AREAS OF CONCERN
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO005 MAR 23/2005

HAZARDOUS WASTE STORAGE PAD (INVESTIGATION BY OTHERS)

GASOLINE STORAGE (REMOVED)

COVERED SUMPS WITH METER AND HOSE REEL

TRUCK UNLOADING TO TANK FARM

PROPANE STORAGE TANK

MONITORING WELL INSTALLED 3/87

WASTE WATER TREATMENT PLANT (WWPP)

FLIGHT HANGER BUILDING

TANK FARM

#2E WELL HOUSE

#3E WELL HOUSE

NEW CAR SHIPPING DOCK

RAMP

COOLING TOWERS

SURPLUS EQUIPMENT

TRACK #3 BUILDING

RAMP

UNDERGROUND AQUA SYSTEM (AVATION FUEL)

RAIL SHIPPING BUILDING

EXISTING LEAD STORAGE PAD

OLD FORGING OPERATION

CHASIS SHEET SHEET METAL BUILDING

F.S. STORAGE BUILDING

POWERHOUSE

COVERED SUMP

OILY WASTE & PAINT SLUDGE SUMP

#1E WELL HOUSE

OLD REFUSE BUILDING INCLNERATOR

SCALE

0 100 200ft

Approximate Scale

N

LEGEND:

- PROPOSED MONITORING WELL LOCATION
- ▲ PROPOSED SOIL BORING LOCATION
- EXISTING SOIL BORING LOCATION

NOTE:

REFERENCED FROM HDR ENGINEERING, INC. ENVIRONMENTAL SITE INVESTIGATION PERFORMED 1987-1988

FAIRFAX I ASSEMBLY PLANT

PAINT MIX AND SLUDGE STORAGE

PAINT SLUDGE OVERFLOW TANKS

GM-10 MONITORING WELLS

#3E WELL HOUSE

#2E WELL HOUSE

#1E WELL HOUSE

TRUCK MAINTENANCE BUILDING

TANK #17 UNDERGROUND STEEL TANK

TRUCK MAINT. BUILDING PROCESS WASTE WATER SUMP

OFFICE BUILDING

CITY FIRE STATION (UNDER CONSTRUCTION)

GASOLINE STORAGE (REMOVED)

WATCHMAN HOUSE

WATCHMAN HOUSE

CRA

figure 1.4

HDR SAMPLING LOCATIONS FORMER FAIRFAX I PLANT SITE

Kansas City, Kansas

012559-53(010)GN-CO006 APR 18/2005

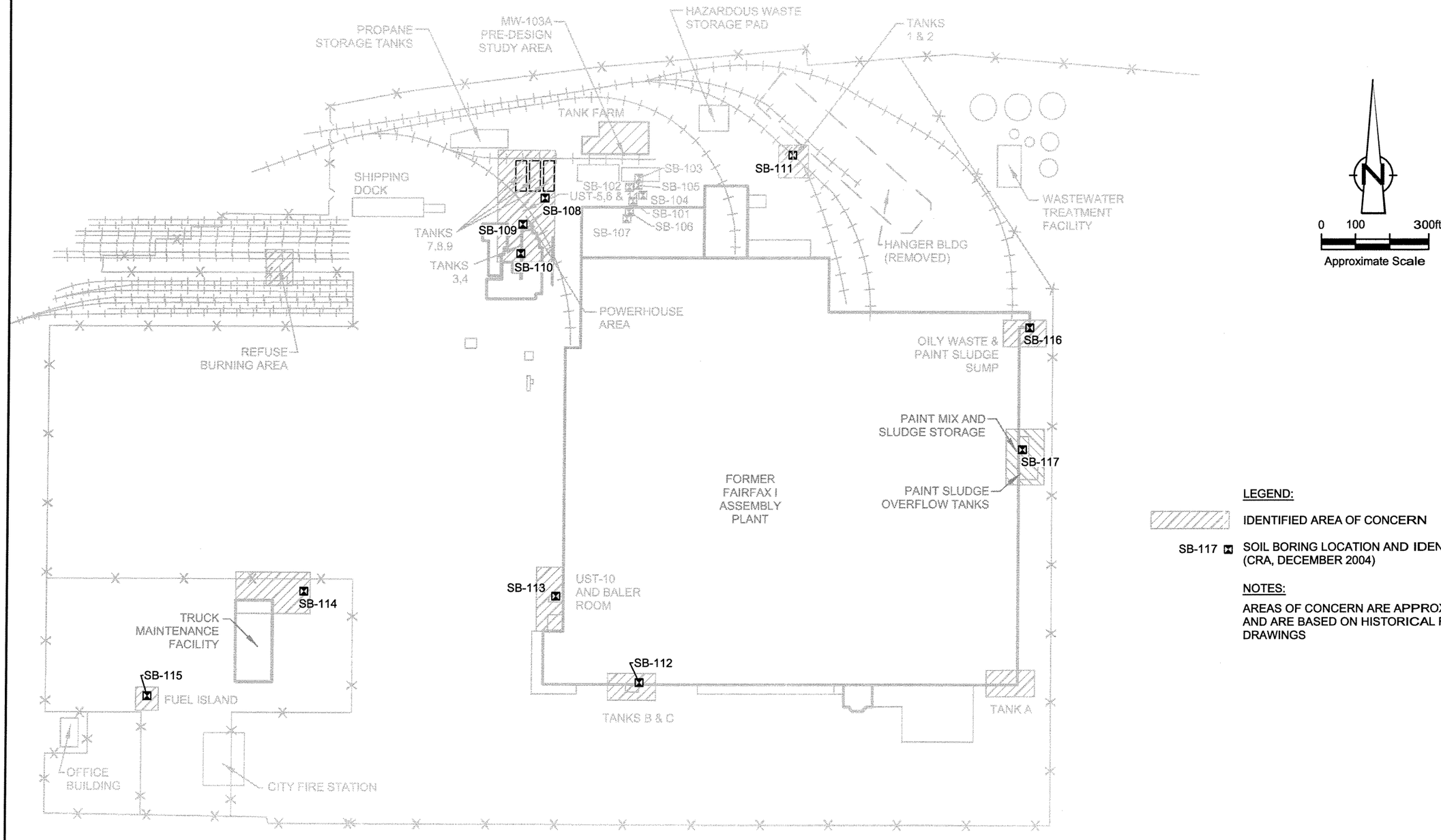


figure 3.1

CRA SOIL SAMPLE LOCATIONS
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO007 APR 18/2005

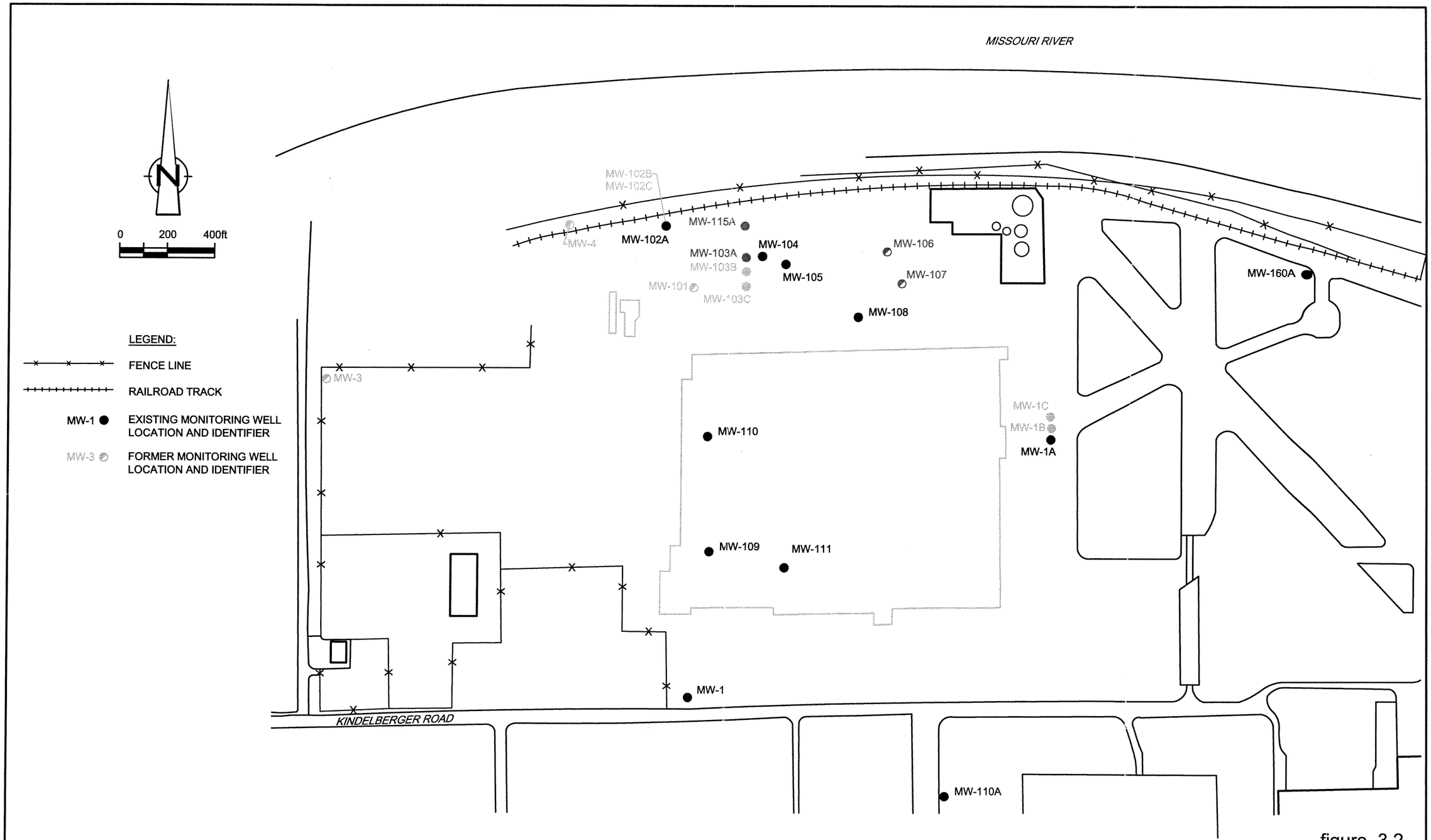
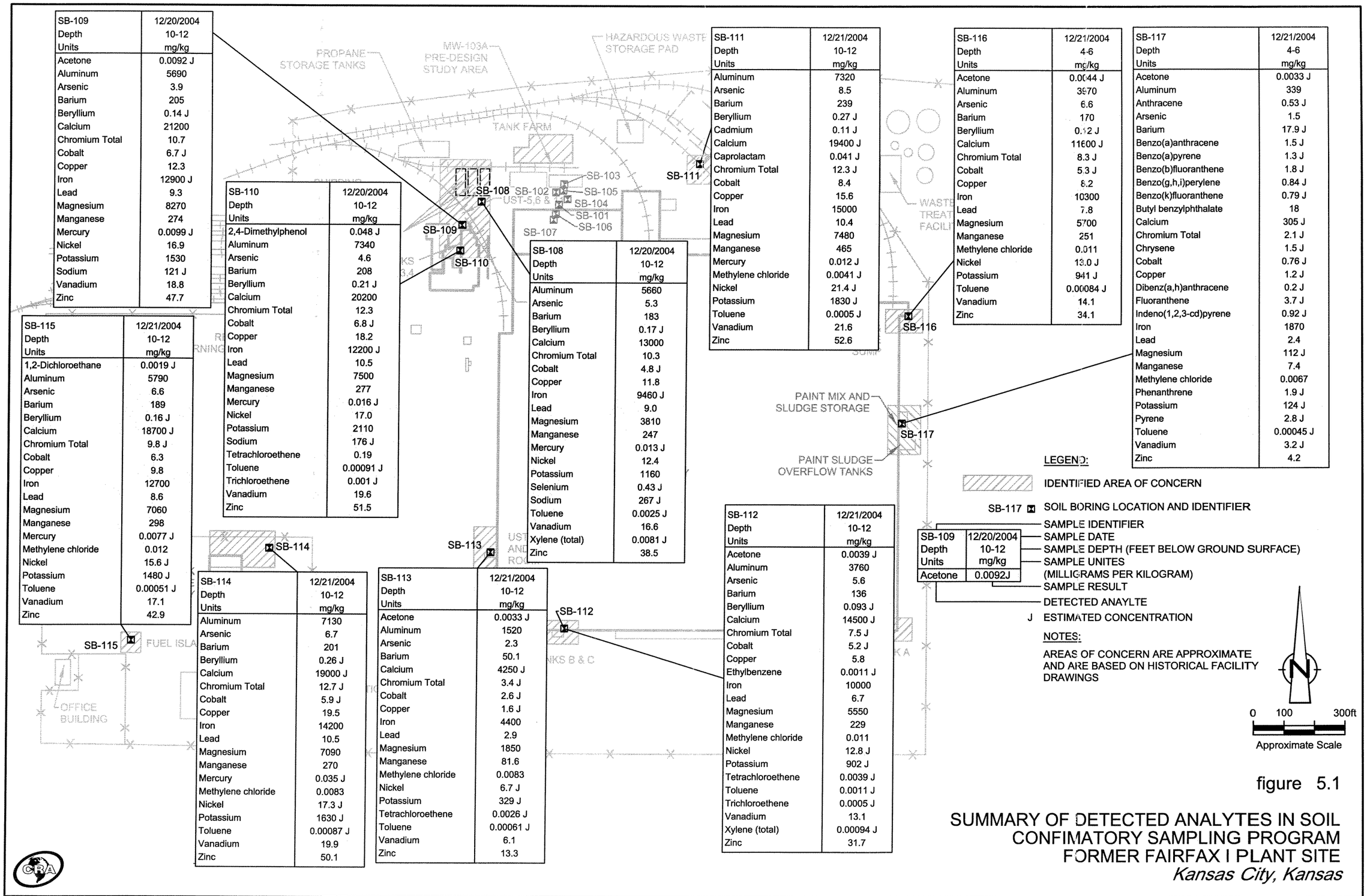


figure 3.2

MONITORING WELL LOCATIONS
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO008 APR 15/2005



SB-109	12/20/2004
Depth	10-12
Units	mg/kg
Acetone	0.0092 J
Aluminum	5690
Arsenic	3.9
Barium	205
Beryllium	0.14 J
Calcium	21200
Chromium Total	10.7
Cobalt	6.7 J
Copper	12.3
Iron	12900 J
Lead	9.3
Magnesium	8270
Manganese	274
Mercury	0.0099 J
Nickel	16.9
Potassium	1530
Sodium	121 J
Vanadium	18.8
Zinc	47.7

SB-110	12/20/2004
Depth	10-12
Units	mg/kg
2,4-Dimethylphenol	0.048 J
Aluminum	7340
Arsenic	4.6
Barium	208
Beryllium	0.21 J
Calcium	20200
Chromium Total	12.3
Cobalt	6.8 J
Copper	18.2
Iron	12200 J
Lead	10.5
Magnesium	7500
Manganese	277
Mercury	0.016 J
Nickel	17.0
Potassium	2110
Sodium	176 J
Tetrachloroethene	0.19
Toluene	0.00091 J
Trichloroethene	0.001 J
Vanadium	19.6
Zinc	51.5

SB-108	12/20/2004
Depth	10-12
Units	mg/kg
Aluminum	5660
Arsenic	5.3
Barium	183
Beryllium	0.17 J
Calcium	13000
Chromium Total	10.3
Cobalt	4.8 J
Copper	11.8
Iron	9460 J
Lead	9.0
Magnesium	3810
Manganese	247
Mercury	0.013 J
Nickel	12.4
Potassium	1160
Selenium	0.43 J
Sodium	267 J
Toluene	0.0025 J
Vanadium	16.6
Xylene (total)	0.0081 J
Zinc	38.5

SB-111	12/21/2004
Depth	10-12
Units	mg/kg
Aluminum	7320
Arsenic	8.5
Barium	239
Beryllium	0.27 J
Cadmium	0.11 J
Calcium	19400 J
Caprolactam	0.041 J
Chromium Total	12.3 J
Cobalt	8.4
Copper	15.6
Iron	15000
Lead	10.4
Magnesium	7480
Manganese	465
Mercury	0.012 J
Methylene chloride	0.0041 J
Nickel	21.4 J
Potassium	1830 J
Toluene	0.0005 J
Vanadium	21.6
Zinc	52.6

SB-116	12/21/2004
Depth	4-6
Units	mg/kg
Acetone	0.0044 J
Aluminum	3970
Arsenic	6.6
Barium	170
Beryllium	0.12 J
Calcium	11600 J
Chromium Total	8.3 J
Cobalt	5.3 J
Copper	8.2
Iron	10300
Lead	7.8
Magnesium	5700
Manganese	251
Methylene chloride	0.011
Nickel	13.0 J
Potassium	941 J
Toluene	0.00084 J
Vanadium	14.1
Zinc	34.1

SB-117	12/21/2004
Depth	4-6
Units	mg/kg
Acetone	0.0033 J
Aluminum	339
Anthracene	0.53 J
Arsenic	1.5
Barium	17.9 J
Benzo(a)anthracene	1.5 J
Benzo(a)pyrene	1.3 J
Benzo(b)fluoranthene	1.8 J
Benzo(g,h,i)perylene	0.84 J
Benzo(k)fluoranthene	0.79 J
Butyl benzylphthalate	18
Calcium	305 J
Chromium Total	2.1 J
Chrysene	1.5 J
Cobalt	0.76 J
Copper	1.2 J
Dibenz(a,h)anthracene	0.2 J
Fluoranthene	3.7 J
Indeno(1,2,3-cd)pyrene	0.92 J
Iron	1870
Lead	2.4
Magnesium	112 J
Manganese	7.4
Methylene chloride	0.0067
Phenanthrene	1.9 J
Potassium	124 J
Pyrene	2.8 J
Toluene	0.00045 J
Vanadium	3.2 J
Zinc	4.2

SB-115	12/21/2004
Depth	10-12
Units	mg/kg
1,2-Dichloroethane	0.0019 J
Aluminum	5790
Arsenic	6.6
Barium	189
Beryllium	0.16 J
Calcium	18700 J
Chromium Total	9.8 J
Cobalt	6.3
Copper	9.8
Iron	12700
Lead	8.6
Magnesium	7060
Manganese	298
Mercury	0.0077 J
Methylene chloride	0.012
Nickel	15.6 J
Potassium	1480 J
Toluene	0.00051 J
Vanadium	17.1
Zinc	42.9

SB-114	12/21/2004
Depth	10-12
Units	mg/kg
Aluminum	7130
Arsenic	6.7
Barium	201
Beryllium	0.26 J
Calcium	19000 J
Chromium Total	12.7 J
Cobalt	5.9 J
Copper	19.5
Iron	14200
Lead	10.5
Magnesium	7090
Manganese	270
Mercury	0.035 J
Methylene chloride	0.0083
Nickel	17.3 J
Potassium	1630 J
Toluene	0.00087 J
Vanadium	19.9
Zinc	50.1

SB-113	12/21/2004
Depth	10-12
Units	mg/kg
Acetone	0.0033 J
Aluminum	1520
Arsenic	2.3
Barium	50.1
Calcium	4250 J
Chromium Total	3.4 J
Cobalt	2.6 J
Copper	1.6 J
Iron	4400
Lead	2.9
Magnesium	1850
Manganese	81.6
Methylene chloride	0.0083
Nickel	6.7 J
Potassium	329 J
Tetrachloroethene	0.0026 J
Toluene	0.00061 J
Vanadium	6.1
Zinc	13.3

SB-112	12/21/2004
Depth	10-12
Units	mg/kg
Acetone	0.0039 J
Aluminum	3760
Arsenic	5.6
Barium	136
Beryllium	0.093 J
Calcium	14500 J
Chromium Total	7.5 J
Cobalt	5.2 J
Copper	5.8
Ethylbenzene	0.0011 J
Iron	10000
Lead	6.7
Magnesium	5550
Manganese	229
Methylene chloride	0.011
Nickel	12.8 J
Potassium	902 J
Tetrachloroethene	0.0039 J
Toluene	0.0011 J
Trichloroethene	0.0005 J
Vanadium	13.1
Xylene (total)	0.00094 J
Zinc	31.7

LEGEND:

IDENTIFIED AREA OF CONCERN

SB-117 SOIL BORING LOCATION AND IDENTIFIER

SB-109	12/20/2004	SAMPLE IDENTIFIER
Depth	10-12	SAMPLE DATE
Units	mg/kg	SAMPLE DEPTH (FEET BELOW GROUND SURFACE)
Acetone	0.0092J	SAMPLE UNITES (MILLIGRAMS PER KILOGRAM)
		SAMPLE RESULT
		DETECTED ANAYLTE

J ESTIMATED CONCENTRATION

NOTES:

AREAS OF CONCERN ARE APPROXIMATE AND ARE BASED ON HISTORICAL FACILITY DRAWINGS

N

0 100 300ft

Approximate Scale

figure 5.1

SUMMARY OF DETECTED ANALYTES IN SOIL CONFIMATORY SAMPLING PROGRAM FORMER FAIRFAX I PLANT SITE

Kansas City, Kansas

012559-53(010)GN-CO002 FEB 24/2005

N

0 200 400ft

LEGEND:

FENCE LINE

RAILROAD TRACK

MW-1 ● EXISTING MONITORING WELL LOCATION AND IDENTIFIER

MW-3 ⊘ FORMER MONITORING WELL LOCATION AND IDENTIFIER

MW-1A	12/21/2004
Units	mg/L
Acetophenone	1.5 J

SAMPLE IDENTIFIER
SAMPLE DATE
SAMPLE UNITS (MILLIGRAMS PER LITER)
SAMPLE RESULT
DETECTED ANAYLTE
J ESTIMATED CONCENTRATION

MW-102B
MW-102C
MW-102A
MW-4
MW-115A
MW-103A
MW-103B
MW-103C
MW-101
MW-104
MW-105
MW-106
MW-107
MW-108

MW-105	12/20/2004
Units	mg/L
2,4-Dimethylphenol	0.55 J
2,6-Dinitrotoluene	1.0 J
Acetophenone	0.53 J
Arsenic	0.0062 J
Barium	0.24
bis(2-Ethylhexyl)phthalate	2.3 J
Calcium	172
cis-1,2-Dichloroethene	6.3
Cobalt	0.0034 J
Iron	10.4
Magnesium	43.1
Manganese	1.5
Nickel	0.0052 J
Potassium	10.2 J
Selenium	0.0076
Sodium	71.8

MW-160A	12/21/2004
Units	mg/L
Barium	0.23
Beryllium	0.00070 J
Calcium	228
Cobalt	0.0014 J
Di-n-butylphthalate	1.2 J
Iron	30.9
Magnesium	31.6 J
Manganese	2.4 J
Potassium	7.5 J
Sodium	6.3

MW-160A

MW-3

MW-110	12/21/2004
Units	mg/L
Acetophenone	1.3 J
Barium	0.69
Calcium	124
cis-1,2-Dichloroethene	0.74 J
Iron	14.1
Magnesium	33.3 J
Manganese	1.4 J
Potassium	8.1 J
Sodium	88.1

MW-110

MW-1C
MW-1B
MW-1A

MW-1A	12/21/2004
Units	mg/L
Acetophenone	1.5 J
Arsenic	0.015
Barium	0.33
Beryllium	0.00079 J
bis(2-Ethylhexyl)phthalate	24
Calcium	129
Caprolactam	1.3 J
Carbon disulfide	0.74 J
cis-1,2-Dichloroethene	0.87 J
Di-n-butylphthalate	1.8 J
Iron	17.5
Magnesium	35.1 J
Manganese	1.7 J
Phenol	6.2 J
Potassium	7.7 J
Selenium	0.0048 J
Sodium	43.5

MW-110A	12/21/2004
Units	mg/L
Barium	0.19 J
Beryllium	0.00078 J
Calcium	159
cis-1,2-Dichloroethene	4.0
Cobalt	0.0035 J
Iron	0.57
Magnesium	48.3 J
Manganese	1.5 J
Nickel	0.0090 J
Phenol	4.5 J
Potassium	9.5 J
Selenium	0.026
Sodium	84.7
Tetrachloroethene	4.8
trans-1,2-Dichloroethene	0.21 J
Trichloroethene	1.9

MW-110A

MW-109

MW-109	12/21/2004
Units	mg/L
Acetone	2.2 J
Aluminum	0.085 J
Arsenic	0.0029 J
Barium	0.094 J
Cadmium	0.00047 J
Calcium	201
Caprolactam	1.1 J
cis-1,2-Dichloroethene	20
Cobalt	0.0037 J
Copper	0.0023 J
Iron	1.2 J
Magnesium	46.1 J
Manganese	1.9
Nickel	0.015 J
Potassium	11.6
Selenium	0.037
Sodium	32.1
trans-1,2-Dichloroethene	1.3
Vinyl chloride	1.0

MW-1

MW-1	12/21/2004
Units	mg/L
Acetophenone	2.4 J
Barium	0.16 J
Calcium	204
cis-1,2-Dichloroethene	0.36 J
Cobalt	0.0074 J
Di-n-butylphthalate	2.8 J
Iron	0.096 J
Lead	0.0086
Magnesium	49.0 J
Manganese	1.5 J
Nickel	0.014 J
Phenol	12
Potassium	9.6 J
Selenium	0.19
Sodium	45.7

MW-111

MW-111	12/21/2004
Units	mg/L
Acetophenone	3.9 J
Arsenic	0.0035 J
Barium	0.50
Calcium	176
Caprolactam	0.91 J
cis-1,2-Dichloroethene	150
Iron	23.2 J
Magnesium	50.9 J
Manganese	1.7 J
Potassium	7.1
Sodium	30.1
Thallium	0.0051 J
trans-1,2-Dichloroethene	11
Vinyl chloride	17

figure 5.2

SUMMARY OF DETECTED ANALYTES IN GROUNDWATER
CONFIRMATORY SAMPLING PROGRAM
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO001 MAR 09/2005

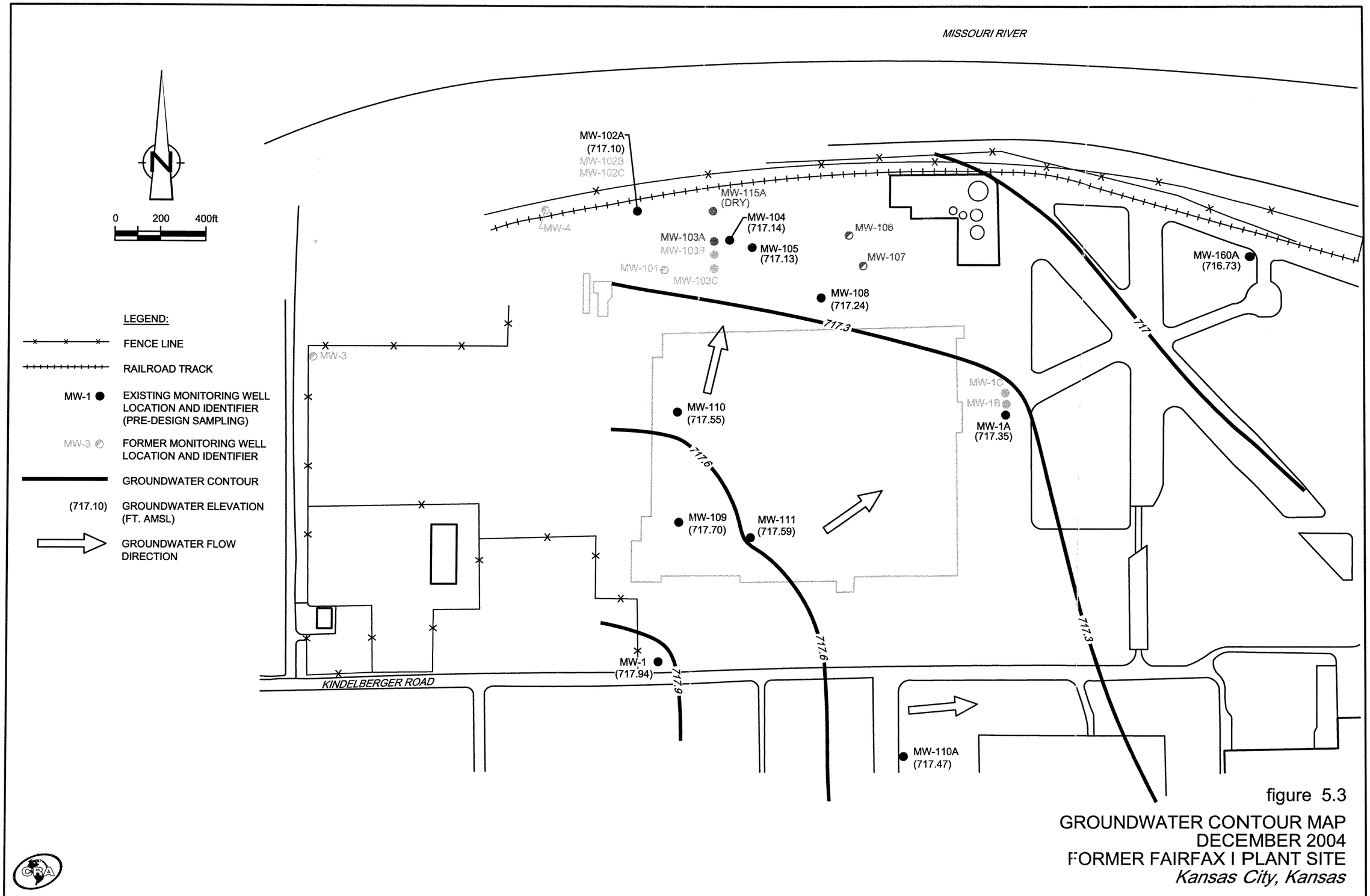


figure 5.3

GROUNDWATER CONTOUR MAP
DECEMBER 2004
FORMER FAIRFAX I PLANT SITE
Kansas City, Kansas

012559-53(010)GN-CO009 APR 15/2005

TABLE 3.1

SUMMARY OF MONITORING WELL PURGING PARAMETERS
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Well Number	*Date Conducted*	*Depth to Water (ft BTOC)* [1]	*Total Depth (ft BTOC)*	*Well Volume (gallons)*	*Volume Removed (gallons)*	*pH (standard units)*	*Conductivity (µS/cm)* [2]	*Temperature (°C)* [3]	*Dissolved Oxygen (mg/L)* [4]	*ORP (mV)* [5]	*Pump*
MW-1	12/21/04	28.49	32.25	0.6	1.5	6.87	1,352	16.6	3.25	95.4	Whale
					3.0	6.84	1,355	18.3	0.52	117.6	
					4.5	6.75	1,363	18.3	NM [6]	119.2	
MW-1A	12/21/04	28.58	37.19	1.4	3	7.14	926	15.1	0.58	NM	Whale
					4	7.04	926	15.2	0.25	NM	
					6	7.00	931	15.2	0.16	-111.5	
					8	7.00	931	15.2	0.14	-112.0	
MW-105	12/20/04	29.37	32.75	0.5	0.5	7.05	1,391	13.4	5.5	-30.7	Whale
					1.0	6.87	1,402	14.7	NM	-51.9	
					1.5	6.82	1,405	15.0	NM	NM	
					2.0	6.78	1,404	15.1	NM	NM	
					2.5	6.77	1,402	15.1	NM	-67.6	
MW-109	12/21/04	28.41	32.50	0.7	1.25	6.83	1,302	14.6	NM	76.7	Peristaltic
					2.50	6.76	1,348	15.6	0.9	61.2	
					3.75	6.75	1,357	15.6	0.7	59.2	
					5.00	6.94	1,359	15.7	0.5	73.8	
MW-110	12/21/04	28.24	63.71	5.7	6	7.10	1,270	14.4	0.3	-126.0	Whale
					12	7.10	1,270	14.6	0.65	-144.5	
					17	7.00	1,260	14.7	0.25	-150.3	

TABLE 3.1

SUMMARY OF MONITORING WELL PURGING PARAMETERS
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Well Number	*Date Conducted*	*Depth to Water (ft BTOC)* [1]	*Total Depth (ft BTOC)*	*Well Volume (gallons)*	*Volume Removed (gallons)*	*pH (standard units)*	*Conductivity (µS/cm)* [2]	*Temperature (°C)* [3]	*Dissolved Oxygen (mg/L)* [4]	*ORP (mV)* [5]	*Pump*
MW-110A	12/21/04	26.42	36.45	1.6	4	6.90	1,295	16.9	0.67	45.7	Whale
					6	6.85	1,300	17.0	0.55	37.8	
					7	6.82	1,303	17.0	0.40	31.4	
MW-111	12/21/04	28.37	61.10	5.2	6	6.92	1,351	16.9	0.12	NM	Whale
					12	6.87	1,379	15.1	0.5	NM	
					19	6.86	1,381	15.1	0.3	-50.2	
MW-160A	12/21/04	29.83	37.55	1.2	1.6	6.75	1,336	16.0	0.38	-91.2	Peristaltic
					3	6.78	1,353	16.2	0.33	-99.9	
					5	6.78	1,342	16.4	0.39	-110.5	
					7	6.78	1,349	16.4	0.37	-113.5	
					10	6.39	1,360	13.4	0.37	-118.2	

[1] ft BTOC - feet below top of casing
[2] µS/cm - microsiemens per centimeter
[3] °C - degrees celcius
[4] mg/L - milligrams per liter
[5] ORP (mV) - oxidation-reduction potential (millivolts)
[6] NM - not measured

TABLE 5.1

SUMMARY OF SOIL DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*SB-108*	*SB-109*	*SB-110*	*SB-111*	*SB-112*
Sample ID:		*S-122004-DS-115*	*S-122004-DS-116*	*S-122004-DS-117*	*S-122104-DS-118*	*S-122104-DS-119*
Sample Date:	*RSK*[1]	*12/20/2004*	*12/20/2004*	*12/20/2004*	*12/21/2004*	*12/21/2004*
Sample Depth (ft bgs)[2]*:*	*Tier 2*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*
Parameters (mg/kg)[3]*:*						
Volatile Organic Compounds						
1,2-Dichloroethane	0.04	0.0046 U[4]	0.0065 U	0.0063 U	0.0061 U	0.0061 U
Acetone	3.8	0.018 U	0.0092 J[5]	0.025 U	0.025 U	0.0039 J
Ethylbenzene	55	0.0046 U	0.0065 U	0.0063 U	0.0061 U	0.0011 J
Methylene chloride	0.03	0.0046 U	0.0065 U	0.0063 U	0.0041 J	0.011
Tetrachloroethene	0.18	0.0046 U	0.0065 U	**0.19**[6]	0.0061 U	0.0039 J
Toluene	40	0.0025 J	0.0065 U	0.00091 J	0.0005 J	0.0011 J
Trichloroethene	0.20	0.0046 U	0.0065 U	0.001 J	0.0061 U	0.0005 J
Xylene (total)	700	0.0081 J	0.013 U	0.013 U	0.012 U	0.00094 J
Semivolatile Organic Compounds						
2,4-Dimethylphenol	81	0.39 U	0.45 U	0.048 J	0.44 U	0.41 U
Anthracene	13	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Benzo(a)anthracene	26	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Benzo(a)pyrene	2.6	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Benzo(b)fluoranthene	19	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Benzo(g,h,i)perylene	NS[7]	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Benzo(k)fluoranthene	10	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Butyl benzylphthalate	1500	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Caprolactam	NS	0.39 U	0.45 U	0.45 U	0.041 J	0.41 U
Chrysene	6.4	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Dibenz(a,h)anthracene	2.6	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Fluoranthene	220	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Indeno(1,2,3-cd)pyrene	0.76	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Phenanthrene	NS	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U
Pyrene	140	0.39 U	0.45 U	0.45 U	0.44 U	0.41 U

TABLE 5.1

SUMMARY OF SOIL DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*SB-108*	*SB-109*	*SB-110*	*SB-111*	*SB-112*
Sample ID:		*S-122004-DS-115*	*S-122004-DS-116*	*S-122004-DS-117*	*S-122104-DS-118*	*S-122104-DS-119*
Sample Date:	*RSK*[1]	*12/20/2004*	*12/20/2004*	*12/20/2004*	*12/21/2004*	*12/21/2004*
Sample Depth (ft bgs)[2]*:*	*Tier 2*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*
Parameters (mg/kg)[3]*:*						
Metals						
Aluminum	NS	5660	5690	7340	7320	3760
Arsenic	5.84	5.3	3.9	4.6	8.5	5.6
Barium	140000	183	205	208	239	136
Beryllium	4100	0.17 J	0.14 J	0.21 J	0.27 J	0.093 J
Cadmium	1000	0.20 U	0.15 U	0.19 U	0.11 J	0.61 U
Calcium	NS	13000	21200	20200	19400 J	14500 J
Chromium Total	4000	10.3	10.7	12.3	12.3 J	7.5 J
Cobalt	NS	4.8 J	6.7 J	6.8 J	8.4	5.2 J
Copper	76000	11.8	12.3	18.2	15.6	5.8
Iron	NS	9460 J	12900 J	12200 J	15000	10000
Lead	1000	9.0	9.3	10.5	10.4	6.7
Magnesium	NS	3810	8270	7500	7480	5550
Manganese	95000	247	274	277	465	229
Mercury	20	0.013 J	0.0099 J	0.016 J	0.012 J	0.12 U
Nickel	41000	12.4	16.9	17.0	21.4 J	12.8 J
Potassium	NS	1160	1530	2110	1830 J	902 J
Selenium	10000	0.43 J	0.68 U	0.69 U	0.67 U	0.61 U
Sodium	NS	267 J	121 J	176 J	189 U	121 U
Vanadium	14000	16.6	18.8	19.6	21.6	13.1
Zinc	610000	38.5	47.7	51.5	52.6	31.7

TABLE 5.1

SUMMARY OF SOIL DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*SB-113*	*SB-114*	*SB-115*	*SB-116*	*SB-117*
Sample ID:		*S-122104-DS-120*	*S-122104-DS-121*	*S-122104-DS-122*	*S-122104-DS-123*	*S-122104-DS-124*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*
Sample Depth (ft bgs)[2]*:*	*Tier 2*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*4 - 6 ft*	*4 - 6 ft*
Parameters (mg/kg)[3]*:*						
Volatile Organic Compounds						
1,2-Dichloroethane	0.04	0.0057 U	0.006 U	0.0019 J	0.0079 U	0.0048 U
Acetone	3.8	0.0033 J	0.024 U	0.023 U	0.0044 J	0.0033 J
Ethylbenzene	55	0.0057 U	0.006 U	0.0059 U	0.0079 U	0.0048 U
Methylene chloride	0.03	0.0083	0.0083	0.012	0.011	0.0067
Tetrachloroethene	0.18	0.0026 J	0.006 U	0.0059 U	0.0079 U	0.0048 U
Toluene	40	0.00061 J	0.00087 J	0.00051 J	0.00084 J	0.00045 J
Trichloroethene	0.20	0.0057 U	0.006 U	0.0059 U	0.0079 U	0.0048 U
Xylene (total)	700	0.011 U	0.012 U	0.012 U	0.016 U	0.0096 U
Semivolatile Organic Compounds						
2,4-Dimethylphenol	81	0.35 U	0.46 U	0.41 U	0.42 U	4.2 U
Anthracene	13	0.35 U	0.46 U	0.41 U	0.42 U	0.53 J
Benzo(a)anthracene	26	0.35 U	0.46 U	0.41 U	0.42 U	1.5 J
Benzo(a)pyrene	2.6	0.35 U	0.46 U	0.41 U	0.42 U	1.3 J
Benzo(b)fluoranthene	19	0.35 U	0.46 U	0.41 U	0.42 U	1.8 J
Benzo(g,h,i)perylene	NS[7]	0.35 U	0.46 U	0.41 U	0.42 U	0.84 J
Benzo(k)fluoranthene	10	0.35 U	0.46 U	0.41 U	0.42 U	0.79 J
Butyl benzylphthalate	1500	0.35 U	0.46 U	0.41 U	0.42 U	18
Caprolactam	NS	0.35 U	0.46 U	0.41 U	0.42 U	4.2 U
Chrysene	6.4	0.35 U	0.46 U	0.41 U	0.42 U	1.5 J
Dibenz(a,h)anthracene	2.6	0.35 U	0.46 U	0.41 U	0.42 U	0.2 J
Fluoranthene	220	0.35 U	0.46 U	0.41 U	0.42 U	3.7 J
Indeno(1,2,3-cd)pyrene	0.76	0.35 U	0.46 U	0.41 U	0.42 U	0.92 J
Phenanthrene	NS	0.35 U	0.46 U	0.41 U	0.42 U	1.9 J
Pyrene	140	0.35 U	0.46 U	0.41 U	0.42 U	2.8 J

TABLE 5.1

SUMMARY OF SOIL DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*SB-113*	*SB-114*	*SB-115*	*SB-116*	*SB-117*
Sample ID:		*S-122104-DS-120*	*S-122104-DS-121*	*S-122104-DS-122*	*S-122104-DS-123*	*S-122104-DS-124*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*
Sample Depth (ft bgs)[2]*:*	*Tier 2*	*10 - 12 ft*	*10 - 12 ft*	*10 - 12 ft*	*4 - 6 ft*	*4 - 6 ft*
Parameters (mg/kg)[3]*:*						
Metals						
Aluminum	NS	1520	7130	5790	3970	339
Arsenic	5.84	2.3	6.7	6.6	6.6	1.5
Barium	140000	50.1	201	189	170	17.9 J
Beryllium	4100	0.52 U	0.26 J	0.16 J	0.12 J	0.51 U
Cadmium	1000	0.52 U	0.70 U	0.62 U	0.63 U	0.51 U
Calcium	NS	4250 J	19000 J	18700 J	11600 J	305 J
Chromium Total	4000	3.4 J	12.7 J	9.8 J	8.3 J	2.1 J
Cobalt	NS	2.6 J	5.9 J	6.3	5.3 J	0.76 J
Copper	76000	1.6 J	19.5	9.8	8.2	1.2 J
Iron	NS	4400	14200	12700	10300	1870
Lead	1000	2.9	10.5	8.6	7.8	2.4
Magnesium	NS	1850	7090	7060	5700	112 J
Manganese	95000	81.6	270	298	251	7.4
Mercury	20	0.10 U	0.035 J	0.0077 J	0.13 U	0.10 U
Nickel	41000	6.7 J	17.3 J	15.6 J	13.0 J	1.2 U
Potassium	NS	329 J	1630 J	1480 J	941 J	124 J
Selenium	10000	0.52 U	0.70 U	0.62 U	0.63 U	0.51 U
Sodium	NS	523 U	144 U	154 U	218 U	514 U
Vanadium	14000	6.1	19.9	17.1	14.1	3.2 J
Zinc	610000	13.3	50.1	42.9	34.1	4.2

[1] Risk Based Standards for Kansas (RSK Manual), Appendix A, Tier 2, Non-Residential Scenarios, Kansas Department of Health and Environment, March 1, 2003; the value listed is the lowest objective of the soil and the soil to ground water protection pathways.

[2] ft bgs - feet below ground surface

[3] mg/kg - milligrams per kilogram

[4] U - not detected at the associated value

[5] J - estimated at the associated value

[6] 0.19 - shading denotes exceedence of regulatory standard

[7] NS - no regulatory standard

TABLE 5.2

SUMMARY OF GROUNDWATER DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*MW-1*	*MW-1A*	*MW-105*	*MW-109*	*MW-110*
Sample ID:		*GW-122104-DS-006*	*GW-122104-DS-013*	*GW-122004-DS-003*	*GW-122104-DS-005*	*GW-122104-DS-012*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/20/2004*	*12/21/2004*	*12/21/2004*
QA/QC[2]*:*	*Tier 2*					
Parameters (mg/L)[3]*:*						
Volatile Organic Compounds						
Acetone	0.93	0.01 U[4]	0.01 U	0.01 U	0.0022 J[5]	0.01 U
Carbon disulfide	0.03	0.001 U	0.00074 J	0.001 U	0.001 U	0.001 U
cis-1,2-Dichloroethene	0.07	0.00036 J	0.00087 J	0.0063	0.02	0.00074 J
Tetrachloroethene	0.005	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
trans-1,2-Dichloroethene	0.1	0.001 U	0.001 U	0.001 U	0.0013	0.001 U
Trichloroethene	0.005	0.001 U	0.001 U	0.001 U	0.001 U	0.001 U
Vinyl chloride	0.002	0.001 U	0.001 U	0.001 U	0.001	0.001 U
Semivolatile Organic Compounds						
2,4-Dimethylphenol	1.8	0.01 U	0.01 U	0.00055 J	0.01 U	0.01 U
2,6-Dinitrotoluene	0.004	0.01 U	0.01 U	0.001 J	0.01 U	0.01 U
Acetophenone	0.00006	0.0024 J	0.0015 J	0.00053 J	0.01 U	0.0013 J
bis(2-Ethylhexyl)phthalate	0.006	0.01 U	**0.024**[6]	0.0023 J	0.01 U	0.01 U
Caprolactam	NS[7]	0.01 U	0.0013 J	0.01 U	0.0011 J	0.01 U
Di-n-butylphthalate	NS	0.0028 J	0.0018 J	0.01 U	0.01 U	0.01 U
Phenol	58	0.012	0.0062 J	0.01 U	0.01 U	0.01 U
Metals						
Aluminum	NS	0.064 U	0.054 U	0.033 U	0.085 J	0.066 U
Arsenic	0.01	0.010 U	**0.015**	0.0062 J	0.0029 J	0.010 U
Barium	2.0	0.16 J	0.33	0.24	0.094 J	0.69
Beryllium	0.004	0.00074 U	0.00079 J	0.0050 U	0.0050 U	0.00078 U
Cadmium	0.005	0.00051 U	0.0050 U	0.0050 U	0.00047 J	0.0050 U
Calcium	NS	204	129	172	201	124
Cobalt	NS	0.0074 J	0.050 U	0.0034 J	0.0037 J	0.050 U
Copper	1.3	0.025 U	0.025 U	0.025 U	0.0023 J	0.025 U
Iron	NS	0.096 J	17.5	10.4	1.2 J	14.1
Lead	0.015	0.0086	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Magnesium	NS	49.0 J	35.1 J	43.1	46.1 J	33.3 J

TABLE 5.2

SUMMARY OF GROUNDWATER DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*MW-1*	*MW-1A*	*MW-105*	*MW-109*	*MW-110*
Sample ID:		*GW-122104-DS-006*	*GW-122104-DS-013*	*GW-122004-DS-003*	*GW-122104-DS-005*	*GW-122104-DS-012*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/20/2004*	*12/21/2004*	*12/21/2004*
QA/QC[2]*:*	*Tier 2*					
Parameters (mg/L)[3]*:*						
Metals						
Manganese	0.05	1.5 J	1.7 J	**1.5**	**1.9**	1.4 J
Nickel	0.10	0.014 J	0.040 U	0.0052 J	0.015 J	0.040 U
Potassium	NS	9.6 J	7.7 J	10.2 J	11.6	8.1 J
Selenium	0.05	**0.19**	0.0048 J	0.0076	0.037	0.0050 U
Sodium	NS	45.7	43.5	71.8	32.1	88.1
Thallium	NS	0.0067 U	0.010 U	0.010 U	0.010 U	0.009 U

TABLE 5.2

SUMMARY OF GROUNDWATER DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*MW-110*	*MW-110A*	*MW-111*	*MW-160A*
Sample ID:		*GW-122104-DSDUP*	*GW-122104-DS-008*	*GW-122104-DS-011*	*GW-122104-DS-007*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*
QA/QC[2]*:*	*Tier 2*	*Duplicate*			
Parameters (mg/L)[3]*:*					
Volatile Organic Compounds					
Acetone	0.93	0.01 U	0.01 U	0.05 U	0.01 U
Carbon disulfide	0.03	0.00049 J	0.001 U	0.005 U	0.001 U
cis-1,2-Dichloroethene	0.07	0.00067 J	0.004	**0.15**	0.001 U
Tetrachloroethene	0.005	0.001 U	0.0048	0.005 U	0.001 U
trans-1,2-Dichloroethene	0.1	0.001 U	0.00021 J	0.011	0.001 U
Trichloroethene	0.005	0.001 U	0.0019	0.005 U	0.001 U
Vinyl chloride	0.002	0.001 U	0.001 U	**0.017**	0.001 U
Semivolatile Organic Compounds					
2,4-Dimethylphenol	1.8	0.01 U	0.01 U	0.01 U	0.01 U
2,6-Dinitrotoluene	0.004	0.01 U	0.01 U	0.01 U	0.01 U
Acetophenone	0.00006	0.0027 J	0.01 U	0.0039 J	0.01 U
bis(2-Ethylhexyl)phthalate	0.006	0.01 U	0.01 U	0.01 U	0.01 U
Caprolactam	NS[7]	0.001 J	0.01 U	0.00091 J	0.01 U
Di-n-butylphthalate	NS	0.01 U	0.01 U	0.01 U	0.0012 J
Phenol	58	0.01 U	0.0045 J	0.01 U	0.01 U
Metals					
Aluminum	NS	0.073 U	0.053 U	0.20 U	0.094 U
Arsenic	0.01	0.010 U	0.010 U	0.0035 J	0.010 U
Barium	2.0	0.80	0.19 J	0.50	0.23
Beryllium	0.004	0.00079 U	0.00078 J	0.0050 U	0.00070 J
Cadmium	0.005	0.0050 U	0.00061 U	0.0050 U	0.0050 U
Calcium	NS	141	159	176	228
Cobalt	NS	0.050 U	0.0035 J	0.050 U	0.0014 J
Copper	1.3	0.025 U	0.025 U	0.025 U	0.025 U
Iron	NS	16.0	0.57	23.2 J	30.9
Lead	0.015	0.0030 U	0.0030 U	0.0030 U	0.0030 U
Magnesium	NS	38.0 J	48.3 J	50.9 J	31.6 J

TABLE 5.2

SUMMARY OF GROUNDWATER DETECTED ANALYTICAL DATA
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Location:		*MW-110*	*MW-110A*	*MW-111*	*MW-160A*
Sample ID:		*GW-122104-DSDUP*	*GW-122104-DS-008*	*GW-122104-DS-011*	*GW-122104-DS-007*
Sample Date:	*RSK*[1]	*12/21/2004*	*12/21/2004*	*12/21/2004*	*12/21/2004*
QA/QC[2]*:*	*Tier 2*	*Duplicate*			
Parameters (mg/L)[3]*:*					
Metals					
Manganese	0.05	1.5 J	1.5 J	1.7 J	2.4 J
Nickel	0.10	0.040 U	0.0090 J	0.040 U	0.040 U
Potassium	NS	9.3 J	9.5 J	7.1	7.5 J
Selenium	0.05	0.0050 U	0.026	0.0050 U	0.0050 U
Sodium	NS	101	84.7	30.1	6.3
Thallium	NS	0.0061 U	0.010 U	0.0051 J	0.010 U

[1] RSK - Appendix A, Tier 2, non-residential groundwater pathway objective in "Risk Based Standards for Kansas (RSK Manual)", Kansas Department of Health and Environment, March 1, 200

[2] QA/QC - Quality Assurance/Quality Control

[3] mg/L - milligrams per liter

[4] U - not detected at the associated value

[5] J - estimated at the associated value

[6] **0.024** - shading denotes exceedence of regulatory standard

[7] NS - no regulatory standard

TABLE 5.3

SUMMARY OF GROUNDWATER ELEVATIONS
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

			October 1998		May 1999		December 2004	
Monitoring Well	*Top of Casing Elevation (ft AMSL)* [1]	*Total Depth (ft BTOC)* [2]	*Water Level (ft BTOC)*	*Groundwater Elevation (ft AMSL)*	*Water Level (ft BTOC)*	*Groundwater Elevation (ft AMSL)*	*Water Level (ft BTOC)*	*Groundwater Elevation (ft AMSL)*
MW-1	746.43	32.25	19.23	727.20	16.84	729.59	28.49	717.94
MW-1A	745.93	37.19	18.95	726.98	15.54	726.98	28.58	717.35
MW-102A	748.82	31.02	NM[3]	NM	17.24	731.58	31.72	717.10
MW-103A	747.71	32.30	20.99	726.72	16.27	731.44	NM	NM
MW-104	746.51	30.05	NM	NM	15.02	731.49	29.37	717.14
MW-105	746.70	32.75	NM	NM	15.29	731.41	29.57	717.13
MW-108	747.17	31.61	19.40	727.77	16.08	731.09	29.93	717.24
MW-109	746.11	32.50	19.03	727.08	16.07	730.04	28.41	717.70
MW-110	745.79	63.71	18.83	726.96	15.26	730.53	28.24	717.55
MW-110A	743.89	36.45	16.35	727.54	15.58	728.31	26.42	717.47
MW-111	745.96	61.10	NM	NM	NM	NM	28.37	717.59
MW-115A	748.07	29.35	NI[4]	NI	16.52	731.55	Dry	NM
MW-160A	746.56	37.55	20.35	726.21	15.11	731.45	29.83	716.73

[1] ft AMSL - feet above mean sea level

[2] ft BTOC - feet below top of casing

[3] NM - not measured at this time

[4] NI - well not yet installed

APPENDIX A

STRATIGRAPHIC LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-108
DATE COMPLETED: December 20, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	743.0						
0	CL CLAY, with fine to medium grained sand, soft, brown-gray, moist, grades to more sand with depth		Backfilled with cement bentonite grout	1	P/S			15.6
2				1	P/S			13.3
4				2	P/S			8.9
6				2	P/S			11.1
8				(3)	P/S			8.9
10								
12	END OF BOREHOLE @ 12.0ft BGS	731.0						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-109
DATE COMPLETED: December 20, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	742.5						
0	CL CLAY, with fine to medium grained sand, soft, brown-gray			1	P/S			15.3
2								
4				1	P/S			11.1
6			Backfilled with cement bentonite grout	2	P/S			11.1
8				2	P/S			11.1
10				3	P/S			15.3
12	END OF BOREHOLE @ 12.0ft BGS	730.5						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-110
DATE COMPLETED: December 20, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	742.3						
0	CL CLAY, with fine to medium grained sand, soft, brown-gray, moist		Backfilled with cement bentonite grout	1	P/S			15.3
2								
4				1	P/S			15.3
6				2	P/S			15.3
8								
10	SM SILTY SAND, fine to medium grained, gray	732.3		2	P/S			11.1
12	END OF BOREHOLE @ 12.0ft BGS	730.3		(3)	P/S			8.9
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-111
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	744.1						
0	CL SANDY CLAY, fine grained, brown, moist		Backfilled with cement bentonite grout	1	P/S			0.2
2								
4				1	P/S			1.8
6				2	P/S			2.1
8				2	P/S			3.8
		735.1						
10	SM SILTY SAND, fine to medium grained, brown, moist			3	P/S			3.5
12	END OF BOREHOLE @ 12.0ft BGS	732.1						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-112
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	743.1						
0	CL SANDY CLAY, fine to medium grained, tan-brown			1	P/S			0.6
2								
4				1	P/S			0.5
		738.1						
6	SM SILTY SAND, medium grained, 1 to 2 centimeter layers, tan-brown, moist		Backfilled with cement bentonite grout	2	P/S			0.8
8								
				2	P/S			1.5
10								
				(3)	P/S			1.1
12	END OF BOREHOLE @ 12.0ft BGS	731.1						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-113
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	742.9						
0	SW SAND, very loose, medium to coarse grained, poorly sorted, tan-brown			1	P/S			0.2
2								
4				1	P/S			0.7
	SC SAND, with clay, soft, fine to medium grained, tan-brown, moist	737.9	Backfilled with cement bentonite grout					
6				2	P/S			0.3
	SW SAND, very loose, medium to coarse grained, poorly sorted, tan-brown	735.9						
8				2	P/S			0.6
10				(3)	P/S			0.5
12	END OF BOREHOLE @ 12.0ft BGS	730.9						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-114
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	744.0						
0	ASPHALT, parking lot		Asphalt					
	SM SILTY SAND, fine grained, tan-brown, moist	743.5		1	P/S			0.9
2								
4				1	P/S			0.8
6			Backfilled with cement bentonite grout	2	P/S			1.2
8								
				2	P/S			0.3
10								
				(3)	P/S			0.4
12	END OF BOREHOLE @ 12.0ft BGS	732.0						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-115
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	744.1						
	ASPHALT, parking lot		Asphalt					
	SM SILTY SAND, fine grained, poorly sorted, tan-brown, moist	743.6		1	P/S			1.9
2								
4				1	P/S			3.1
6			Backfilled with cement bentonite grout	2	P/S			2.8
8				2	P/S			0.9
10				(3)	P/S			0.7
12	END OF BOREHOLE @ 12.0ft BGS	732.1						
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (3)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-116
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	743.8						
0	ASPHALT/GRAVEL, parking lot		Asphalt	1	P/S			0.3
2	CL SANDY CLAY, medium to coarse grained, soft, tan-brown, moist	741.8	Backfilled with cement bentonite grout	1	P/S			0.9
4								
6	END OF BOREHOLE @ 6.0ft BGS	737.8		2	P/S			0.5
8								
10								
12								
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: Fairfax I Plant Site
PROJECT NUMBER: 012559
CLIENT: GM-ENCORE
LOCATION: Kansas City, Kansas
DRILLING CONTRACTOR: Plains Environmental

HOLE DESIGNATION: SB-117
DATE COMPLETED: December 21, 2004
DRILLING METHOD: Geoprobe
FIELD PERSONNEL: C. Cantrell

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft AMSL	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (ft)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	743.0						
	ASPHALT/GRAVEL, parking lot		Asphalt					
		742.0		1	P/S			0.4
2	SW - SAND, medium grained grading to coarse grained with depth, tan-brown							
			Backfilled with cement bentonite grout	1	P/S			0.3
4	SP SAND, coarse grained, tan-brown, moist	739.0						
				(2)	P/S			0.4
6	END OF BOREHOLE @ 6.0ft BGS	737.0						
8								
10								
12								
14								
16								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 012559-BH.GPJ CRA_CORP.GDT 4/15/05

APPENDIX B

LABORATORY ANALYTICAL DATA

TABLE B.1

SAMPLE KEY
CONFIRMATORY SAMPLING PROGRAM
FORMER GM FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample Number	*Date*	*Location; Depth (ft bgs)* [1]	*Area of Concern*	*Analysis* [2]
S-122004-DS-115	12/20/2004	SB-108; 10-12	USTs 7, 8, & 9	TCL VOC, TCL SVOC, TAL Metals
S-122004-DS-116	12/20/2004	SB-109; 10-12	USTs 5, 6, & 11	TCL VOC, TCL SVOC, TAL Metals
S-122004-DS-117	12/20/2004	SB-110; 10-12	USTs 3 & 4	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-118	12/21/2004	SB-111; 10-12	USTs 1 & 2	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-119	12/21/2004	SB-112; 10-12	USTs B & C	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-120	12/21/2004	SB-113; 10-12	UST 10 & Baler Room	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-121	12/21/2004	SB-114; 10-12	Truck Maintenance Facility	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-122	12/21/2004	SB-115; 10-12	Fuel Island	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-123	12/21/2004	SB-116; 4-6	Waste & Paint Sump	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-124	12/21/2004	SB-117; 4-6	Paint Mix & Sludge Tanks	TCL VOC, TCL SVOC, TAL Metals
GW-122004-DS-001	12/20/2004	Rinsate (SB-104)	--	TCL VOC
GW-122004-DS-002	12/20/2004	Rinsate (SB-110)	--	TCL VOC, TCL SVOC, TAL Total Metals
GW-122004-DS-003	12/20/2004	MW-105	--	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122004-DS-004	12/20/2004	Trip Blank	--	TCL VOC
GW-122104-DS-005	12/21/2004	MW-109	--	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-006	12/21/2004	MW-1	--	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-007	12/21/2004	MW-160A	--	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-008	12/21/2004	MW-110A	--	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-010	12/21/2004	Trip Blank	--	TCL VOC
GW-122104-DS-011	12/21/2004	MW-111	--	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-012	12/21/2004	MW-110	--	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-DUP	12/21/2004	MW-110 Duplicate	--	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-013	12/21/2004	MW-1A	--	TCL VOC, TCL SVOC, TAL Total Metals

[1] ft bgs - feet below ground surface

[2] TCL VOC - target compound list volatile organic compounds
TCL SVOC - target compound list semivolatile organic compounds
TAL Metals - target analyte list metals
NAP - natural attenuation parameters (total and dissolved calcium, magnesium, and manganese, total kjeldal nitrogen, ammonia-N, nitrate-N, chemical oxygen demand, total organic carbon, ortho phosphate, and pH)

SEVERN TRENT STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 12559-52

GM FAIRFAX

Lot #: A4L210190

Phil Harvey

Conestoga-Rovers & Associates
8615 W. Bryn Mawr
Chicago, IL 60631

SEVERN TRENT LABORATORIES, INC.

012559-52
A4L210190
02/01/05

Amy L. McCormick
Project Manager

January 13, 2005

CASE NARRATIVE

A4L210190

The following report contains the analytical results for four water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Fairfax Site, project number 12559-52. The samples were received December 21, 2004, according to documented sample acceptance procedures.

STL 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 Susan Scrocchi on January 5, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL'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.

If you have any questions, please call the Project Manager, Amy L. McCormick, 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 3.4 and 3.9°C.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

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 may 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. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) 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.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are 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 the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

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/PCB and PAH methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

EXECUTIVE SUMMARY - Detection Highlights

A4L210190

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-122004-DS-001 12/20/04 13:55 001				
Acetone	4.8 J	10	ug/L	SW846 8260B
GW-122004-DS-002 12/20/04 17:35 002				
Aluminum	0.29 J	0.20	mg/L	SW846 6010B
Barium	0.00085 B	0.20	mg/L	SW846 6010B
Cadmium	0.00036	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Calcium	0.58 B	5.0	mg/L	SW846 6010B
Potassium	0.18 B,J	5.0	mg/L	SW846 6010B
bis(2-Ethylhexyl) phthalate	1.2 J	10	ug/L	SW846 8270C
Caprolactam	1.4 J,B	10	ug/L	SW846 8270C
Di-n-butyl phthalate	1.0 J	10	ug/L	SW846 8270C
Di-n-octyl phthalate	1.2 J	10	ug/L	SW846 8270C
Fluoranthene	0.79 J	10	ug/L	SW846 8270C
4-Methylphenol	0.59 J,#	10	ug/L	SW846 8270C
Acetone	5.1 J	10	ug/L	SW846 8260B
2-Butanone	0.44 J	10	ug/L	SW846 8260B
GW-122004-DS-003 12/20/04 16:32 003				
Calcium - DISSOLVED	169	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	42.3	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.5	0.015	mg/L	SW846 6010B
Arsenic	0.0062 B	0.010	mg/L	SW846 6010B
Selenium	0.0076	0.0050	mg/L	SW846 6010B
Calcium	172	5.0	mg/L	SW846 6010B
Magnesium	43.1	5.0	mg/L	SW846 6010B
Manganese	1.5	0.015	mg/L	SW846 6010B
Aluminum	0.033 B,J	0.20	mg/L	SW846 6010B
Barium	0.24	0.20	mg/L	SW846 6010B
Cobalt	0.0034 B	0.050	mg/L	SW846 6010B
Iron	10.4	0.10	mg/L	SW846 6010B
Nickel	0.0052 B	0.040	mg/L	SW846 6010B
Potassium	10.2 J	5.0	mg/L	SW846 6010B
Sodium	71.8	5.0	mg/L	SW846 6010B
Acetophenone	0.53 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	2.3 J	10	ug/L	SW846 8270C
Caprolactam	1.2 J,B	10	ug/L	SW846 8270C
2,4-Dimethylphenol	0.55 J	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	1.0 J	10	ug/L	SW846 8270C

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-001

GC/MS Volatiles

Lot-Sample #...: A4L210190-001 **Work Order #...:** G1K1Q1AA **Matrix.....:** WG
Date Sampled...: 12/20/04 13:55 **Date Received..:** 12/21/04
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	**4.8 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-002

GC/MS Volatiles

Lot-Sample #...: A4L210190-002 Work Order #...: G1K191A3 Matrix.....: WG
Date Sampled...: 12/20/04 17:35 Date Received..: 12/21/04
Prep Date.....: 12/30/04 Analysis Date..: 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	**5.1 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	**0.44 J**	**10**	**ug/L**	**0.39**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
1,2-Dichloroethane-d4	113	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-002

GC/MS Semivolatiles

Lot-Sample #...: A4L210190-002 Work Order #...: G1K191A4 Matrix.....: WG
Date Sampled...: 12/20/04 17:35 Date Received..: 12/21/04
Prep Date.....: 12/21/04 Analysis Date..: 12/28/04
Prep Batch #...: 4356549
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	ND	10	ug/L	0.19
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**1.2 J**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	**1.4 J,B**	**10**	**ug/L**	**0.73**
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	**1.0 J**	**10**	**ug/L**	**0.13**
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-002

GC/MS Semivolatiles

Lot-Sample #...: A4L210190-002 Work Order #...: G1K191A4 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	**1.2 J**	**10**	**ug/L**	**0.16**
Fluoranthene	**0.79 J**	**10**	**ug/L**	**0.024**
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	**0.59 J,#**	**10**	**ug/L**	**0.20**
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	74	(32 - 112)
2-Fluorobiphenyl	69	(30 - 110)
Terphenyl-d14	89	(10 - 144)
Phenol-d5	18	(10 - 113)
2-Fluorophenol	32	(13 - 110)
2,4,6-Tribromophenol	63	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-002

TOTAL Metals

Lot-Sample #...: A4L210190-002 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	ND	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K191AM
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	ND	0.015	mg/L	SW846 6010B	12/28-12/30/04	G1K191AN
		Dilution Factor: 1		MDL.....: 0.0012		
Nickel	ND	0.040	mg/L	SW846 6010B	12/28-12/30/04	G1K191AP
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**0.18 B,J**	**5.0**	**mg/L**	**SW846 6010B**	**12/28-12/30/04**	**G1K191AQ**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/28-12/30/04	G1K191AR
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	ND	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K191AT
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/28-12/30/04	G1K191AU
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/28-12/30/04	G1K191AV
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/28/04	G1K191A2
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-003

GC/MS Volatiles

Lot-Sample #...: A4L210190-003 Work Order #...: G1K2F1CD Matrix.....: WG
Date Sampled...: 12/20/04 16:32 Date Received..: 12/21/04
Prep Date.....: 12/30/04 Analysis Date..: 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**6.3**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	**2.2 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	**0.69 J**	**1.0**	**ug/L**	**0.28**
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(73 - 122)
1,2-Dichloroethane-d4	112	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-003

GC/MS Semivolatiles

Lot-Sample #...: A4L210190-003 Work Order #...: G1K2F1CE Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	**1.0 J**	**10**	**ug/L**	**0.17**
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	91	(32 - 112)
2-Fluorobiphenyl	84	(30 - 110)
Terphenyl-d14	96	(10 - 144)
Phenol-d5	23	(10 - 113)
2-Fluorophenol	42	(13 - 110)
2,4,6-Tribromophenol	75	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-003

TOTAL Metals

Lot-Sample #...: A4L210190-003 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AK
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	10.4	0.10	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AL
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	0.0052 B	0.040	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AP
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	10.2 J	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AQ
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AR
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	71.8	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AT
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AU
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1AV
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/28/04	G1K2F1A2
		Dilution Factor: 1		MDL.....: 0.000029		

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-004

GC/MS Volatiles

Lot-Sample #...: A4L210190-004 **Work Order #...:** G1K2K1AA **Matrix.....:** WG
Date Sampled...: 12/20/04 18:01 **Date Received..:** 12/21/04
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**6.3**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	**1.6 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	**0.67 J**	**1.0**	**ug/L**	**0.28**
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-004

GC/MS Volatiles

Lot-Sample #...: A4L210190-004 Work Order #...: G1K2K1AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-003

DISSOLVED Metals

Lot-Sample #...: A4L2I0190-003 Matrix.....: WG
Date Sampled...: 12/20/04 16:32 Date Received..: 12/21/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363026						
Calcium	169	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1A3
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	42.3	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1A4
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.5	0.015	mg/L	SW846 6010B	12/28-12/30/04	G1K2F1A5
		Dilution Factor: 1		MDL.....: 0.0012		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW-122004-DS-003

General Chemistry

Lot-Sample #...: A4L210190-003 Work Order #...: G1K2F Matrix.....: WG
Date Sampled...: 12/20/04 16:32 Date Received..: 12/21/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate	0.009 B,J	0.1	mg/L	MCAWW 365.2	12/22/04	4357504
		Dilution Factor: 1		MDL.....: 0.006		
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1		MDL.....: 7.1		
Nitrate as N	0.032 B	0.10	mg/L	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1		MDL.....: 0.016		
Nitrogen, as Ammonia	0.2 J	0.2	mg/L	MCAWW 350.3	12/30/04	4365465
		Dilution Factor: 1		MDL.....: 0.07		
Total Kjeldahl Nitrogen	ND	3	mg/L	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1		MDL.....: 2		
Total Organic Carbon	1	1	mg/L	MCAWW 415.1	01/04/05	5004303
		Dilution Factor: 1		MDL.....: 0.08		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J *Method blank contamination.* The associated method blank contains the target analyte at a reportable level.

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210190 **Work Order #...:** G12V81AA **Matrix.....:** WATER
MB Lot-Sample #: A5A030000-065

Prep Date.....: 12/30/04
Analysis Date..: 12/30/04 **Prep Batch #...:** 5003065
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	**0.44 J**	**1.0**	**ug/L**	**SW846 8260B**
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	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
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210190 **Work Order #...:** G12V81AA **Matrix.....:** WATER

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 #...: A4L210190 **Work Order #...:** G1L3E1AA **Matrix.....:** WATER
MB Lot-Sample #: A4L210000-549

Prep Date.....: 12/21/04
Analysis Date..: 12/28/04 **Prep Batch #...:** 4356549
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Atrazine	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Caprolactam	**0.79 J**	**10**	**ug/L**	**SW846 8270C**
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	50	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	10	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	50	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol				

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210190 **Work Order #...:** G1L3E1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	75	(32 - 112)
2-Fluorobiphenyl	74	(30 - 110)
Terphenyl-d14	86	(10 - 144)
Phenol-d5	54	(10 - 113)
2-Fluorophenol	66	(13 - 110)
2,4,6-Tribromophenol	64	(21 - 122)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210190 **Work Order #...:** G1L3E1AA **Matrix.....:** WATER

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

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-026 **Prep Batch #...:** 4363026						
Aluminum	**0.046 B**	**0.20** Dilution Factor: 1	**mg/L**	**SW846 6010B**	**12/28-12/30/04**	**G1TW31AG**
Arsenic	ND	0.010 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AC
Antimony	ND	0.060 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AH
Lead	ND	0.0030 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AD
Barium	ND	0.20 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AJ
Selenium	ND	0.0050 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AE
Beryllium	ND	0.0050 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AK
Thallium	**0.0067 B**	**0.010** Dilution Factor: 1	**mg/L**	**SW846 6010B**	**12/28-12/30/04**	**G1TW31AF**
Cadmium	**0.00042 B**	**0.0050** Dilution Factor: 1	**mg/L**	**SW846 6010B**	**12/28-12/30/04**	**G1TW31AL**
Calcium	ND	5.0 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AM
Chromium	ND	0.010 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AN
Cobalt	ND	0.050 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AP
Copper	ND	0.025 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AQ
Iron	ND	0.10 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AR
Magnesium	ND	5.0 Dilution Factor: 1	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AT

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	0.015	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AU
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AV
		Dilution Factor: 1				
Potassium	**0.16 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/28-12/30/04**	**G1TW31AW**
		Dilution Factor: 1				
Silver	ND	0.010	mg/L	SW846 6010B	12/28-12/30/04	G1TW31AX
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1TW31A0
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	12/28-12/30/04	G1TW31A1
		Dilution Factor: 1				
Zinc	ND	0.020	mg/L	SW846 6010B	12/28-12/30/04	G1TW31A2
		Dilution Factor: 1				
Mercury	ND	0.00020	mg/L	SW846 7470A	12/28/04	G1TW31AA
		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 #...: A4L210190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-026 **Prep Batch #...:** 4363026						
Calcium	ND	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1TW31C6
		Dilution Factor: 1				
Magnesium	ND	5.0	mg/L	SW846 6010B	12/28-12/30/04	G1TW31DC
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	12/28-12/30/04	G1TW31DD
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: G1V7X1AA		MB Lot-Sample #:	A4L280000-430	
	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1				
Nitrate as N		Work Order #: G1R4D1AA		MB Lot-Sample #:	A4L270000-292	
	ND	0.10	mg/L	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1				
Nitrogen, as Ammonia		Work Order #: G12AR1AA		MB Lot-Sample #:	A4L300000-465	
	0.09 B	**0.2**	**mg/L**	**MCAWW 350.3**	**12/30/04**	**4365465**
		Dilution Factor: 1				
Phosphorus as orthophosphate		Work Order #: G1PXL1AA		MB Lot-Sample #:	A4L220000-504	
	0.01 B	**0.1**	**mg/L**	**MCAWW 365.2**	**12/22/04**	**4357504**
		Dilution Factor: 1				
Total Kjeldahl Nitrogen		Work Order #: G13RX1AA		MB Lot-Sample #:	A5A030000-487	
	ND	3	mg/L	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: G14LC1AA		MB Lot-Sample #:	A5A040000-303	
	ND	1	mg/L	MCAWW 415.1	01/04/05	5004303
		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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4L210190 **Work Order #...:** G12V81AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A5A030000-065 G12V81AD-LCSD
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**130**	**(63 - 130)**			**SW846 8260B**
	124	**(63 - 130)**	**4.6**	**(0-20)**	**SW846 8260B**
Trichloroethene	**110**	**(75 - 122)**			**SW846 8260B**
	108	**(75 - 122)**	**1.4**	**(0-20)**	**SW846 8260B**
Benzene	**112**	**(80 - 116)**			**SW846 8260B**
	110	**(80 - 116)**	**1.3**	**(0-20)**	**SW846 8260B**
Toluene	**105**	**(74 - 119)**			**SW846 8260B**
	104	**(74 - 119)**	**1.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**105**	**(76 - 117)**			**SW846 8260B**
	104	**(76 - 117)**	**0.40**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	108	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
	103	(61 - 128)
Toluene-d8	101	(76 - 110)
	100	(76 - 110)
4-Bromofluorobenzene	110	(74 - 116)
	109	(74 - 116)

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 #...: A4L210190 Work Order #...: G1L3E1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A4L210000-549 G1L3E1AD-LCSD
Prep Date.....: 12/21/04 Analysis Date..: 12/28/04
Prep Batch #...: 4356549
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	58	(39 - 118)			SW846 8270C
	70	(39 - 118)	18	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	60	(31 - 110)			SW846 8270C
	69	(31 - 110)	15	(0-37)	SW846 8270C
1,4-Dichlorobenzene	69	(28 - 110)			SW846 8270C
	80	(28 - 110)	15	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	55	(29 - 124)			SW846 8270C
	66	(29 - 124)	17	(0-55)	SW846 8270C
2-Chlorophenol	54	(19 - 124)			SW846 8270C
	65	(19 - 124)	18	(0-43)	SW846 8270C
2,4-Dinitrotoluene	62	(47 - 131)			SW846 8270C
	69	(47 - 131)	11	(0-32)	SW846 8270C
4-Nitrophenol	44	(19 - 144)			SW846 8270C
	49	(19 - 144)	12	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl-amine	67	(30 - 115)			SW846 8270C
	79	(30 - 115)	16	(0-36)	SW846 8270C
Pentachlorophenol	52	(10 - 140)			SW846 8270C
	63	(10 - 140)	18	(0-56)	SW846 8270C
Phenol	46	(10 - 131)			SW846 8270C
	53	(10 - 131)	15	(0-43)	SW846 8270C
Pyrene	67	(46 - 130)			SW846 8270C
	79	(46 - 130)	17	(0-31)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	62	(32 - 112)
	74	(32 - 112)
2-Fluorobiphenyl	57	(30 - 110)
	69	(30 - 110)
Terphenyl-d14	65	(10 - 144)
	78	(10 - 144)
Phenol-d5	45	(10 - 113)
	53	(10 - 113)
2-Fluorophenol	55	(13 - 110)
	60	(13 - 110)
2,4,6-Tribromophenol	53	(21 - 122)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210190 **Work Order #...:** G1L3E1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A4L210000-549 G1L3E1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	60	(21 - 122)

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 #...: A4L210190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-026 **Prep Batch #...:** 4363026					
Calcium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CE
Magnesium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CK
Manganese	102	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CL
Arsenic	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A4
Aluminum	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A8
Lead	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A5
Antimony	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A9
Selenium	104	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A6
Barium	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CA
Thallium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31A7
Beryllium	102	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CC
Cadmium	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CD
Chromium	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CF
Cobalt	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CG

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CH
Iron	106	(77 - 127)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CJ
Nickel	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CM
Potassium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CN
Silver	107	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CP
Sodium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CQ
Vanadium	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CR
Zinc	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31CT
Mercury	103	(82 - 131)	SW846 7470A Dilution Factor: 1	12/28/04	G1TW31A3

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-026 **Prep Batch #...:** 4363026					
Calcium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31D6
Magnesium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31EC
Manganese	102	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TW31ED

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A4L210190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:G1V7X1AC-LCS/G1V7X1AD-LCSD				LCS Lot-Sample#: A4L280000-430	
	97	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	94	(90 - 110)	2.6	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#:G1R4D1AC-LCS/G1R4D1AD-LCSD				LCS Lot-Sample#: A4L270000-292	
	98	(90 - 110)			MCAWW 300.0A	12/22/04	4362292
	100	(90 - 110)	1.1	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia		Work Order #: G12AR1AC	LCS Lot-Sample#: A4L300000-465		
	93	(85 - 114)	MCAWW 350.3	12/30/04	4365465
		Dilution Factor: 1			
Phosphorus as orthophosphate		Work Order #: G1PXL1AC	LCS Lot-Sample#: A4L220000-504		
	92	(89 - 115)	MCAWW 365.2	12/22/04	4357504
		Dilution Factor: 1			
Total Kjeldahl Nitrogen		Work Order #: G13RX1AC	LCS Lot-Sample#: A5A030000-487		
	142	(65 - 144)	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: G14LC1AC	LCS Lot-Sample#: A5A040000-303		
	102	(88 - 115)	MCAWW 415.1	01/04/05	5004303
		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 #...: A4L210190 **Work Order #...:** G1M1K1AM-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L220154-004 G1M1K1AN-MSD
Date Sampled...: 12/21/04 08:05 **Date Received..:** 12/22/04
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003065
Dilution Factor: 25

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	121	(62 - 130)			SW846 8260B
	132 a	(62 - 130)	8.9	(0-20)	SW846 8260B
Trichloroethene	103	(62 - 130)			SW846 8260B
	121	(62 - 130)	4.9	(0-20)	SW846 8260B
Benzene	104	(78 - 118)			SW846 8260B
	116	(78 - 118)	11	(0-20)	SW846 8260B
Toluene	94	(70 - 119)			SW846 8260B
	104	(70 - 119)	10	(0-20)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	105	(76 - 117)	11	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(73 - 122)
	107	(73 - 122)
1,2-Dichloroethane-d4	106	(61 - 128)
	106	(61 - 128)
Toluene-d8	97	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	108	(74 - 116)
	109	(74 - 116)

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

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER
Date Sampled...: 12/15/04 14:50 **Date Received..:** 12/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L170233-001 **Prep Batch #...:** 4363026							
Calcium	92	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CF
	75	(75 - 125)	6.4	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CG
		Dilution Factor: 1					
Magnesium	99	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CX
	90	(75 - 125)	6.4	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1C0
		Dilution Factor: 1					
Manganese	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1C2
	95	(75 - 125)	6.2	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1C3
		Dilution Factor: 1					
Aluminum	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1AX
	96	(75 - 125)	6.7	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1A0
		Dilution Factor: 1					
Arsenic	102	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1AJ
	96	(75 - 125)	5.9	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1AK
		Dilution Factor: 1					
Antimony	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1A2
	97	(75 - 125)	5.8	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1A3
		Dilution Factor: 1					
Lead	100	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1AM
	95	(75 - 125)	5.6	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1AN
		Dilution Factor: 1					
Barium	99	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1A5
	92	(75 - 125)	6.6	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1A6
		Dilution Factor: 1					
Selenium	107	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1AQ
	101	(75 - 125)	5.4	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1AR
		Dilution Factor: 1					
Beryllium	104	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1A8
	98	(75 - 125)	6.0	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1A9
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER
Date Sampled...: 12/15/04 14:50 **Date Received..:** 12/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	100	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1AU
	94	(75 - 125)	5.4	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1AV
		Dilution Factor: 1					
Cadmium	99	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CC
	93	(75 - 125)	5.4	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CD
		Dilution Factor: 1					
Chromium	100	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CJ
	94	(75 - 125)	5.7	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CK
		Dilution Factor: 1					
Cobalt	98	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CM
	92	(75 - 125)	5.8	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CN
		Dilution Factor: 1					
Copper	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CQ
	97	(75 - 125)	6.5	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CR
		Dilution Factor: 1					
Iron	104	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1CU
	90	(75 - 125)	7.0	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1CV
		Dilution Factor: 1					
Nickel	98	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1C5
	92	(75 - 125)	5.9	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1C6
		Dilution Factor: 1					
Potassium	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1C8
	96	(75 - 125)	6.0	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1C9
		Dilution Factor: 1					
Silver	110	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1DC
	103	(75 - 125)	6.2	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1DD
		Dilution Factor: 1					
Sodium	96	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1DF
	84	(75 - 125)	6.7	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1DG
		Dilution Factor: 1					
Vanadium	98	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1DJ
	92	(75 - 125)	6.0	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1DK
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210190 **Matrix.....:** WATER
Date Sampled...: 12/15/04 14:50 **Date Received..:** 12/17/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	103	(75 - 125)			SW846 6010B	12/28-12/30/04	G1C5R1DM
	98	(75 - 125)	5.6	(0-20)	SW846 6010B	12/28-12/30/04	G1C5R1DN
		Dilution Factor: 1					
Mercury	113	(68 - 149)			SW846 7470A	12/28/04	G1C5R1AF
	105	(68 - 149)	7.8	(0-20)	SW846 7470A	12/28/04	G1C5R1AG
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210190 **Matrix.....:** WATER
Date Sampled...: 12/20/04 08:00 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
		Work Order #...: G1KXH1AJ		MS Lot-Sample #:	A4L210176-002
Chemical Oxygen Demand (COD)	95	(90 - 110)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210190 **Matrix.....:** WATER
Date Sampled...: 12/17/04 **Date Received..:** 12/18/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: G1FV81AM-MS/G1FV81AN-MSD				MS Lot-Sample #: A4L180161-002	
	93	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	96	(90 - 110)	2.8	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#: G1KJL1AJ-MS/G1KJL1AK-MSD				MS Lot-Sample #: A4L210138-001	
	108	(80 - 120)			MCAWW 300.0A	12/22/04	4362292
	107	(80 - 120)	0.70	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					
Nitrogen, as Ammonia		WO#: G1F371C6-MS/G1F371C7-MSD				MS Lot-Sample #: A4L180188-001	
	92	(63 - 126)			MCAWW 350.3	12/30/04	4365465
	90	(63 - 126)	1.2	(0-29)	MCAWW 350.3	12/30/04	4365465
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210190 **Matrix.....:** WG
Date Sampled...: 12/20/04 16:32 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate		WO#: G1K2F1CF-MS/G1K2F1CG-MSD				MS Lot-Sample #: A4L210190-003	
	99	(56 - 139)			MCAWW 365.2	12/22/04	4357504
	99	(56 - 139)	0.19	(0-20)	MCAWW 365.2	12/22/04	4357504
		Dilution Factor: 1					
Total Kjeldahl Nitrogen		WO#: G1K2F1CH-MS/G1K2F1CJ-MSD				MS Lot-Sample #: A4L210190-003	
	101	(10 - 200)			MCAWW 351.3	01/03/05	5003487
	72 *	(10 - 200)	33	(0-20)	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1					
Total Organic Carbon		WO#: G1K2F1CK-MS/G1K2F1CL-MSD				MS Lot-Sample #: A4L210190-003	
	96	(72 - 136)			MCAWW 415.1	01/04/05	5004303
	97	(72 - 136)	0.90	(0-20)	MCAWW 415.1	01/04/05	5004303
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

SHIPPED TO (Laboratory Name): STL – Ohio

56

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM FAIRFAX

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: David Kendrick **PRINTED NAME:** DAVID KENDRICK

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL	TCL VOC	8260 VOC	T. TAL metals	COD	TKN - Ammonia	8 VOC	DRTHO-PHOS/NO3	REMARKS
1	12/20/04	1355	GW-122004-DS-001	W	3		3							550W #095001
2	12/20/04	1735	GW-122004-DS-002	W	6		3		1		2			
3	12/20/04	1652	GW-122004-DS-003	W	13	3	3	1	1	1	2	1		
4	12/20/04	1501	GW-122004-DS-004	W	1		1							
			TOTAL NUMBER OF CONTAINERS		23									

RELINQUISHED BY: ① David Kendrick	DATE: 12/20/04 TIME: 1620	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: SP, DSK, Cantrell

RECEIVED FOR LABORATORY BY: 12305
DATE: 12/21/04 TIME: 10:30

1001-00(SOURCE)GN-CO004

STL North Canton

STL Cooler Receipt Form/Narrative — Lot Number: ATL21090

North Canton Facility

Client: CRA — Project: GM - Fairfax — Quote#: 62183

Cooler Received on: 12/21/04 — Opened on: 12/21/04 — by: _____ (Signature)

Fedx [X] Client Drop Off [ ] UPS [ ] DHL [ ] FAS [ ] Other: _____

STL Cooler No# See back Foam Box [ ] Client Cooler [ ] Other _____

1. Were custody seals on the outside of the cooler? Yes [ ] No [X] Intact? Yes [ ] No [ ] NA [X]
   If YES, Quantity _____
   Were the custody seals signed and dated? Yes [ ] No [ ] NA [X]
2. Shipper's packing slip attached to this form? Yes [X] No [ ] NA [ ]
3. Did custody papers accompany the samples? Yes [X] No [ ] Relinquished by client? Yes [X] No [ ]
4. Did you sign the custody papers in the appropriate place? Yes [X] No [ ]
5. Packing material used: Bubble Wrap [ ] Foam [ ] None [ ] Other: _____
6. Cooler temperature upon receipt _____ °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial [ ] Coolant & Sample [ ] Against Bottles [ ] IR [X] ICE/$H_2$0 Slurry [ ]

COOLANT: Wet Ice [X] Blue Ice [ ] Dry Ice [ ] Water [ ] None [ ]

7. Did all bottles arrive in good condition (Unbroken)? Yes [X] No [ ]
8. Could all bottle labels and/or tags be reconciled with the COC? Yes [X] No [ ]
9. Were samples at the correct pH? (record below/on back) Yes [X] No [X] NA [ ]
10. Were correct bottles used for the tests indicated? Yes [X] No [ ]
11. Were air bubbles >6 mm in any VOA vials? Yes [ ] No [X] NA [ ]
12. Sufficient quantity received to perform indicated analyses? Yes [X] No [ ]

Contacted PM _____ Date: _____ by: _____ via Voice Mail [ ] Verbal [ ] Other [ ]

Concerning: _____

√		

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) 002 (1x1L) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 101104HNO3; Sulfuric Acid Lot # 102804-H2SO4; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials
002	<2	12/21/04	
003	<2 <2 <2 <2	"	"

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant
L13	3.9°C	IR	Ice
J760	3.4°C	IR	Ice

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

SEVERN TRENT STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 12559-52

GM-FAIRFAX

Lot #: A4L220190

Phil Harvey

Conestoga-Rovers & Associates
8615 W. Bryn Mawr
Chicago, IL 60631

SEVERN TRENT LABORATORIES, INC.

VAL
012559-52
A4L220190
Date 02/01/05

Amy L. McCormick
Project Manager

January 13, 2005

CASE NARRATIVE

A4L220190

The following report contains the analytical results for two water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Fairfax Site, project number 12559-52. The samples were received December 22, 2004, according to documented sample acceptance procedures.

Sample GW122104DS011, submitted for Dissolved Metals, was placed on hold as instructed by Susan Scrocchi on December 22, 2004.

STL 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 Susan Scrocchi on January 5, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL'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.

If you have any questions, please call the Project Manager, Amy L. McCormick, 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 3.3 and 3.8°C.

CASE NARRATIVE (continued)

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.

GC/MS SEMIVOLATILES

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.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

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 GW122104DS011 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".

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of 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 analytes(s).

The Total Kjeldahl Nitrogen matrix spike/matrix spike duplicate(s) for batch(es) 5003487 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.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton 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.

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. STL 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. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. 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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP only*

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

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 may 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. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) 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.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are 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 the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

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/PCB and PAH methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

EXECUTIVE SUMMARY - Detection Highlights

A4L220190

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS005 12/21/04 10:40 001				
Calcium - DISSOLVED	205	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	48.2 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.8	0.015	mg/L	SW846 6010B
Arsenic	0.0029 B	0.010	mg/L	SW846 6010B
Selenium	0.037	0.0050	mg/L	SW846 6010B
Calcium	201	5.0	mg/L	SW846 6010B
Magnesium	46.1 J	5.0	mg/L	SW846 6010B
Manganese	1.9	0.015	mg/L	SW846 6010B
Aluminum	0.085 B	0.20	mg/L	SW846 6010B
Barium	0.094 B	0.20	mg/L	SW846 6010B
Cadmium	0.00047 B	0.0050	mg/L	SW846 6010B
Chromium	0.0033	0.010	mg/L	SW846 6010B
	Qualifiers: B,J			
Cobalt	0.0037 B	0.050	mg/L	SW846 6010B
Copper	0.0023 B	0.025	mg/L	SW846 6010B
Iron	1.2 J,E	0.10	mg/L	SW846 6010B
Nickel	0.015 B	0.040	mg/L	SW846 6010B
Potassium	11.6	5.0	mg/L	SW846 6010B
Sodium	32.1	5.0	mg/L	SW846 6010B
Vanadium	0.0012	0.050	mg/L	SW846 6010B
	Qualifiers: B,J			
Caprolactam	1.1 J	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	20	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	1.3	1.0	ug/L	SW846 8260B
Vinyl chloride	1.0	1.0	ug/L	SW846 8260B
Acetone	2.2 J	10	ug/L	SW846 8260B
Phosphorus as orthophosphate	0.02 B,J	0.1	mg/L	MCAWW 365.2
Nitrate as N	0.12	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon	5	1	mg/L	MCAWW 415.1
Nitrogen, as Ammonia	0.09 B,J	0.2	mg/L	MCAWW 350.3
GW122104DS011 12/21/04 09:25 002				
Arsenic	0.0035 B	0.010	mg/L	SW846 6010B
Thallium	0.0051 B	0.010	mg/L	SW846 6010B
Barium	0.50	0.20	mg/L	SW846 6010B
Calcium	176	5.0	mg/L	SW846 6010B
Iron	23.2 J	0.10	mg/L	SW846 6010B
Magnesium	50.9 J	5.0	mg/L	SW846 6010B
Manganese	1.7 J	0.015	mg/L	SW846 6010B
Potassium	7.1	5.0	mg/L	SW846 6010B
Sodium	30.1	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L220190

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS011 12/21/04 09:25 002				
Acetophenone	3.9 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	1.2 J,B	10	ug/L	SW846 8270C
Caprolactam	0.91 J	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	150	5.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	11	5.0	ug/L	SW846 8260B
Vinyl chloride	17	5.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A4L220190

PARAMETER	ANALYTICAL METHOD
ortho-Phosphate	MCAWW 365.2
Ammonia Nitrogen	MCAWW 350.3
Chemical Oxygen Demand	MCAWW 410.4
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate as N	MCAWW 300.0A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Kjeldahl Nitrogen	MCAWW 351.3
Total Organic Carbon	MCAWW 415.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
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

A4L220190

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1NA7	001	GW122104DS005	12/21/04	10:40
G1NCP	002	GW122104DS011	12/21/04	09:25

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

GC/MS Volatiles

Lot-Sample #...: A4L220190-001 **Work Order #...:** G1NA71CD **Matrix.....:** WG
Date Sampled...: 12/21/04 10:40 **Date Received..:** 12/22/04
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003461
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**20**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	**1.3**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	**1.0**	**1.0**	**ug/L**	**0.21**
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	**2.2 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

GC/MS Volatiles

Lot-Sample #...: A4L220190-001 Work Order #...: G1NA71CD Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

GC/MS Semivolatiles

Lot-Sample #...: A4L220190-001 **Work Order #...:** G1NA71CE **Matrix.....:** WG
Date Sampled...: 12/21/04 10:40 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	ND	10	ug/L	0.19
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.36
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	**1.1 J**	**10**	**ug/L**	**0.73**
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	ND	10	ug/L	0.13
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

GC/MS Semivolatiles

Lot-Sample #...: A4L220190-001 **Work Order #...:** G1NA71CE **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	68	(32 - 112)
2-Fluorobiphenyl	60	(30 - 110)
Terphenyl-d14	79	(10 - 144)
Phenol-d5	32	(10 - 113)
2-Fluorophenol	33	(13 - 110)
2,4,6-Tribromophenol	32	(21 - 122)

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

TOTAL Metals

Lot-Sample #...: A4L220190-001 Matrix.....: WG
Date Sampled...: 12/21/04 10:40 Date Received..: 12/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363030						
Calcium	201	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AG
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	46.1 J	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AM
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.9	0.015	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AN
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.085 B	0.20	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AA
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	0.0029 B	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AW
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AX
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AC
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.094 B	0.20	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AD
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	0.037	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1NA71A0
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	ND	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AE
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	ND	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1NA71A1
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	0.00047 B	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AF
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	0.0033 B,J	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AH
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	0.0037 B	0.050	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AJ
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

TOTAL Metals

Lot-Sample #...: A4L220190-001 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	0.0023 B	0.025	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AK
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	1.2 J,E	0.10	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AL
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	0.015 B	0.040	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AP
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	11.6	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AQ
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AR
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	32.1	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AT
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	0.0012 B,J	0.050	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AU
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/28-01/04/05	G1NA71AV
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/28-12/29/04	G1NA71A2
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

E Matrix interference.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

DISSOLVED Metals

Lot-Sample #...: A4L220190-001 Matrix.....: WG
Date Sampled...: 12/21/04 10:40 Date Received..: 12/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363030						
Calcium	205	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71A3
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	48.2 J	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1NA71A4
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.8	0.015	mg/L	SW846 6010B	12/28-01/04/05	G1NA71A5
		Dilution Factor: 1		MDL.....: 0.0012		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS005

General Chemistry

Lot-Sample #...: A4L220190-001 Work Order #...: G1NA7 Matrix.....: WG
Date Sampled...: 12/21/04 10:40 Date Received..: 12/22/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate	0.02 B,J	0.1	mg/L	MCAWW 365.2	12/22/04	4357504
	Dilution Factor: 1			MDL.....: 0.006		
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
	Dilution Factor: 1			MDL.....: 7.1		
Nitrate as N	0.12	0.10	mg/L	MCAWW 300.0A	12/23/04	4362292
	Dilution Factor: 1			MDL.....: 0.016		
Nitrogen, as Ammonia	0.09 B,J	0.2	mg/L	MCAWW 350.3	12/30/04	4365465
	Dilution Factor: 1			MDL.....: 0.07		
Total Kjeldahl Nitrogen	ND	3	mg/L	MCAWW 351.3	01/03/05	5003487
	Dilution Factor: 1			MDL.....: 2		
Total Organic Carbon	5	1	mg/L	MCAWW 415.1	01/04/05	5004303
	Dilution Factor: 1			MDL.....: 0.08		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

GC/MS Volatiles

Lot-Sample #...: A4L220190-002 Work Order #...: G1NCP1DW Matrix.....: WG
Date Sampled...: 12/21/04 09:25 Date Received..: 12/22/04
Prep Date.....: 12/30/04 Analysis Date..: 12/30/04
Prep Batch #...: 5003461
Dilution Factor: 5 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**150**	**5.0**	**ug/L**	**1.0**
trans-1,2-Dichloroethene	**11**	**5.0**	**ug/L**	0.80
Chloromethane	ND	5.0	ug/L	0.70
Bromomethane	ND	5.0	ug/L	1.8
Vinyl chloride	**17**	**5.0**	**ug/L**	**1.0**
Chloroethane	ND	5.0	ug/L	1.2
Methylene chloride	ND	5.0	ug/L	0.95
Acetone	ND	50	ug/L	3.7
Carbon disulfide	ND	5.0	ug/L	1.4
1,1-Dichloroethene	ND	5.0	ug/L	0.90
1,1-Dichloroethane	ND	5.0	ug/L	1.0
Chloroform	ND	5.0	ug/L	0.80
1,2-Dichloroethane	ND	5.0	ug/L	0.80
2-Butanone	ND	50	ug/L	2.0
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
Carbon tetrachloride	ND	5.0	ug/L	0.95
Bromodichloromethane	ND	5.0	ug/L	0.70
1,2-Dichloropropane	ND	5.0	ug/L	0.75
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.60
Trichloroethene	ND	5.0	ug/L	1.4
Dibromochloromethane	ND	5.0	ug/L	0.95
1,1,2-Trichloroethane	ND	5.0	ug/L	1.1
Benzene	ND	5.0	ug/L	1.1
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.85
Bromoform	ND	5.0	ug/L	0.85
4-Methyl-2-pentanone	ND	50	ug/L	1.6
2-Hexanone	ND	50	ug/L	1.8
Tetrachloroethene	ND	5.0	ug/L	0.95
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.1
Toluene	ND	5.0	ug/L	0.85
Chlorobenzene	ND	5.0	ug/L	1.0
Ethylbenzene	ND	5.0	ug/L	0.95
Styrene	ND	5.0	ug/L	0.65
Xylenes (total)	ND	10	ug/L	2.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	90	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

GC/MS Semivolatiles

Lot-Sample #...: A4L220190-002 Work Order #...: G1NCP1D1 Matrix.....: WG
Date Sampled...: 12/21/04 09:25 Date Received..: 12/22/04
Prep Date.....: 12/27/04 Analysis Date..: 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	**3.9 J**	**10**	**ug/L**	**0.19**
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**1.2 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	**0.91 J**	**10**	**ug/L**	**0.73**
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	ND	10	ug/L	0.13
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

GC/MS Semivolatiles

Lot-Sample #...: A4L220190-002 Work Order #...: G1NCP1D1 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	74	(32 - 112)
2-Fluorobiphenyl	59	(30 - 110)
Terphenyl-d14	84	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	53	(13 - 110)
2,4,6-Tribromophenol	51	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

GC/MS Semivolatiles

Lot-Sample #...: A4L220190-002 Work Order #...: G1NCP1D1 Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

TOTAL Metals

Lot-Sample #...: A4L220190-002 Matrix.....: WG
Date Sampled...: 12/21/04 09:25 Date Received..: 12/22/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4364023						
Aluminum	ND	0.20	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1AA
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	**0.0035 B**	**0.010**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1C4**
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1C7
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1AE
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	**0.50**	**0.20**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1AH**
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1DA
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1AL
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	**0.0051 B**	**0.010**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1DE**
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1AP
		Dilution Factor: 1		MDL.....: 0.00028		
Calcium	**176**	**5.0**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1AT**
		Dilution Factor: 1		MDL.....: 0.33		
Chromium	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1AW
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	ND	0.050	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1A1
		Dilution Factor: 1		MDL.....: 0.00096		
Copper	ND	0.025	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1A4
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**23.2 J**	**0.10**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1A7**
		Dilution Factor: 1		MDL.....: 0.049		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS011

TOTAL Metals

Lot-Sample #...: A4L220190-002 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**50.9 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1CA**
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	**1.7 J**	**0.015**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1CE**
		Dilution Factor: 1		MDL.....: 0.0012		
Nickel	ND	0.040	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1CH
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**7.1**	**5.0**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1CL**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1CP
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**30.1**	**5.0**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1NCP1CT**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1CW
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/29-01/04/05	G1NCP1C1
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/29/04	G1NCP1DH
		Dilution Factor: 1		MDL.....: 0.000029		

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.

SEVERN TRENT STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L220190 **Work Order #...:** G13Q61AA **Matrix.....:** WATER
MB Lot-Sample #: A5A030000-461

Prep Date.....: 12/30/04
Analysis Date..: 12/30/04 **Prep Batch #...:** 5003461
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	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
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	83	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L220190 **Work Order #...:** G13Q61AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220190 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER
MB Lot-Sample #: A4L270000-021

Prep Date.....: 12/27/04
Analysis Date..: 01/04/05 **Prep Batch #...:** 4362021
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Atrazine	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	**0.91 J**	**10**	**ug/L**	**SW846 8270C**
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220190 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(32 - 112)
2-Fluorobiphenyl	53	(30 - 110)
Terphenyl-d14	72	(10 - 144)
Phenol-d5	55	(10 - 113)
2-Fluorophenol	48	(13 - 110)
2,4,6-Tribromophenol	50	(21 - 122)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220190 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER

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

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-030 **Prep Batch #...:** 4363030						
Calcium	ND	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AX
		Dilution Factor: 1				
Magnesium	**0.034 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/28-01/04/05**	**G1TXC1A3**
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A4
		Dilution Factor: 1				
Aluminum	ND	0.20	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AU
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AF
		Dilution Factor: 1				
Antimony	ND	0.060	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AV
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AG
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AA
		Dilution Factor: 1				
Selenium	ND	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AH
		Dilution Factor: 1				
Beryllium	ND	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AW
		Dilution Factor: 1				
Thallium	ND	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1CA
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AC
		Dilution Factor: 1				
Chromium	**0.0028 B**	**0.010**	**mg/L**	**SW846 6010B**	**12/28-01/04/05**	**G1TXC1AD**
		Dilution Factor: 1				
Cobalt	ND	0.050	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A0
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A1
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	**0.060 B**	**0.10**	**mg/L**	**SW846 6010B**	**12/28-01/04/05**	**G1TXC1A2**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A5
		Dilution Factor: 1				
Potassium	ND	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A6
		Dilution Factor: 1				
Silver	ND	0.010	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1AE
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A7
		Dilution Factor: 1				
Vanadium	**0.0012 B**	**0.050**	**mg/L**	**SW846 6010B**	**12/28-01/04/05**	**G1TXC1A8**
		Dilution Factor: 1				
Zinc	ND	0.020	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1A9
		Dilution Factor: 1				
Mercury	ND	0.00020	mg/L	SW846 7470A	12/28-12/29/04	G1TXC1AJ
		Dilution Factor: 1				

MB Lot-Sample #: A4L290000-023 **Prep Batch #...:** 4364023

Aluminum	ND	0.20	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1CU
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DF
		Dilution Factor: 1				
Antimony	**0.0044 B**	**0.060**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1WVG1CV**
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DG
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1CW
		Dilution Factor: 1				
Selenium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DH
		Dilution Factor: 1				
Beryllium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1CX
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DJ
		Dilution Factor: 1				
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C0
		Dilution Factor: 1				
Calcium	ND	5.0	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C1
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C2
		Dilution Factor: 1				
Cobalt	ND	0.050	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C3
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C4
		Dilution Factor: 1				
Iron	**0.056 B**	**0.10**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1WVG1C5**
		Dilution Factor: 1				
Magnesium	**0.025 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1WVG1C6**
		Dilution Factor: 1				
Manganese	**0.0090 B**	**0.015**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1WVG1C7**
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C8
		Dilution Factor: 1				
Potassium	ND	5.0	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1C9
		Dilution Factor: 1				
Silver	ND	0.010	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DA
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DC
		Dilution Factor: 1				
Vanadium	**0.00079 B**	**0.050**	**mg/L**	**SW846 6010B**	**12/29-01/04/05**	**G1WVG1DD**
		Dilution Factor: 1				
Zinc	ND	0.020	mg/L	SW846 6010B	12/29-01/04/05	G1WVG1DE
		Dilution Factor: 1				
Mercury	ND	0.00020	mg/L	SW846 7470A	12/29/04	G1WVG1DK
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

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 #...: A4L220190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-030 **Prep Batch #...:** 4363030						
Calcium	ND	5.0	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1CC
		Dilution Factor: 1				
Magnesium	**0.034 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/28-01/04/05**	**G1TXC1CD**
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	12/28-01/04/05	G1TXC1CE
		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 #...: A4L220190 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: G1V7X1AA		MB Lot-Sample #:	A4L280000-430	
	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1				
Nitrate as N		Work Order #: G1R4D1AA		MB Lot-Sample #:	A4L270000-292	
	ND	0.10	mg/L	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1				
Nitrogen, as Ammonia		Work Order #: G12AR1AA		MB Lot-Sample #:	A4L300000-465	
	0.09 B	**0.2**	**mg/L**	**MCAWW 350.3**	**12/30/04**	**4365465**
		Dilution Factor: 1				
Phosphorus as orthophosphate		Work Order #: G1PXL1AA		MB Lot-Sample #:	A4L220000-504	
	0.01 B	**0.1**	**mg/L**	**MCAWW 365.2**	**12/22/04**	**4357504**
		Dilution Factor: 1				
Total Kjeldahl Nitrogen		Work Order #: G13RX1AA		MB Lot-Sample #:	A5A030000-487	
	ND	3	mg/L	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: G14LC1AA		MB Lot-Sample #:	A5A040000-303	
	ND	1	mg/L	MCAWW 415.1	01/04/05	5004303
		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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-030 **Prep Batch #...:** 4363030					
Calcium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CK
Magnesium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CP
Manganese	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CQ
Arsenic	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AP
Aluminum	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CG
Lead	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AQ
Antimony	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CH
Barium	95	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AK
Selenium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AR
Beryllium	103	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CJ
Thallium	100	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CX
Cadmium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AL
Chromium	106	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1AM
Cobalt	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1CL

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	102	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CM
		Dilution Factor: 1			
Iron	109	(77 - 127)	SW846 6010B	12/28-01/04/05	G1TXC1CN
		Dilution Factor: 1			
Nickel	100	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CR
		Dilution Factor: 1			
Potassium	100	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CT
		Dilution Factor: 1			
Silver	111	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1AN
		Dilution Factor: 1			
Sodium	95	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CU
		Dilution Factor: 1			
Vanadium	101	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CV
		Dilution Factor: 1			
Zinc	103	(80 - 120)	SW846 6010B	12/28-01/04/05	G1TXC1CW
		Dilution Factor: 1			
Mercury	105	(82 - 131)	SW846 7470A	12/28-12/29/04	G1TXC1AT
		Dilution Factor: 1			
LCS Lot-Sample#: A4L290000-023		**Prep Batch #...:** 4364023			
Arsenic	93	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1A9
		Dilution Factor: 1			
Aluminum	90	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1D7
		Dilution Factor: 1			
Lead	93	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1CH
		Dilution Factor: 1			
Antimony	94	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1D8
		Dilution Factor: 1			
Selenium	96	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1CN
		Dilution Factor: 1			

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4L220190 **Work Order #...:** G13Q61AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A5A030000-461 G13Q61AD-LCSD
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003461
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**103**	**(63 - 130)**			**SW846 8260B**
	104	**(63 - 130)**	**0.23**	**(0-20)**	**SW846 8260B**
Trichloroethene	**99**	**(75 - 122)**			**SW846 8260B**
	97	**(75 - 122)**	**1.8**	**(0-20)**	**SW846 8260B**
Benzene	**100**	**(80 - 116)**			**SW846 8260B**
	99	**(80 - 116)**	**1.6**	**(0-20)**	**SW846 8260B**
Toluene	**103**	**(74 - 119)**			**SW846 8260B**
	101	**(74 - 119)**	**1.8**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**101**	**(76 - 117)**			**SW846 8260B**
	99	**(76 - 117)**	**1.3**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	86	(61 - 128)
Toluene-d8	95	(76 - 110)
	94	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	97	(74 - 116)

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 #...: A4L220190 **Work Order #...:** G1Q7A1AC **Matrix.....:** WATER
LCS Lot-Sample#: A4L270000-021
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**75**	**(39 - 118)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**56**	**(31 - 110)**	**SW846 8270C**
1,4-Dichlorobenzene	**46**	**(28 - 110)**	**SW846 8270C**
4-Chloro-3-methylphenol	**62**	**(29 - 124)**	**SW846 8270C**
2-Chlorophenol	**70**	**(19 - 124)**	**SW846 8270C**
2,4-Dinitrotoluene	**74**	**(47 - 131)**	**SW846 8270C**
4-Nitrophenol	**49**	**(19 - 144)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**83**	**(30 - 115)**	**SW846 8270C**
Pentachlorophenol	**38**	**(10 - 140)**	**SW846 8270C**
Phenol	**47**	**(10 - 131)**	**SW846 8270C**
Pyrene	**71**	**(46 - 130)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	81	(32 - 112)
2-Fluorobiphenyl	75	(30 - 110)
Terphenyl-d14	80	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	58	(13 - 110)
2,4,6-Tribromophenol	71	(21 - 122)

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 #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Barium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1D9
Beryllium	98	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EA
Thallium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1ET
Cadmium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EC
Calcium	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1ED
Chromium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EE
Cobalt	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EF
Copper	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EG
Iron	104	(77 - 127)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EH
Magnesium	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EJ
Manganese	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EK
Nickel	96	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EL
Potassium	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EM
Silver	105	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EN
Sodium	85	(80 - 120)	SW846 6010B Dilution Factor: 1	12/29-01/04/05	G1WVG1EP

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Vanadium	95	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1EQ
		Dilution Factor: 1			
Zinc	101	(80 - 120)	SW846 6010B	12/29-01/04/05	G1WVG1ER
		Dilution Factor: 1			
Mercury	105	(82 - 131)	SW846 7470A	12/29/04	G1WVG1A8
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-030 **Prep Batch #...:** 4363030					
Calcium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1C0
Magnesium	101	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1C1
Manganese	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/04/05	G1TXC1C2

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:G1V7X1AC-LCS/G1V7X1AD-LCSD				LCS Lot-Sample#: A4L280000-430	
	97	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	94	(90 - 110)	2.6	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#:G1R4D1AC-LCS/G1R4D1AD-LCSD				LCS Lot-Sample#: A4L270000-292	
	98	(90 - 110)			MCAWW 300.0A	12/22/04	4362292
	100	(90 - 110)	1.1	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L220190 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia		Work Order #: G12AR1AC	LCS Lot-Sample#: A4L300000-465		
	93	(85 - 114)	MCAWW 350.3	12/30/04	4365465
		Dilution Factor: 1			
Phosphorus as orthophosphate		Work Order #: G1PXL1AC	LCS Lot-Sample#: A4L220000-504		
	92	(89 - 115)	MCAWW 365.2	12/22/04	4357504
		Dilution Factor: 1			
Total Kjeldahl Nitrogen		Work Order #: G13RX1AC	LCS Lot-Sample#: A5A030000-487		
	142	(65 - 144)	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: G14LC1AC	LCS Lot-Sample#: A5A040000-303		
	102	(88 - 115)	MCAWW 415.1	01/04/05	5004303
		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 #...: A4L220190 **Work Order #...:** G1NCP1DX-MS **Matrix.....:** WG
MS Lot-Sample #: A4L220190-002 G1NCP1D0-MSD
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04
Prep Date.....: 12/30/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 5003461
Dilution Factor: 5

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**110**	**(62 - 130)**			**SW846 8260B**
	106	**(62 - 130)**	**3.5**	**(0-20)**	**SW846 8260B**
Trichloroethene	**102**	**(62 - 130)**			**SW846 8260B**
	99	**(62 - 130)**	**2.5**	**(0-20)**	**SW846 8260B**
Benzene	**102**	**(78 - 118)**			**SW846 8260B**
	100	**(78 - 118)**	**1.9**	**(0-20)**	**SW846 8260B**
Toluene	**102**	**(70 - 119)**			**SW846 8260B**
	100	**(70 - 119)**	**2.1**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**97**	**(76 - 117)**			**SW846 8260B**
	95	**(76 - 117)**	**2.6**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(73 - 122)
	94	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	91	(61 - 128)
Toluene-d8	93	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	93	(74 - 116)
	97	(74 - 116)

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 #...: A4L220190 Work Order #...: G1M101A8-MS Matrix.....: WATER
MS Lot-Sample #: A4L220154-009 G1M101A9-MSD
Date Sampled...: 12/21/04 12:15 Date Received..: 12/22/04
Prep Date.....: 12/27/04 Analysis Date..: 01/06/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	69	(26 - 118)			SW846 8270C
	62	(26 - 118)	10	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	53	(22 - 110)			SW846 8270C
	46	(22 - 110)	14	(0-37)	SW846 8270C
1,4-Dichlorobenzene	58	(18 - 110)			SW846 8270C
	51	(18 - 110)	14	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	72	(21 - 124)			SW846 8270C
	67	(21 - 124)	6.9	(0-55)	SW846 8270C
2-Chlorophenol	65	(19 - 124)			SW846 8270C
	59	(19 - 124)	8.5	(0-43)	SW846 8270C
2,4-Dinitrotoluene	81	(31 - 131)			SW846 8270C
	79	(31 - 131)	2.0	(0-32)	SW846 8270C
4-Nitrophenol	67	(10 - 145)			SW846 8270C
	65	(10 - 145)	2.8	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl-amine	75	(18 - 115)			SW846 8270C
	67	(18 - 115)	11	(0-36)	SW846 8270C
Pentachlorophenol	80	(10 - 140)			SW846 8270C
	78	(10 - 140)	1.6	(0-56)	SW846 8270C
Phenol	65	(10 - 131)			SW846 8270C
	60	(10 - 131)	6.8	(0-43)	SW846 8270C
Pyrene	76	(27 - 138)			SW846 8270C
	74	(27 - 138)	2.2	(0-31)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	65	(32 - 112)
2-Fluorobiphenyl	64	(30 - 110)
	59	(30 - 110)
Terphenyl-d14	77	(10 - 144)
	74	(10 - 144)
Phenol-d5	65	(10 - 113)
	61	(10 - 113)
2-Fluorophenol	64	(13 - 110)
	60	(13 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220190 **Work Order #...:** G1M101A8-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L220154-009 G1M101A9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	78	(21 - 122)
	74	(21 - 122)

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 #...: A4L220190 **Work Order #...:** G1NCP1D2-MS **Matrix.....:** WG
MS Lot-Sample #: A4L220190-002 G1NCP1D3-MSD
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**67**	**(26 - 118)**			**SW846 8270C**
	65	**(26 - 118)**	**1.8**	**(0-35)**	**SW846 8270C**
4-Chloro-3-methylphenol	**62**	**(21 - 124)**			**SW846 8270C**
	72	**(21 - 124)**	**15**	**(0-55)**	**SW846 8270C**
2-Chlorophenol	**66**	**(19 - 124)**			**SW846 8270C**
	52	**(19 - 124)**	**25**	**(0-43)**	**SW846 8270C**
2,4-Dinitrotoluene	**70**	**(31 - 131)**			**SW846 8270C**
	62	**(31 - 131)**	**12**	**(0-32)**	**SW846 8270C**
4-Nitrophenol	**71**	**(10 - 145)**			**SW846 8270C**
	63	**(10 - 145)**	**11**	**(0-34)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**75**	**(18 - 115)**			**SW846 8270C**
	75	**(18 - 115)**	**0.51**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**53**	**(10 - 140)**			**SW846 8270C**
	44	**(10 - 140)**	**18**	**(0-56)**	**SW846 8270C**
Phenol	**61**	**(10 - 131)**			**SW846 8270C**
	61	**(10 - 131)**	**0.83**	**(0-43)**	**SW846 8270C**
Pyrene	**72**	**(27 - 138)**			**SW846 8270C**
	71	**(27 - 138)**	**2.3**	**(0-31)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	81	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
	62	(30 - 110)
Terphenyl-d14	82	(10 - 144)
	80	(10 - 144)
Phenol-d5	63	(10 - 113)
	55	(10 - 113)
2-Fluorophenol	47	(13 - 110)
	44	(13 - 110)
2,4,6-Tribromophenol	74	(21 - 122)
	62	(21 - 122)

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 #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/21/04 12:15 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L220154-009 **Prep Batch #...:** 4363030							
Calcium	99	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CM
	90	(75 - 125)	2.9	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CN
		Dilution Factor: 1					
Magnesium	105	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101C2
	101	(75 - 125)	2.5	(0-20)	SW846 6010B	12/28-01/04/05	G1M101C3
		Dilution Factor: 1					
Manganese	100	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101C5
	99	(75 - 125)	1.4	(0-20)	SW846 6010B	12/28-01/04/05	G1M101C6
		Dilution Factor: 1					
Aluminum	97	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CC
	95	(75 - 125)	2.2	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CD
		Dilution Factor: 1					
Arsenic	100	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AU
	99	(75 - 125)	0.82	(0-20)	SW846 6010B	12/28-01/04/05	G1M101AV
		Dilution Factor: 1					
Antimony	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CF
	99	(75 - 125)	1.4	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CG
		Dilution Factor: 1					
Lead	98	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AX
	97	(75 - 125)	1.1	(0-20)	SW846 6010B	12/28-01/04/05	G1M101A0
		Dilution Factor: 1					
Barium	95	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AF
	93	(75 - 125)	1.7	(0-20)	SW846 6010B	12/28-01/04/05	G1M101AG
		Dilution Factor: 1					
Selenium	104	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101A2
	103	(75 - 125)	1.0	(0-20)	SW846 6010B	12/28-01/04/05	G1M101A3
		Dilution Factor: 1					
Beryllium	102	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CJ
	101	(75 - 125)	1.3	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CK
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/21/04 12:15 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	98	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101DQ
	97	(75 - 125)	1.5	(0-20)	SW846 6010B	12/28-01/04/05	G1M101DR
		Dilution Factor: 1					
Cadmium	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AJ
	100	(75 - 125)	0.97	(0-20)	SW846 6010B	12/28-01/04/05	G1M101AK
		Dilution Factor: 1					
Chromium	103	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AM
	101	(75 - 125)	1.7	(0-20)	SW846 6010B	12/28-01/04/05	G1M101AN
		Dilution Factor: 1					
Cobalt	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CQ
	99	(75 - 125)	1.2	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CR
		Dilution Factor: 1					
Copper	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CU
	99	(75 - 125)	2.0	(0-20)	SW846 6010B	12/28-01/04/05	G1M101CV
		Dilution Factor: 1					
Iron	109	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101CX
	108	(75 - 125)	0.99	(0-20)	SW846 6010B	12/28-01/04/05	G1M101C0
		Dilution Factor: 1					
Nickel	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101C8
	100	(75 - 125)	0.81	(0-20)	SW846 6010B	12/28-01/04/05	G1M101C9
		Dilution Factor: 1					
Potassium	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101DC
	98	(75 - 125)	2.6	(0-20)	SW846 6010B	12/28-01/04/05	G1M101DD
		Dilution Factor: 1					
Silver	111	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101AQ
	110	(75 - 125)	0.80	(0-20)	SW846 6010B	12/28-01/04/05	G1M101AR
		Dilution Factor: 1					
Sodium	102	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101DF
	84	(75 - 125)	4.7	(0-20)	SW846 6010B	12/28-01/04/05	G1M101DG
		Dilution Factor: 1					
Vanadium	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101DJ
	99	(75 - 125)	1.6	(0-20)	SW846 6010B	12/28-01/04/05	G1M101DK
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/21/04 12:15 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	105	(75 - 125)			SW846 6010B	12/28-01/04/05	G1M101DM
	104	(75 - 125)	1.1	(0-20)	SW846 6010B	12/28-01/04/05	G1M101DN
		Dilution Factor: 1					
Mercury	111	(68 - 149)			SW846 7470A	12/28-12/29/04	G1M101A5
	108	(68 - 149)	2.5	(0-20)	SW846 7470A	12/28-12/29/04	G1M101A6
		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 #...: A4L220190 **Matrix.....:** WG
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L220190-002 **Prep Batch #...:** 4364023							
Aluminum	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AC
	97	(75 - 125)	0.12	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AD
		Dilution Factor: 1					
Arsenic	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1C5
	100	(75 - 125)	0.07	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1C6
		Dilution Factor: 1					
Antimony	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AF
	100	(75 - 125)	0.25	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AG
		Dilution Factor: 1					
Lead	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1C8
	98	(75 - 125)	0.37	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1C9
		Dilution Factor: 1					
Barium	96	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AJ
	95	(75 - 125)	0.44	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AK
		Dilution Factor: 1					
Selenium	102	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1DC
	102	(75 - 125)	0.18	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1DD
		Dilution Factor: 1					
Beryllium	103	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AM
	102	(75 - 125)	0.06	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AN
		Dilution Factor: 1					
Thallium	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1DF
	97	(75 - 125)	0.36	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1DG
		Dilution Factor: 1					
Cadmium	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AQ
	100	(75 - 125)	0.15	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AR
		Dilution Factor: 1					
Calcium	106	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AU
	106	(75 - 125)	0.0	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1AV
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WG
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	102	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1AX
	102	(75 - 125)	0.49	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1A0
		Dilution Factor: 1					
Cobalt	98	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1A2
	98	(75 - 125)	0.0	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1A3
		Dilution Factor: 1					
Copper	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1A5
	99	(75 - 125)	0.71	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1A6
		Dilution Factor: 1					
Iron	NC,MSB	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1A8
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1A9
		Dilution Factor: 1					
Magnesium	107	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CC
	107	(75 - 125)	0.02	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CD
		Dilution Factor: 1					
Manganese	111	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CF
	109	(75 - 125)	0.28	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CG
		Dilution Factor: 1					
Nickel	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CJ
	100	(75 - 125)	0.07	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CK
		Dilution Factor: 1					
Potassium	103	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CM
	102	(75 - 125)	1.0	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CN
		Dilution Factor: 1					
Silver	112	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CQ
	112	(75 - 125)	0.26	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CR
		Dilution Factor: 1					
Sodium	96	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CU
	96	(75 - 125)	0.20	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1CV
		Dilution Factor: 1					
Vanadium	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1CX
	100	(75 - 125)	0.36	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1C0
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WG
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	104	(75 - 125)			SW846 6010B	12/29-01/04/05	G1NCP1C2
	103	(75 - 125)	0.74	(0-20)	SW846 6010B	12/29-01/04/05	G1NCP1C3
		Dilution Factor: 1					
Mercury	93	(68 - 149)			SW846 7470A	12/29/04	G1NCP1DJ
	96	(68 - 149)	2.8	(0-20)	SW846 7470A	12/29/04	G1NCP1DK
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/23/04 11:41 **Date Received..:** 12/28/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L280149-003 **Prep Batch #...:** 4364023							
Aluminum	95	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1D2
	96	(75 - 125)	1.2	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1D3
		Dilution Factor: 1					
Arsenic	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FU
	98	(75 - 125)	0.69	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FV
		Dilution Factor: 1					
Antimony	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1D5
	98	(75 - 125)	0.66	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1D6
		Dilution Factor: 1					
Lead	96	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FX
	97	(75 - 125)	0.59	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1F0
		Dilution Factor: 1					
Barium	92	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1D8
	93	(75 - 125)	0.64	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1D9
		Dilution Factor: 1					
Selenium	99	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1F2
	100	(75 - 125)	0.67	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1F3
		Dilution Factor: 1					
Beryllium	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EC
	101	(75 - 125)	0.94	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1ED
		Dilution Factor: 1					
Thallium	96	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1F5
	96	(75 - 125)	0.20	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1F6
		Dilution Factor: 1					
Cadmium	99	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EF
	100	(75 - 125)	0.72	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1EG
		Dilution Factor: 1					
Calcium	89	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EJ
	98	(75 - 125)	2.6	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1EK
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/23/04 11:41 **Date Received..:** 12/28/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EM
	101	(75 - 125)	0.86	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1EN
		Dilution Factor: 1					
Cobalt	96	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EQ
	97	(75 - 125)	0.87	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1ER
		Dilution Factor: 1					
Copper	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EU
	98	(75 - 125)	0.49	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1EV
		Dilution Factor: 1					
Iron	99	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1EX
	99	(75 - 125)	0.18	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1E0
		Dilution Factor: 1					
Magnesium	100	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1E2
	103	(75 - 125)	1.6	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1E3
		Dilution Factor: 1					
Manganese	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1E5
	97	(75 - 125)	0.81	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1E6
		Dilution Factor: 1					
Nickel	98	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1E8
	99	(75 - 125)	0.85	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1E9
		Dilution Factor: 1					
Potassium	102	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FC
	102	(75 - 125)	0.28	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FD
		Dilution Factor: 1					
Silver	109	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FF
	111	(75 - 125)	1.5	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FG
		Dilution Factor: 1					
Sodium	92	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FJ
	93	(75 - 125)	0.78	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FK
		Dilution Factor: 1					
Vanadium	98	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FM
	98	(75 - 125)	0.59	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FN
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/23/04 11:41 **Date Received..:** 12/28/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	97	(75 - 125)			SW846 6010B	12/29-01/04/05	G1VJR1FQ
	98	(75 - 125)	0.87	(0-20)	SW846 6010B	12/29-01/04/05	G1VJR1FR
		Dilution Factor: 1					
Mercury	99	(68 - 149)			SW846 7470A	12/29/04	G1VJR1F8
	98	(68 - 149)	1.5	(0-20)	SW846 7470A	12/29/04	G1VJR1F9
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/20/04 16:32 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: G1FV81AM-MS/G1FV81AN-MSD				MS Lot-Sample #: A4L180161-002	
	93	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	96	(90 - 110)	2.8	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#: G1KJL1AJ-MS/G1KJL1AK-MSD				MS Lot-Sample #: A4L210138-001	
	108	(80 - 120)			MCAWW 300.0A	12/22/04	4362292
	107	(80 - 120)	0.70	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					
Nitrogen, as Ammonia		WO#: G1F371C6-MS/G1F371C7-MSD				MS Lot-Sample #: A4L180188-001	
	92	(63 - 126)			MCAWW 350.3	12/30/04	4365465
	90	(63 - 126)	1.2	(0-29)	MCAWW 350.3	12/30/04	4365465
		Dilution Factor: 1					
Phosphorus as orthophosphate		WO#: G1K2F1CF-MS/G1K2F1CG-MSD				MS Lot-Sample #: A4L210190-003	
	99	(56 - 139)			MCAWW 365.2	12/22/04	4357504
	99	(56 - 139)	0.19	(0-20)	MCAWW 365.2	12/22/04	4357504
		Dilution Factor: 1					
Total Kjeldahl Nitrogen		WO#: G1K2F1CH-MS/G1K2F1CJ-MSD				MS Lot-Sample #: A4L210190-003	
	101	(10 - 200)			MCAWW 351.3	01/03/05	5003487
	72 *	(10 - 200)	33	(0-20)	MCAWW 351.3	01/03/05	5003487
		Dilution Factor: 1					
Total Organic Carbon		WO#: G1K2F1CK-MS/G1K2F1CL-MSD				MS Lot-Sample #: A4L210190-003	
	96	(72 - 136)			MCAWW 415.1	01/04/05	5004303
	97	(72 - 136)	0.90	(0-20)	MCAWW 415.1	01/04/05	5004303
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L220190 **Matrix.....:** WATER
Date Sampled...: 12/20/04 08:00 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
		Work Order #...: G1KXH1AJ		MS Lot-Sample #:	A4L210176-002
Chemical Oxygen Demand (COD)	95	(90 - 110)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

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SHIPPED TO (Laboratory Name): STL -Olhio

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM- FAIRFAX

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: Dave Kendrick **PRINTED NAME:** David Kendrick

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOC	TCL VOC	Dissolved metals	T. TAL metals	COD	TKN, Ammonia	SVOC	other phos-NO3	REMARKS
	12/21/04	1040	GW122104DS005	W	13	3	3	1	1	1	1	2	1	CALL PAT Klick with Questions
		0925	011		7		3	1	1			2		
			011 MS		7		3	1	1			2		
			011 MSD		7		3	1	1			2		SSOW #095001

STL Cooler Receipt Form/Narrative **Lot Number:** A4L 220190

North Canton Facility

Client: CRA Project: GM-Fairfax Quote#: 62183

Cooler Received on: 12/22/04 Opened on: 12/22/04 by: (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other:

STL Cooler No# See back Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2
   Were the custody seals signed and dated? Yes ☐ No ☒ NA ☐
2. Shipper's packing slip attached to this form? Yes ☒ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Did you sign the custody papers 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/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H_2O Slurry ☐

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 and/or tags be reconciled with the COC? Yes ☒ No ☐
9. Were samples at the correct pH? (record below/on back) Yes ☐ No ☒ NA ☐
10. Were correct bottles used for the tests 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 ☐

Contacted PM ____ Date: ____ by: ____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning:

√	

1. CHAIN OF CUSTODY

The following discrepancies occurred:

On COC there are no dashes between numbers on labels however there are. Ex. COC = GW122104DS005 Label = GW-122104-DS-005.

2. SAMPLE CONDITION

Sample(s) ____ were received after the recommended holding time had expired.

Sample(s) ____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) 005 (1x1L) & 011 (3x1L) w/ HNO3 were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 101104HNO3; Sulfuric Acid Lot # 102804-H2SO4; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*

Sample(s) ____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Logged samples for COC IDs.

Client ID	pH	Date	Initials
005	<2 <2 <2 <2	12/22/04	JM
011	<2 <2 <2 <2 <2 <2	"	"

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant
K812	3.3°C	IR	Ice
L1	3.8°C	TR	Ice

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

SEVERN TRENT STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 12559-52

GM-FAIRFAX

Lot #: A4L230127

Phil Harvey

Conestoga-Rovers & Associates
8615 W. Bryn Mawr
Chicago, IL 60631

SEVERN TRENT LABORATORIES, INC.

VALIDATED DATA
Project # 012559-52
Lot # A4L230127
Date 02/01/05

Amy L. McCormick
Project Manager

January 12, 2005

CASE NARRATIVE

A4L230127

The following report contains the analytical results for six water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Fairfax Site, project number 12559-52. The samples were received December 23, 2004, according to documented sample acceptance procedures.

Samples GW122104DS012, GW122104DSDUP, and GW122104DS013, submitted for Dissolved Metals, were placed on hold as instructed by Susan Scrocchi on December 22, 2004.

STL 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 Susan Scrocchi on January 12, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL'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.

If you have any questions, please call the Project Manager, Amy L. McCormick, 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 1.9 and 2.2°C.

CASE NARRATIVE (continued)

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.

GC/MS SEMIVOLATILES

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.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of 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 GW122104DS006 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".

The matrix spike/matrix spike duplicate(s) for GW122104DS006 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.

CASE NARRATIVE (continued)

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

The Total Kjeldahl Nitrogen matrix spike/matrix spike duplicate(s) for batch(es) 5003485 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.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton 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.

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. STL 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. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. 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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP only*

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

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 may 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. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) 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.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are 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 the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

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/PCB and PAH methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

EXECUTIVE SUMMARY - Detection Highlights

A4L230127

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS006 12/21/04 11:45 001				
Calcium - DISSOLVED	194	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	46.9 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.5	0.015	mg/L	SW846 6010B
Lead	0.0086	0.0030	mg/L	SW846 6010B
Selenium	0.19	0.0050	mg/L	SW846 6010B
Thallium	0.0067	0.010	mg/L	SW846 6010B
	Qualifiers: B,J			
Calcium	204	5.0	mg/L	SW846 6010B
Magnesium	49.0 J	5.0	mg/L	SW846 6010B
Manganese	1.5	0.015	mg/L	SW846 6010B
Aluminum	0.064 B,J	0.20	mg/L	SW846 6010B
Barium	0.16 B	0.20	mg/L	SW846 6010B
Beryllium	0.00074	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Cadmium	0.00051	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Cobalt	0.0074 B	0.050	mg/L	SW846 6010B
Iron	0.096 B	0.10	mg/L	SW846 6010B
Nickel	0.014 B	0.040	mg/L	SW846 6010B
Potassium	9.6 J	5.0	mg/L	SW846 6010B
Sodium	45.7	5.0	mg/L	SW846 6010B
Acetophenone	2.4 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	8.0 J,B	10	ug/L	SW846 8270C
Di-n-butyl phthalate	2.8 J	10	ug/L	SW846 8270C
Phenol	12	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.36 J	1.0	ug/L	SW846 8260B
Phosphorus as orthophosphate	0.04 B	0.1	mg/L	MCAWW 365.2
Nitrate as N	8.7	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon	4	1	mg/L	MCAWW 415.1
Nitrogen, as Ammonia	0.09 B	0.2	mg/L	MCAWW 350.3
GW122104DS012 12/21/04 10:20 002				
Thallium	0.0090	0.010	mg/L	SW846 6010B
	Qualifiers: B,J			
Calcium	124	5.0	mg/L	SW846 6010B
Magnesium	33.3 J	5.0	mg/L	SW846 6010B
Manganese	1.4	0.015	mg/L	SW846 6010B
Aluminum	0.066 B,J	0.20	mg/L	SW846 6010B
Barium	0.69	0.20	mg/L	SW846 6010B
Beryllium	0.00078	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L230127

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS012 12/21/04 10:20 002				
Iron	14.1	0.10	mg/L	SW846 6010B
Potassium	8.1 J	5.0	mg/L	SW846 6010B
Sodium	88.1	5.0	mg/L	SW846 6010B
Acetophenone	1.3 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	1.4 J,B	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.74 J	1.0	ug/L	SW846 8260B
GW122104DSDUP 12/21/04 003				
Thallium	0.0061	0.010	mg/L	SW846 6010B
	Qualifiers: B,J			
Calcium	141	5.0	mg/L	SW846 6010B
Magnesium	38.0 J	5.0	mg/L	SW846 6010B
Manganese	1.5	0.015	mg/L	SW846 6010B
Aluminum	0.073 B,J	0.20	mg/L	SW846 6010B
Barium	0.80	0.20	mg/L	SW846 6010B
Beryllium	0.00079	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Iron	16.0	0.10	mg/L	SW846 6010B
Potassium	9.3 J	5.0	mg/L	SW846 6010B
Sodium	101	5.0	mg/L	SW846 6010B
Acetophenone	2.7 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	4.5 J,B	10	ug/L	SW846 8270C
Caprolactam	1.0 J	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.67 J	1.0	ug/L	SW846 8260B
Carbon disulfide	0.49 J	1.0	ug/L	SW846 8260B
GW122104DS010TRIP 12/21/04 004				
Methylene chloride	4.3	1.0	ug/L	SW846 8260B
Acetone	2.6 J	10	ug/L	SW846 8260B
2-Butanone	3.4 J	10	ug/L	SW846 8260B
2-Hexanone	0.57 J	10	ug/L	SW846 8260B
Toluene	0.24 J	1.0	ug/L	SW846 8260B
GW122104DS007 12/21/04 13:46 005				
Calcium - DISSOLVED	231	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	30.7 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	2.3	0.015	mg/L	SW846 6010B
Calcium	228	5.0	mg/L	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L230127

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS007 12/21/04 13:46 005				
Magnesium	31.6 J	5.0	mg/L	SW846 6010B
Manganese	2.4	0.015	mg/L	SW846 6010B
Aluminum	0.094 B,J	0.20	mg/L	SW846 6010B
Barium	0.23	0.20	mg/L	SW846 6010B
Beryllium	0.00070	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Cobalt	0.0014 B	0.050	mg/L	SW846 6010B
Iron	30.9	0.10	mg/L	SW846 6010B
Potassium	7.5 J	5.0	mg/L	SW846 6010B
Sodium	6.3	5.0	mg/L	SW846 6010B
bis(2-Ethylhexyl) phthalate	1.4 J,B	10	ug/L	SW846 8270C
Di-n-butyl phthalate	1.2 J	10	ug/L	SW846 8270C
Phosphorus as orthophosphate	0.009 B	0.1	mg/L	MCAWW 365.2
Total Organic Carbon	0.8 B	1	mg/L	MCAWW 415.1
Nitrogen, as Ammonia	0.2	0.2	mg/L	MCAWW 350.3
GW122104DS008 12/21/04 15:01 006				
Calcium - DISSOLVED	155	5.0	mg/L	SW846 6010B
Magnesium - DISSOLVED	47.1 J	5.0	mg/L	SW846 6010B
Manganese - DISSOLVED	1.2	0.015	mg/L	SW846 6010B
Selenium	0.026	0.0050	mg/L	SW846 6010B
Calcium	159	5.0	mg/L	SW846 6010B
Magnesium	48.3 J	5.0	mg/L	SW846 6010B
Manganese	1.5	0.015	mg/L	SW846 6010B
Aluminum	0.053 B,J	0.20	mg/L	SW846 6010B
Barium	0.19 B	0.20	mg/L	SW846 6010B
Beryllium	0.00078	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Cadmium	0.00061	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Cobalt	0.0035 B	0.050	mg/L	SW846 6010B
Iron	0.57	0.10	mg/L	SW846 6010B
Nickel	0.0090 B	0.040	mg/L	SW846 6010B
Potassium	9.5 J	5.0	mg/L	SW846 6010B
Sodium	84.7	5.0	mg/L	SW846 6010B
bis(2-Ethylhexyl) phthalate	1.3 J,B	10	ug/L	SW846 8270C
Phenol	4.5 J	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	4.0	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.21 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L230127

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW122104DS008 12/21/04 15:01 006				
Trichloroethene	1.9	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.8	1.0	ug/L	SW846 8260B
Phosphorus as orthophosphate	0.01 B	0.1	mg/L	MCAWW 365.2
Nitrate as N	1.0	0.10	mg/L	MCAWW 300.0A
Total Organic Carbon	4	1	mg/L	MCAWW 415.1
Nitrogen, as Ammonia	0.1 B	0.2	mg/L	MCAWW 350.3
Chemical Oxygen Demand (COD)	24.3	10.0	mg/L	MCAWW 410.4
GW122104DS013 12/21/04 13:07 007				
Arsenic	0.015	0.010	mg/L	SW846 6010B
Selenium	0.0048 B	0.0050	mg/L	SW846 6010B
Calcium	129	5.0	mg/L	SW846 6010B
Magnesium	35.1 J	5.0	mg/L	SW846 6010B
Manganese	1.7	0.015	mg/L	SW846 6010B
Aluminum	0.054 B,J	0.20	mg/L	SW846 6010B
Barium	0.33	0.20	mg/L	SW846 6010B
Beryllium	0.00079	0.0050	mg/L	SW846 6010B
	Qualifiers: B,J			
Iron	17.5	0.10	mg/L	SW846 6010B
Potassium	7.7 J	5.0	mg/L	SW846 6010B
Sodium	43.5	5.0	mg/L	SW846 6010B
Acetophenone	1.5 J	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	24 B	10	ug/L	SW846 8270C
Caprolactam	1.3 J	10	ug/L	SW846 8270C
Di-n-butyl phthalate	1.8 J	10	ug/L	SW846 8270C
Phenol	6.2 J	10	ug/L	SW846 8270C
cis-1,2-Dichloroethene	0.87 J	1.0	ug/L	SW846 8260B
Carbon disulfide	0.74 J	1.0	ug/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A4L230127

PARAMETER	ANALYTICAL METHOD
ortho-Phosphate	MCAWW 365.2
Ammonia Nitrogen	MCAWW 350.3
Chemical Oxygen Demand	MCAWW 410.4
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Nitrate as N	MCAWW 300.0A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Total Kjeldahl Nitrogen	MCAWW 351.3
Total Organic Carbon	MCAWW 415.1
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
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

A4L230127

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1QPP	001	GW122104DS006	12/21/04	11:45
G1QPX	002	GW122104DS012	12/21/04	10:20
G1QP2	003	GW122104DSDUP	12/21/04	
G1QP3	004	GW122104DS010TRIP	12/21/04	
G1QP7	005	GW122104DS007	12/21/04	13:46
G1QP9	006	GW122104DS008	12/21/04	15:01
G1QQC	007	GW122104DS013	12/21/04	13:07

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

GC/MS Volatiles

Lot-Sample #...: A4L230127-001 **Work Order #...:** G1QPP1CD **Matrix.....:** WG
Date Sampled...: 12/21/04 11:45 **Date Received..:** 12/23/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**0.36 J**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	92	(61 - 128)
Toluene-d8	104	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

GC/MS Volatiles

Lot-Sample #...: A4L230127-001 Work Order #...: G1QPP1CD Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-001 Work Order #...: G1QPP1CE Matrix.....: WG
Date Sampled...: 12/21/04 11:45 Date Received..: 12/23/04
Prep Date.....: 12/27/04 Analysis Date..: 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	**2.4 J**	**10**	**ug/L**	**0.19**
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**8.0 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	**2.8 J**	**10**	**ug/L**	**0.13**
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-001 **Work Order #...:** G1QPP1CE **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	**12**	**10**	**ug/L**	**0.14**
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	63	(32 - 112)
2-Fluorobiphenyl	48	(30 - 110)
Terphenyl-d14	71	(10 - 144)
Phenol-d5	63	(10 - 113)
2-Fluorophenol	55	(13 - 110)
2,4,6-Tribromophenol	41	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-001 Work Order #...: G1QPP1CE Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

TOTAL Metals

Lot-Sample #...: A4L230127-001 Matrix.....: WG
Date Sampled...: 12/21/04 11:45 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	204	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AG
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	49.0 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AM
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.5	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AN
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.064 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AA
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AW
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	0.0086	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AX
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AC
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.16 B	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AD
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	0.19	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1A0
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00074 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AE
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	0.0067 B,J	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1A1
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	0.00051 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AF
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AH
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	0.0074 B	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AJ
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

TOTAL Metals

Lot-Sample #...: A4L230127-001 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AK
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**0.096 B**	**0.10**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPP1AL**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	**0.014 B**	**0.040**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPP1AP**
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**9.6 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPP1AQ**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AR
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**45.7**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPP1AT**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AU
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1AV
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QPP1A2
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

DISSOLVED Metals

Lot-Sample #...: A4L230127-001 Matrix.....: WG
Date Sampled...: 12/21/04 11:45 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	194	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1A3
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	46.9 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1A4
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.5	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QPP1A5
		Dilution Factor: 1		MDL.....: 0.0012		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS006

General Chemistry

Lot-Sample #...: A4L230127-001 **Work Order #...:** G1QPP **Matrix.....:** WG
Date Sampled...: 12/21/04 11:45 **Date Received..:** 12/23/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate	**0.04 B**	**0.1**	**mg/L**	**MCAWW 365.2**	**12/23/04**	**4362173**
		Dilution Factor: 1		MDL.....: 0.006		
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1		MDL.....: 7.1		
Nitrate as N	**8.7**	**0.10**	**mg/L**	**MCAWW 300.0A**	**12/23/04**	**4362292**
		Dilution Factor: 1		MDL.....: 0.016		
Nitrogen, as Ammonia	**0.09 B**	**0.2**	**mg/L**	**MCAWW 350.3**	**12/28/04**	**4363594**
		Dilution Factor: 1		MDL.....: 0.07		
Total Kjeldahl Nitrogen	ND	3	mg/L	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1		MDL.....: 2		
Total Organic Carbon	**4**	**1**	**mg/L**	**MCAWW 415.1**	**12/30/04**	**4365241**
		Dilution Factor: 1		MDL.....: 0.08		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

GC/MS Volatiles

Lot-Sample #...: A4L230127-002 **Work Order #...:** G1QPX1A6 **Matrix.....:** WG
Date Sampled...: 12/21/04 10:20 **Date Received..:** 12/23/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**0.74 J**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	96	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

GC/MS Volatiles

Lot-Sample #...: A4L230127-002 Work Order #...: G1QPX1A6 Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-002 **Work Order #...:** G1QPX1A7 **Matrix.....:** WG
Date Sampled...: 12/21/04 10:20 **Date Received..:** 12/23/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	**1.3 J**	**10**	**ug/L**	**0.19**
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**1.4 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	ND	10	ug/L	0.13
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-002 Work Order #...: G1QPX1A7 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	68	(32 - 112)
2-Fluorobiphenyl	56	(30 - 110)
Terphenyl-d14	79	(10 - 144)
Phenol-d5	65	(10 - 113)
2-Fluorophenol	51	(13 - 110)
2,4,6-Tribromophenol	54	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-002 Work Order #...: G1QPX1A7 Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

TOTAL Metals

Lot-Sample #...: A4L230127-002 Matrix.....: WG
Date Sampled...: 12/21/04 10:20 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	124	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AG
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	33.3 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AM
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.4	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AN
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.066 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AA
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AW
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AX
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AC
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.69	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AD
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1A0
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00078 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AE
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	0.0090 B,J	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1A1
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AF
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AH
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AJ
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS012

TOTAL Metals

Lot-Sample #...: A4L230127-002 **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AK
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**14.1**	**0.10**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPX1AL**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	ND	0.040	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AP
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**8.1 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPX1AQ**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AR
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**88.1**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QPX1AT**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AU
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QPX1AV
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QPX1A2
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

GC/MS Volatiles

Lot-Sample #...: A4L230127-003 Work Order #...: G1QP21AH Matrix.....: WG
Date Sampled...: 12/21/04 Date Received..: 12/23/04
Prep Date.....: 12/29/04 Analysis Date..: 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**0.67 J**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	**0.49 J**	**1.0**	**ug/L**	**0.28**
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	101	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

GC/MS Volatiles

Lot-Sample #...: A4L230127-003 Work Order #...: G1QP21AH Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-003 Work Order #...: G1QP21AJ Matrix.....: WG
Date Sampled...: 12/21/04 Date Received..: 12/23/04
Prep Date.....: 12/27/04 Analysis Date..: 01/04/05
Prep Batch #...: 4362022
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	**2.7 J**	**10**	**ug/L**	**0.19**
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**4.5 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	**1.0 J**	**10**	**ug/L**	**0.73**
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	ND	10	ug/L	0.13
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-003 Work Order #...: G1QP21AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	92	(32 - 112)
2-Fluorobiphenyl	71	(30 - 110)
Terphenyl-d14	91	(10 - 144)
Phenol-d5	81	(10 - 113)
2-Fluorophenol	74	(13 - 110)
2,4,6-Tribromophenol	69	(21 - 122)

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-003 Work Order #...: G1QP21AJ Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

TOTAL Metals

Lot-Sample #...: A4L230127-003 Matrix.....: WG
Date Sampled...: 12/21/04 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	141	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AQ
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	38.0 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AW
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.5	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AX
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.073 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AK
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A6
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A7
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AL
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.80	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AM
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AA
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00079 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AN
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	0.0061 B,J	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AC
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AP
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AR
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AT
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DSDUP

TOTAL Metals

Lot-Sample #...: A4L230127-003 **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QP21AU
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**16.0**	**0.10**	**mg/L**	***SW846 6010B***	**12/27-12/28/04**	**G1QP21AV**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	ND	0.040	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A0
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**9.3 J**	**5.0**	**mg/L**	***SW846 6010B***	**12/27-12/28/04**	**G1QP21A1**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A2
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**101**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP21A3**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A4
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QP21A5
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QP21AD
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS010TRIP

GC/MS Volatiles

Lot-Sample #...: A4L230127-004 Work Order #...: G1QP31AA Matrix.....: WG
Date Sampled...: 12/21/04 Date Received..: 12/23/04
Prep Date.....: 12/29/04 Analysis Date..: 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	**4.3**	**1.0**	**ug/L**	**0.19**
Acetone	**2.6 J**	**10**	**ug/L**	**0.74**
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	**3.4 J**	**10**	**ug/L**	**0.39**
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	**0.57 J**	**10**	**ug/L**	**0.35**
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	**0.24 J**	**1.0**	**ug/L**	**0.17**
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS010TRIP

GC/MS Volatiles

Lot-Sample #...: A4L230127-004 Work Order #...: G1QP31AA Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

GC/MS Volatiles

Lot-Sample #...: A4L230127-005 **Work Order #...:** G1QP71CD **Matrix.....:** WG
Date Sampled...: 12/21/04 13:46 **Date Received..:** 12/23/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	103	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-005 **Work Order #...:** G1QP71CE **Matrix.....:** WG
Date Sampled...: 12/21/04 13:46 **Date Received..:** 12/23/04
Prep Date.....: 12/27/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4362022
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	ND	10	ug/L	0.19
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**1.4 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	**1.2 J**	**10**	**ug/L**	**0.13**
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-005 **Work Order #...:** G1QP71CE **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopentadiene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propylamine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	ND	10	ug/L	0.14
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichlorophenol	ND	10	ug/L	0.13
2,4,6-Trichlorophenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	75	(32 - 112)
2-Fluorobiphenyl	61	(30 - 110)
Terphenyl-d14	83	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	69	(13 - 110)
2,4,6-Tribromophenol	65	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-005 Work Order #...: G1QP71CE Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

TOTAL Metals

Lot-Sample #...: A4L230127-005 Matrix.....: WG
Date Sampled...: 12/21/04 13:46 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	228	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AT
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	31.6 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A0
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	2.4	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A1
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.094 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AM
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A8
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A9
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AN
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.23	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AP
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AA
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00070 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AQ
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AC
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AR
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AU
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	0.0014 B	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AV
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

TOTAL Metals

Lot-Sample #...: A4L230127-005 Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QP71AW
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**30.9**	**0.10**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP71AX**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	ND	0.040	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A2
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**7.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP71A3**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A4
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**6.3**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP71A5**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A6
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QP71A7
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QP71AD
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

DISSOLVED Metals

Lot-Sample #...: A4L230127-005 Matrix.....: WG
Date Sampled...: 12/21/04 13:46 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	231	5.0	mg/L	SW846 6010B	12/27-12/29/04	G1QP71AE
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	30.7 J	5.0	mg/L	SW846 6010B	12/27-12/29/04	G1QP71AF
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	2.3	0.015	mg/L	SW846 6010B	12/27-12/29/04	G1QP71AG
		Dilution Factor: 1		MDL.....: 0.0012		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS007

General Chemistry

Lot-Sample #...: A4L230127-005 Work Order #...: G1QP7 Matrix.....: WG
Date Sampled...: 12/21/04 13:46 Date Received..: 12/23/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate	0.009 B	0.1	mg/L	MCAWW 365.2	12/23/04	4362173
		Dilution Factor: 1		MDL.....: 0.006		
Chemical Oxygen Demand (COD)	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1		MDL.....: 7.1		
Nitrate as N	ND	0.10	mg/L	MCAWW 300.0A	12/23/04	4362292
		Dilution Factor: 1		MDL.....: 0.016		
Nitrogen, as Ammonia	0.2	0.2	mg/L	MCAWW 350.3	12/28/04	4363594
		Dilution Factor: 1		MDL.....: 0.07		
Total Kjeldahl Nitrogen	ND	3	mg/L	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1		MDL.....: 2		
Total Organic Carbon	0.8 B	1	mg/L	MCAWW 415.1	12/30/04	4365241
		Dilution Factor: 1		MDL.....: 0.08		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

GC/MS Volatiles

Lot-Sample #...: A4L230127-006 Work Order #...: G1QP91CD Matrix.....: WG
Date Sampled...: 12/21/04 15:01 Date Received..: 12/23/04
Prep Date.....: 12/29/04 Analysis Date..: 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**4.0**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	**0.21 J**	**1.0**	**ug/L**	**0.16**
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	ND	1.0	ug/L	0.28
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	**1.9**	**1.0**	**ug/L**	**0.28**
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	**4.8**	**1.0**	**ug/L**	**0.19**
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
Toluene-d8	102	(76 - 110)
4-Bromofluorobenzene	94	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

GC/MS Volatiles

Lot-Sample #...: A4L230127-006 Work Order #...: G1QP91CD Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-006 **Work Order #...:** G1QP91CE **Matrix.....:** WG
Date Sampled...: 12/21/04 15:01 **Date Received..:** 12/23/04
Prep Date.....: 12/27/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4362022
Dilution Factor: 1 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	ND	10	ug/L	0.19
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**1.3 J,B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	ND	10	ug/L	0.13
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-006 Work Order #...: G1QP91CE Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	**4.5 J**	**10**	**ug/L**	**0.14**
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(32 - 112)
2-Fluorobiphenyl	59	(30 - 110)
Terphenyl-d14	71	(10 - 144)
Phenol-d5	58	(10 - 113)
2-Fluorophenol	58	(13 - 110)
2,4,6-Tribromophenol	58	(21 - 122)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-006 Work Order #...: G1QP91CE Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

TOTAL Metals

Lot-Sample #...: A4L230127-006 Matrix.....: WG
Date Sampled...: 12/21/04 15:01 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	159	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AT
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	48.3 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A0
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.5	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A1
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.053 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AM
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A8
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A9
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AN
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.19 B	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AP
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	0.026	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AA
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00078 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AQ
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AC
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	0.00061 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AR
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AU
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	0.0035 B	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AV
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

TOTAL Metals

Lot-Sample #...: A4L230127-006 **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AW
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**0.57**	**0.10**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP91AX**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	**0.0090 B**	**0.040**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP91A2**
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**9.5 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP91A3**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A4
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**84.7**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QP91A5**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A6
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QP91A7
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QP91AD
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

DISSOLVED Metals

Lot-Sample #...: A4L230127-006 Matrix.....: WG
Date Sampled...: 12/21/04 15:01 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	155	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AE
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	47.1 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AF
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.2	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QP91AG
		Dilution Factor: 1		MDL.....: 0.0012		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS008

General Chemistry

Lot-Sample #...: A4L230127-006 Work Order #...: G1QP9 Matrix.....: WG
Date Sampled...: 12/21/04 15:01 Date Received..: 12/23/04

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate	0.01 B	0.1	mg/L	MCAWW 365.2	12/23/04	4362173
		Dilution Factor: 1		MDL.....: 0.006		
Chemical Oxygen Demand (COD)	24.3	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1		MDL.....: 7.1		
Nitrate as N	1.0	0.10	mg/L	MCAWW 300.0A	12/23/04	4362292
		Dilution Factor: 1		MDL.....: 0.016		
Nitrogen, as Ammonia	0.1 B	0.2	mg/L	MCAWW 350.3	12/28/04	4363594
		Dilution Factor: 1		MDL.....: 0.07		
Total Kjeldahl Nitrogen	ND	3	mg/L	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1		MDL.....: 2		
Total Organic Carbon	4	1	mg/L	MCAWW 415.1	12/30/04	4365241
		Dilution Factor: 1		MDL.....: 0.08		

NOTE(S):

RL Reporting Limit

B Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

GC/MS Volatiles

Lot-Sample #...: A4L230127-007 **Work Order #...:** G1QQC1AH **Matrix.....:** WG
Date Sampled...: 12/21/04 13:07 **Date Received..:** 12/23/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365251
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	**0.87 J**	**1.0**	**ug/L**	**0.21**
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Bromomethane	ND	1.0	ug/L	0.36
Vinyl chloride	ND	1.0	ug/L	0.21
Chloroethane	ND	1.0	ug/L	0.24
Methylene chloride	ND	1.0	ug/L	0.19
Acetone	ND	10	ug/L	0.74
Carbon disulfide	**0.74 J**	**1.0**	**ug/L**	**0.28**
1,1-Dichloroethene	ND	1.0	ug/L	0.18
1,1-Dichloroethane	ND	1.0	ug/L	0.21
Chloroform	ND	1.0	ug/L	0.16
1,2-Dichloroethane	ND	1.0	ug/L	0.16
2-Butanone	ND	10	ug/L	0.39
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
Carbon tetrachloride	ND	1.0	ug/L	0.19
Bromodichloromethane	ND	1.0	ug/L	0.14
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
Trichloroethene	ND	1.0	ug/L	0.28
Dibromochloromethane	ND	1.0	ug/L	0.19
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Benzene	ND	1.0	ug/L	0.22
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Bromoform	ND	1.0	ug/L	0.17
4-Methyl-2-pentanone	ND	10	ug/L	0.32
2-Hexanone	ND	10	ug/L	0.35
Tetrachloroethene	ND	1.0	ug/L	0.19
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Toluene	ND	1.0	ug/L	0.17
Chlorobenzene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.19
Styrene	ND	1.0	ug/L	0.13
Xylenes (total)	ND	2.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	104	(76 - 110)
4-Bromofluorobenzene	89	(74 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

GC/MS Volatiles

Lot-Sample #...: A4L230127-007 Work Order #...: G1QQC1AH Matrix.....: WG

NOTE(S):

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-007 Work Order #...: G1QQC1AJ Matrix.....: WG
Date Sampled...: 12/21/04 13:07 Date Received..: 12/23/04
Prep Date.....: 12/27/04 Analysis Date..: 01/04/05
Prep Batch #...: 4362022
Dilution Factor: 1 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.028
Acenaphthylene	ND	10	ug/L	0.030
Acetophenone	**1.5 J**	**10**	**ug/L**	**0.19**
Anthracene	ND	10	ug/L	0.030
Atrazine	ND	10	ug/L	0.36
Benzo(a)anthracene	ND	10	ug/L	0.028
Benzo(a)pyrene	ND	10	ug/L	0.022
Benzo(b)fluoranthene	ND	10	ug/L	0.043
Benzo(ghi)perylene	ND	10	ug/L	0.044
Benzo(k)fluoranthene	ND	10	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.24
bis(2-Chloroethyl)-ether	ND	10	ug/L	0.19
bis(2-Ethylhexyl) phthalate	**24 B**	**10**	**ug/L**	**0.36**
4-Bromophenyl phenyl ether	ND	10	ug/L	0.29
Butyl benzyl phthalate	ND	10	ug/L	0.14
Caprolactam	**1.3 J**	**10**	**ug/L**	**0.73**
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	10	ug/L	0.31
4-Chloro-3-methylphenol	ND	10	ug/L	0.18
2-Chloronaphthalene	ND	10	ug/L	0.29
2-Chlorophenol	ND	10	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.21
Chrysene	ND	10	ug/L	0.035
Dibenz(a,h)anthracene	ND	10	ug/L	0.054
Dibenzofuran	ND	10	ug/L	0.025
3,3'-Dichlorobenzidine	ND	50	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	10	ug/L	0.12
2,4-Dimethylphenol	ND	10	ug/L	0.23
Dimethyl phthalate	ND	10	ug/L	0.27
Di-n-butyl phthalate	**1.8 J**	**10**	**ug/L**	**0.13**
4,6-Dinitro-2-methylphenol	ND	50	ug/L	1.8

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-007 Work Order #...: G1QQC1AJ Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2,4-Dinitrophenol	ND	50	ug/L	1.3
2,4-Dinitrotoluene	ND	10	ug/L	0.16
2,6-Dinitrotoluene	ND	10	ug/L	0.17
Di-n-octyl phthalate	ND	10	ug/L	0.16
Fluoranthene	ND	10	ug/L	0.024
Fluorene	ND	10	ug/L	0.035
Hexachlorobenzene	ND	10	ug/L	0.075
Hexachlorobutadiene	ND	10	ug/L	0.11
Hexachlorocyclopenta-diene	ND	50	ug/L	1.5
Hexachloroethane	ND	10	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.081
Isophorone	ND	10	ug/L	0.16
2-Methylnaphthalene	ND	10	ug/L	0.028
2-Methylphenol	ND	10	ug/L	0.15
4-Methylphenol	ND	10	ug/L	0.20
Naphthalene	ND	10	ug/L	0.031
2-Nitroaniline	ND	50	ug/L	0.18
3-Nitroaniline	ND	50	ug/L	0.094
4-Nitroaniline	ND	50	ug/L	0.11
Nitrobenzene	ND	10	ug/L	0.21
2-Nitrophenol	ND	10	ug/L	0.14
4-Nitrophenol	ND	50	ug/L	1.0
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	0.21
N-Nitrosodiphenylamine	ND	10	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	10	ug/L	0.21
Pentachlorophenol	ND	10	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.044
Phenol	**6.2 J**	**10**	**ug/L**	**0.14**
Pyrene	ND	10	ug/L	0.051
2,4,5-Trichloro-phenol	ND	10	ug/L	0.13
2,4,6-Trichloro-phenol	ND	10	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	89	(32 - 112)
2-Fluorobiphenyl	74	(30 - 110)
Terphenyl-d14	96	(10 - 144)
Phenol-d5	83	(10 - 113)
2-Fluorophenol	78	(13 - 110)
2,4,6-Tribromophenol	76	(21 - 122)

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

GC/MS Semivolatiles

Lot-Sample #...: A4L230127-007 Work Order #...: G1QQC1AJ Matrix.....: WG

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

TOTAL Metals

Lot-Sample #...: A4L230127-007 Matrix.....: WG
Date Sampled...: 12/21/04 13:07 Date Received..: 12/23/04

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4362038						
Calcium	129	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AQ
		Dilution Factor: 1		MDL.....: 0.33		
Magnesium	35.1 J	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AW
		Dilution Factor: 1		MDL.....: 0.024		
Manganese	1.7	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AX
		Dilution Factor: 1		MDL.....: 0.0012		
Aluminum	0.054 B,J	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AK
		Dilution Factor: 1		MDL.....: 0.023		
Arsenic	0.015	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A6
		Dilution Factor: 1		MDL.....: 0.0026		
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A7
		Dilution Factor: 1		MDL.....: 0.0017		
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AL
		Dilution Factor: 1		MDL.....: 0.0041		
Barium	0.33	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AM
		Dilution Factor: 1		MDL.....: 0.00075		
Selenium	0.0048 B	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AA
		Dilution Factor: 1		MDL.....: 0.0037		
Beryllium	0.00079 B,J	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AN
		Dilution Factor: 1		MDL.....: 0.00043		
Thallium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AC
		Dilution Factor: 1		MDL.....: 0.0045		
Cadmium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AP
		Dilution Factor: 1		MDL.....: 0.00028		
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AR
		Dilution Factor: 1		MDL.....: 0.0019		
Cobalt	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AT
		Dilution Factor: 1		MDL.....: 0.00096		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: GW122104DS013

TOTAL Metals

Lot-Sample #...: A4L230127-007 **Matrix.....:** WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1AU
		Dilution Factor: 1		MDL.....: 0.0023		
Iron	**17.5**	**0.10**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QQC1AV**
		Dilution Factor: 1		MDL.....: 0.049		
Nickel	ND	0.040	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A0
		Dilution Factor: 1		MDL.....: 0.0025		
Potassium	**7.7 J**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QQC1A1**
		Dilution Factor: 1		MDL.....: 0.063		
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A2
		Dilution Factor: 1		MDL.....: 0.00074		
Sodium	**43.5**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1QQC1A3**
		Dilution Factor: 1		MDL.....: 0.54		
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A4
		Dilution Factor: 1		MDL.....: 0.00071		
Zinc	ND	0.020	mg/L	SW846 6010B	12/27-12/28/04	G1QQC1A5
		Dilution Factor: 1		MDL.....: 0.014		
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1QQC1AD
		Dilution Factor: 1		MDL.....: 0.000029		

NOTE(S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

B Estimated result. Result is less than RL.

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L230127 **Work Order #...:** G10731AA **Matrix.....:** WATER
MB Lot-Sample #: A4L300000-190

Prep Date.....: 12/29/04
Analysis Date..: 12/29/04 **Prep Batch #...:** 4365190
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	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
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L230127 **Work Order #...:** G10731AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L230127 **Work Order #...:** G11JL1AA **Matrix.....:** WATER
MB Lot-Sample #: A4L300000-251

Prep Date.....: 12/29/04
Analysis Date..: 12/29/04 **Prep Batch #...:** 4365251
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	1.0	ug/L	SW846 8260B
Acetone	ND	10	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	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
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	10	ug/L	SW846 8260B
2-Hexanone	ND	10	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	2.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	102	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L230127 **Work Order #...:** G11JL1AA **Matrix.....:** WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER
MB Lot-Sample #: A4L270000-021

Prep Date.....: 12/27/04
Analysis Date..: 01/04/05 **Prep Batch #...:** 4362021
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Atrazine	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	**0.91 J**	**10**	**ug/L**	**SW846 8270C**
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodi-n-propylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
2,4,5-Trichlorophenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichlorophenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	60	(32 - 112)
2-Fluorobiphenyl	53	(30 - 110)
Terphenyl-d14	72	(10 - 144)
Phenol-d5	55	(10 - 113)
2-Fluorophenol	48	(13 - 110)
2,4,6-Tribromophenol	50	(21 - 122)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7A1AA **Matrix.....:** WATER

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 #...: A4L230127 **Work Order #...:** G1Q7C1AA **Matrix.....:** WATER
MB Lot-Sample #: A4L270000-022

Prep Date.....: 12/27/04
Analysis Date..: 12/29/04 **Prep Batch #...:** 4362022
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Atrazine	ND	10	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl)-ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	**1.3 J**	**10**	**ug/L**	**SW846 8270C**
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	10	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L	SW846 8270C
Dimethyl phthalate	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7C1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	10	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L	SW846 8270C
Fluoranthene	ND	10	ug/L	SW846 8270C
Fluorene	ND	10	ug/L	SW846 8270C
Hexachlorobenzene	ND	10	ug/L	SW846 8270C
Hexachlorobutadiene	ND	10	ug/L	SW846 8270C
Hexachlorocyclopenta-diene	ND	50	ug/L	SW846 8270C
Hexachloroethane	ND	10	ug/L	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	SW846 8270C
Isophorone	ND	10	ug/L	SW846 8270C
2-Methylnaphthalene	ND	10	ug/L	SW846 8270C
2-Methylphenol	ND	10	ug/L	SW846 8270C
4-Methylphenol	ND	10	ug/L	SW846 8270C
Naphthalene	ND	10	ug/L	SW846 8270C
2-Nitroaniline	ND	50	ug/L	SW846 8270C
3-Nitroaniline	ND	50	ug/L	SW846 8270C
4-Nitroaniline	ND	50	ug/L	SW846 8270C
Nitrobenzene	ND	10	ug/L	SW846 8270C
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	10	ug/L	SW846 8270C
Pentachlorophenol	ND	10	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	10	ug/L	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	76	(32 - 112)
2-Fluorobiphenyl	63	(30 - 110)
Terphenyl-d14	82	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	65	(13 - 110)
2,4,6-Tribromophenol	58	(21 - 122)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7C1AA **Matrix.....:** WATER

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

TOTAL Metals

Client Lot #...: A4L230127 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L270000-038 **Prep Batch #...:** 4362038						
Calcium	ND	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AG
		Dilution Factor: 1				
Magnesium	**0.040 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AM**
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AN
		Dilution Factor: 1				
Aluminum	**0.051 B**	**0.20**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AA**
		Dilution Factor: 1				
Arsenic	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AW
		Dilution Factor: 1				
Antimony	ND	0.060	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AC
		Dilution Factor: 1				
Lead	ND	0.0030	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AX
		Dilution Factor: 1				
Barium	ND	0.20	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AD
		Dilution Factor: 1				
Selenium	ND	0.0050	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1A0
		Dilution Factor: 1				
Beryllium	**0.00064 B**	**0.0050**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AE**
		Dilution Factor: 1				
Thallium	**0.0075 B**	**0.010**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1A1**
		Dilution Factor: 1				
Cadmium	**0.00053 B**	**0.0050**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AF**
		Dilution Factor: 1				
Chromium	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AH
		Dilution Factor: 1				
Cobalt	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AJ
		Dilution Factor: 1				
Copper	ND	0.025	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AK
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L230127 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Iron	ND	0.10	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AL
		Dilution Factor: 1				
Nickel	ND	0.040	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AP
		Dilution Factor: 1				
Potassium	**0.17 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AQ**
		Dilution Factor: 1				
Silver	ND	0.010	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AR
		Dilution Factor: 1				
Sodium	ND	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AT
		Dilution Factor: 1				
Vanadium	ND	0.050	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1AU
		Dilution Factor: 1				
Zinc	**0.022**	**0.020**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1AV**
		Dilution Factor: 1				
Mercury	ND	0.00020	mg/L	SW846 7470A	12/27-12/28/04	G1Q7N1A2
		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 #...: A4L230127 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L270000-038 **Prep Batch #...:** 4362038						
Calcium	ND	5.0	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1CU
		Dilution Factor: 1				
Magnesium	**0.040 B**	**5.0**	**mg/L**	**SW846 6010B**	**12/27-12/28/04**	**G1Q7N1CV**
		Dilution Factor: 1				
Manganese	ND	0.015	mg/L	SW846 6010B	12/27-12/28/04	G1Q7N1CW
		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 #...: A4L230127 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #: G1V7X1AA		MB Lot-Sample #:	A4L280000-430	
	ND	10.0	mg/L	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1				
Nitrate as N		Work Order #: G1R4D1AA		MB Lot-Sample #:	A4L270000-292	
	ND	0.10	mg/L	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1				
Nitrogen, as Ammonia		Work Order #: G1WP81AA		MB Lot-Sample #:	A4L280000-594	
	ND	0.2	mg/L	MCAWW 350.3	12/28/04	4363594
		Dilution Factor: 1				
Phosphorus as orthophosphate		Work Order #: G1RMV1AA		MB Lot-Sample #:	A4L270000-173	
	ND	0.1	mg/L	MCAWW 365.2	12/23/04	4362173
		Dilution Factor: 1				
Total Kjeldahl Nitrogen		Work Order #: G13RW1AA		MB Lot-Sample #:	A5A030000-485	
	ND	3	mg/L	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1				
Total Organic Carbon		Work Order #: G11GE1AA		MB Lot-Sample #:	A4L300000-241	
	ND	1	mg/L	MCAWW 415.1	12/30/04	4365241
		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 #...: A4L230127 **Work Order #...:** G10731AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A4L300000-190 G10731AD-LCSD
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(63 - 130)**			**SW846 8260B**
	101	**(63 - 130)**	**0.82**	**(0-20)**	**SW846 8260B**
Trichloroethene	**98**	**(75 - 122)**			**SW846 8260B**
	97	**(75 - 122)**	**0.65**	**(0-20)**	**SW846 8260B**
Benzene	**99**	**(80 - 116)**			**SW846 8260B**
	97	**(80 - 116)**	**1.5**	**(0-20)**	**SW846 8260B**
Toluene	**96**	**(74 - 119)**			**SW846 8260B**
	94	**(74 - 119)**	**1.7**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**94**	**(76 - 117)**			**SW846 8260B**
	96	**(76 - 117)**	**1.1**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
	100	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
	100	(61 - 128)
Toluene-d8	99	(76 - 110)
	99	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)
	99	(74 - 116)

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 #...: A4L230127 **Work Order #...:** G11JL1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A4L300000-251 G11JL1AD-LCSD
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365251
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**101**	**(63 - 130)**			**SW846 8260B**
	105	**(63 - 130)**	**3.6**	**(0-20)**	**SW846 8260B**
Trichloroethene	**94**	**(75 - 122)**			**SW846 8260B**
	98	**(75 - 122)**	**3.8**	**(0-20)**	**SW846 8260B**
Benzene	**96**	**(80 - 116)**			**SW846 8260B**
	99	**(80 - 116)**	**3.1**	**(0-20)**	**SW846 8260B**
Toluene	**96**	**(74 - 119)**			**SW846 8260B**
	99	**(74 - 119)**	**3.1**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**95**	**(76 - 117)**			**SW846 8260B**
	96	**(76 - 117)**	**1.6**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(73 - 122)
	101	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
	89	(61 - 128)
Toluene-d8	104	(76 - 110)
	105	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)
	100	(74 - 116)

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 #...: A4L230127 **Work Order #...:** G1Q7A1AC **Matrix.....:** WATER
LCS Lot-Sample#: A4L270000-021
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**75**	**(39 - 118)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**56**	**(31 - 110)**	**SW846 8270C**
1,4-Dichlorobenzene	**46**	**(28 - 110)**	**SW846 8270C**
4-Chloro-3-methylphenol	**62**	**(29 - 124)**	**SW846 8270C**
2-Chlorophenol	**70**	**(19 - 124)**	**SW846 8270C**
2,4-Dinitrotoluene	**74**	**(47 - 131)**	**SW846 8270C**
4-Nitrophenol	**49**	**(19 - 144)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**83**	**(30 - 115)**	**SW846 8270C**
Pentachlorophenol	**38**	**(10 - 140)**	**SW846 8270C**
Phenol	**47**	**(10 - 131)**	**SW846 8270C**
Pyrene	**71**	**(46 - 130)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	81	(32 - 112)
2-Fluorobiphenyl	75	(30 - 110)
Terphenyl-d14	80	(10 - 144)
Phenol-d5	67	(10 - 113)
2-Fluorophenol	58	(13 - 110)
2,4,6-Tribromophenol	71	(21 - 122)

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 #...: A4L230127 Work Order #...: G1Q7C1AC-LCS Matrix.....: WATER
LCS Lot-Sample#: A4L270000-022 G1Q7C1AD-LCSD
Prep Date.....: 12/27/04 Analysis Date..: 12/29/04
Prep Batch #...: 4362022
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	68	(39 - 118)			SW846 8270C
	72	(39 - 118)	6.8	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	51	(31 - 110)			SW846 8270C
	55	(31 - 110)	6.6	(0-37)	SW846 8270C
1,4-Dichlorobenzene	55	(28 - 110)			SW846 8270C
	62	(28 - 110)	12	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	65	(29 - 124)			SW846 8270C
	66	(29 - 124)	0.57	(0-55)	SW846 8270C
2-Chlorophenol	66	(19 - 124)			SW846 8270C
	71	(19 - 124)	7.2	(0-43)	SW846 8270C
2,4-Dinitrotoluene	75	(47 - 131)			SW846 8270C
	78	(47 - 131)	4.5	(0-32)	SW846 8270C
4-Nitrophenol	64	(19 - 144)			SW846 8270C
	63	(19 - 144)	1.3	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl-amine	76	(30 - 115)			SW846 8270C
	85	(30 - 115)	11	(0-36)	SW846 8270C
Pentachlorophenol	67	(10 - 140)			SW846 8270C
	69	(10 - 140)	2.4	(0-56)	SW846 8270C
Phenol	64	(10 - 131)			SW846 8270C
	70	(10 - 131)	8.8	(0-43)	SW846 8270C
Pyrene	84	(46 - 130)			SW846 8270C
	84	(46 - 130)	0.91	(0-31)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	76	(32 - 112)
2-Fluorobiphenyl	64	(30 - 110)
	66	(30 - 110)
Terphenyl-d14	84	(10 - 144)
	82	(10 - 144)
Phenol-d5	67	(10 - 113)
	70	(10 - 113)
2-Fluorophenol	63	(13 - 110)
	70	(13 - 110)
2,4,6-Tribromophenol	67	(21 - 122)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1Q7C1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: A4L270000-022 G1Q7C1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	67	(21 - 122)

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 #...: A4L230127 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L270000-038 **Prep Batch #...:** 4362038					
Calcium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A8
Magnesium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CE
Manganese	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CF
Aluminum	97	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A3
Arsenic	91	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CN
Antimony	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A4
Lead	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CP
Barium	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A5
Selenium	99	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CQ
Beryllium	95	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A6
Thallium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CR
Cadmium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A7
Chromium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1A9
Cobalt	89	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1CA

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L230127 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Copper	96	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CC
		Dilution Factor: 1			
Iron	98	(77 - 127)	SW846 6010B	12/27-12/28/04	G1Q7N1CD
		Dilution Factor: 1			
Nickel	91	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CG
		Dilution Factor: 1			
Potassium	97	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CH
		Dilution Factor: 1			
Silver	101	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CJ
		Dilution Factor: 1			
Sodium	87	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CK
		Dilution Factor: 1			
Vanadium	88	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CL
		Dilution Factor: 1			
Zinc	95	(80 - 120)	SW846 6010B	12/27-12/28/04	G1Q7N1CM
		Dilution Factor: 1			
Mercury	106	(82 - 131)	SW846 7470A	12/27-12/28/04	G1Q7N1CT
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: A4L230127 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L270000-038 **Prep Batch #...:** 4362038					
Calcium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1D2
Magnesium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1D3
Manganese	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/27-12/28/04	G1Q7N1D4

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A4L230127 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#:G1V7X1AC-LCS/G1V7X1AD-LCSD LCS Lot-Sample#: A4L280000-430					
	97	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	94	(90 - 110)	2.6	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#:G1R4D1AC-LCS/G1R4D1AD-LCSD LCS Lot-Sample#: A4L270000-292					
	98	(90 - 110)			MCAWW 300.0A	12/22/04	4362292
	100	(90 - 110)	1.1	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					
Total Kjeldahl Nitrogen		WO#:G13RW1AC-LCS/G13RW1AD-LCSD LCS Lot-Sample#: A5A030000-485					
	88	(65 - 144)			MCAWW 351.3	01/03/05	5003485
	102	(65 - 144)	15	(0-20)	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L230127 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia		Work Order #: G1WP81AC	LCS Lot-Sample#: A4L280000-594		
	97	(85 - 114)	MCAWW 350.3	12/28/04	4363594
		Dilution Factor: 1			
Phosphorus as orthophosphate		Work Order #: G1RMV1AC	LCS Lot-Sample#: A4L270000-173		
	97	(89 - 115)	MCAWW 365.2	12/23/04	4362173
		Dilution Factor: 1			
Total Organic Carbon		Work Order #: G11GE1AC	LCS Lot-Sample#: A4L300000-241		
	108	(88 - 115)	MCAWW 415.1	12/30/04	4365241
		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 #...: A4L230127 **Work Order #...:** G1EPH1A1-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L170425-008 G1EPH1A2-MSD
Date Sampled...: 12/16/04 11:30 **Date Received..:** 12/17/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365190
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**126**	**(62 - 130)**			**SW846 8260B**
	118	**(62 - 130)**	**6.3**	**(0-20)**	**SW846 8260B**
Trichloroethene	**105**	**(62 - 130)**			**SW846 8260B**
	101	**(62 - 130)**	**4.0**	**(0-20)**	**SW846 8260B**
Benzene	**103**	**(78 - 118)**			**SW846 8260B**
	99	**(78 - 118)**	**4.1**	**(0-20)**	**SW846 8260B**
Toluene	**102**	**(70 - 119)**			**SW846 8260B**
	99	**(70 - 119)**	**3.4**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**98**	**(76 - 117)**			**SW846 8260B**
	97	**(76 - 117)**	**1.1**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(73 - 122)
	98	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
	96	(61 - 128)
Toluene-d8	105	(76 - 110)
	103	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)
	94	(74 - 116)

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 #...: A4L230127 **Work Order #...:** G1KJL1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L210138-001 G1KJL1AD-MSD
Date Sampled...: 12/20/04 09:20 **Date Received..:** 12/21/04
Prep Date.....: 12/29/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4365251
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**103**	**(62 - 130)**			**SW846 8260B**
	107	**(62 - 130)**	**3.4**	**(0-20)**	**SW846 8260B**
Trichloroethene	**90**	**(62 - 130)**			**SW846 8260B**
	98	**(62 - 130)**	**7.7**	**(0-20)**	**SW846 8260B**
Benzene	**97**	**(78 - 118)**			**SW846 8260B**
	107	**(78 - 118)**	**9.4**	**(0-20)**	**SW846 8260B**
Toluene	**94**	**(70 - 119)**			**SW846 8260B**
	104	**(70 - 119)**	**10**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**91**	**(76 - 117)**			**SW846 8260B**
	102	**(76 - 117)**	**11**	**(0-20)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(73 - 122)
	105	(73 - 122)
1,2-Dichloroethane-d4	95	(61 - 128)
	96	(61 - 128)
Toluene-d8	106	(76 - 110)
	106	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)
	101	(74 - 116)

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 #...: A4L230127 **Work Order #...:** G1M101A8-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L220154-009 G1M101A9-MSD
Date Sampled...: 12/21/04 12:15 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/06/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	69	(26 - 118)			SW846 8270C
	62	(26 - 118)	10	(0-35)	SW846 8270C
1,2,4-Trichloro-benzene	53	(22 - 110)			SW846 8270C
	46	(22 - 110)	14	(0-37)	SW846 8270C
1,4-Dichlorobenzene	58	(18 - 110)			SW846 8270C
	51	(18 - 110)	14	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	72	(21 - 124)			SW846 8270C
	67	(21 - 124)	6.9	(0-55)	SW846 8270C
2-Chlorophenol	65	(19 - 124)			SW846 8270C
	59	(19 - 124)	8.5	(0-43)	SW846 8270C
2,4-Dinitrotoluene	81	(31 - 131)			SW846 8270C
	79	(31 - 131)	2.0	(0-32)	SW846 8270C
4-Nitrophenol	67	(10 - 145)			SW846 8270C
	65	(10 - 145)	2.8	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl-amine	75	(18 - 115)			SW846 8270C
	67	(18 - 115)	11	(0-36)	SW846 8270C
Pentachlorophenol	80	(10 - 140)			SW846 8270C
	78	(10 - 140)	1.6	(0-56)	SW846 8270C
Phenol	65	(10 - 131)			SW846 8270C
	60	(10 - 131)	6.8	(0-43)	SW846 8270C
Pyrene	76	(27 - 138)			SW846 8270C
	74	(27 - 138)	2.2	(0-31)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	65	(32 - 112)
2-Fluorobiphenyl	64	(30 - 110)
	59	(30 - 110)
Terphenyl-d14	77	(10 - 144)
	74	(10 - 144)
Phenol-d5	65	(10 - 113)
	61	(10 - 113)
2-Fluorophenol	64	(13 - 110)
	60	(13 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L230127 **Work Order #...:** G1M101A8-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L220154-009 G1M101A9-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	78	(21 - 122)
	74	(21 - 122)

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 #...: A4L230127 **Work Order #...:** G1NCP1D2-MS **Matrix.....:** WATER
MS Lot-Sample #: A4L220190-002 G1NCP1D3-MSD
Date Sampled...: 12/21/04 09:25 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362021
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**67**	**(26 - 118)**			**SW846 8270C**
	65	**(26 - 118)**	**1.8**	**(0-35)**	**SW846 8270C**
4-Chloro-3-methylphenol	**62**	**(21 - 124)**			**SW846 8270C**
	72	**(21 - 124)**	**15**	**(0-55)**	**SW846 8270C**
2-Chlorophenol	**66**	**(19 - 124)**			**SW846 8270C**
	52	**(19 - 124)**	**25**	**(0-43)**	**SW846 8270C**
2,4-Dinitrotoluene	**70**	**(31 - 131)**			**SW846 8270C**
	62	**(31 - 131)**	**12**	**(0-32)**	**SW846 8270C**
4-Nitrophenol	**71**	**(10 - 145)**			**SW846 8270C**
	63	**(10 - 145)**	**11**	**(0-34)**	**SW846 8270C**
N-Nitrosodi-n-propyl- amine	**75**	**(18 - 115)**			**SW846 8270C**
	75	**(18 - 115)**	**0.51**	**(0-36)**	**SW846 8270C**
Pentachlorophenol	**53**	**(10 - 140)**			**SW846 8270C**
	44	**(10 - 140)**	**18**	**(0-56)**	**SW846 8270C**
Phenol	**61**	**(10 - 131)**			**SW846 8270C**
	61	**(10 - 131)**	**0.83**	**(0-43)**	**SW846 8270C**
Pyrene	**72**	**(27 - 138)**			**SW846 8270C**
	71	**(27 - 138)**	**2.3**	**(0-31)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	72	(32 - 112)
	81	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
	62	(30 - 110)
Terphenyl-d14	82	(10 - 144)
	80	(10 - 144)
Phenol-d5	63	(10 - 113)
	55	(10 - 113)
2-Fluorophenol	47	(13 - 110)
	44	(13 - 110)
2,4,6-Tribromophenol	74	(21 - 122)
	62	(21 - 122)

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 #...: A4L230127 **Matrix.....:** WG
Date Sampled...: 12/21/04 11:45 **Date Received..:** 12/23/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L230127-001 **Prep Batch #...:** 4362038							
Calcium	NC,MSB	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CR
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CT
		Dilution Factor: 1					
Magnesium	75	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1C4
	79	(75 - 125)	2.1	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1C5
		Dilution Factor: 1					
Manganese	44 N	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1C6
	53 N	(75 - 125)	2.6	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1C7
		Dilution Factor: 1					
Aluminum	97	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CF
	97	(75 - 125)	0.10	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CG
		Dilution Factor: 1					
Arsenic	92	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DM
	93	(75 - 125)	0.50	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DN
		Dilution Factor: 1					
Antimony	96	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CH
	96	(75 - 125)	0.08	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CJ
		Dilution Factor: 1					
Lead	89	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DP
	90	(75 - 125)	0.30	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DQ
		Dilution Factor: 1					
Barium	93	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CK
	93	(75 - 125)	0.33	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CL
		Dilution Factor: 1					
Selenium	97	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DR
	97	(75 - 125)	0.03	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DT
		Dilution Factor: 1					
Beryllium	91	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CM
	92	(75 - 125)	0.48	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CN
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L230127 **Matrix.....:** WG
Date Sampled...: 12/21/04 11:45 **Date Received..:** 12/23/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Thallium	92	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DU
	92	(75 - 125)	0.70	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DV
		Dilution Factor: 1					
Cadmium	88	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CP
	89	(75 - 125)	1.1	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CQ
		Dilution Factor: 1					
Chromium	88	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CU
	88	(75 - 125)	0.65	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CV
		Dilution Factor: 1					
Cobalt	86	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1CW
	87	(75 - 125)	0.50	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1CX
		Dilution Factor: 1					
Copper	98	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1C0
	98	(75 - 125)	0.09	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1C1
		Dilution Factor: 1					
Iron	92	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1C2
	92	(75 - 125)	0.25	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1C3
		Dilution Factor: 1					
Nickel	89	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1C8
	89	(75 - 125)	0.46	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1C9
		Dilution Factor: 1					
Potassium	99	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DA
	99	(75 - 125)	0.65	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DC
		Dilution Factor: 1					
Silver	104	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DD
	105	(75 - 125)	0.71	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DE
		Dilution Factor: 1					
Sodium	78	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DF
	80	(75 - 125)	1.4	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DG
		Dilution Factor: 1					
Vanadium	87	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DH
	88	(75 - 125)	0.69	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DJ
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L230127 **Matrix.....:** WG
Date Sampled...: 12/21/04 11:45 **Date Received..:** 12/23/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	95	(75 - 125)			SW846 6010B	12/27-12/28/04	G1QPP1DK
	95	(75 - 125)	0.72	(0-20)	SW846 6010B	12/27-12/28/04	G1QPP1DL
		Dilution Factor: 1					
Mercury	104	(68 - 149)			SW846 7470A	12/27-12/28/04	G1QPP1DW
	109	(68 - 149)	4.3	(0-20)	SW846 7470A	12/27-12/28/04	G1QPP1DX
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L230127 **Matrix.....:** WG
Date Sampled...: 12/21/04 15:01 **Date Received..:** 12/23/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphorus as orthophosphate		WO#: G1QP91CF-MS/G1QP91CG-MSD				MS Lot-Sample #: A4L230127-006	
	92	(56 - 139)			MCAWW 365.2	12/23/04	4362173
	93	(56 - 139)	1.7	(0-20)	MCAWW 365.2	12/23/04	4362173
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L230127 **Matrix.....:** WATER
Date Sampled...: 12/08/04 **Date Received..:** 12/10/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		WO#: G1FV81AM-MS/G1FV81AN-MSD				MS Lot-Sample #:	A4L180161-002
	93	(90 - 110)			MCAWW 410.4	12/28/04	4363430
	96	(90 - 110)	2.8	(0-20)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1					
Nitrate as N		WO#: G1KJL1AJ-MS/G1KJL1AK-MSD				MS Lot-Sample #:	A4L210138-001
	108	(80 - 120)			MCAWW 300.0A	12/22/04	4362292
	107	(80 - 120)	0.70	(0-20)	MCAWW 300.0A	12/22/04	4362292
		Dilution Factor: 1					
Nitrogen, as Ammonia		WO#: G059H1CN-MS/G059H1CP-MSD				MS Lot-Sample #:	A4L150376-007
	99	(63 - 126)			MCAWW 350.3	12/28/04	4363594
	99	(63 - 126)	0.40	(0-29)	MCAWW 350.3	12/28/04	4363594
		Dilution Factor: 1					
Total Kjeldahl Nitrogen		WO#: G0Q371AT-MS/G0Q371AU-MSD				MS Lot-Sample #:	C4L100258-020
	0.0 N	(10 - 200)			MCAWW 351.3	01/03/05	5003485
	0.0 N	(10 - 200)	0.0	(0-20)	MCAWW 351.3	01/03/05	5003485
		Dilution Factor: 1					
Total Organic Carbon		WO#: G08F31CA-MS/G08F31CC-MSD				MS Lot-Sample #:	A4L160271-005
	101	(72 - 136)			MCAWW 415.1	12/30/04	4365241
	102	(72 - 136)	1.0	(0-20)	MCAWW 415.1	12/30/04	4365241
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L230127 **Matrix.....:** WATER
Date Sampled...: 12/20/04 08:00 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Chemical Oxygen Demand (COD)		Work Order #...: G1KXH1AJ		MS Lot-Sample #:	A4L210176-002
	95	(90 - 110)	MCAWW 410.4	12/28/04	4363430
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

SHIPPED TO (Laboratory Name): STL North Canton

98

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM-FAIRFAX

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: David Kendrick **PRINTED NAME:** DAVID KENDRICK

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TOC	TLC VOC	Dissolved metals	Total metals	COD	TKN + Ammonia	SVOC	Cyanide	Extra plastic 903	REMARKS
	12/21/04	1145	GW 122104 DS 006	W	13	3	3	1	1	1	1	2	1		CALL PAT Klick with Questions
		1020	012		7		3	1	1			2			
		—	Dup		7		3	1	1			2			
		—	010 TRIP		1		3								
	FEDEX														Batch complete SSOW #095001

TOTAL NUMBER OF CONTAINERS 28

RELINQUISHED BY: ① David Kendrick	DATE: 12/21/04 TIME: 1630	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FEDX **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: SHIELD, Kendrick, Cantrell

RECEIVED FOR LABORATORY BY: Shahid Naveed 12320
DATE: 12/23/04 TIME: 12:20

1001-00(SOURCE)GN-CO004

STL North Canton

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

SHIPPED TO (Laboratory Name): STL-Ohio

99

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM - FAIRFAX

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: David Kendrick **PRINTED NAME:** Dave Kendrick

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TCL	TCL VOC	Dissolved metals	Total metals	COD	TKN, Ammonia	SVOC	Ortho-phosphates	REMARKS
	12/21/04	1346	GW122104DS007	W	13	3	3	1	1	1	1	2	1	
		1501	008	W	13	3	3	1	1	1	1	2	1	CALL PAT Kind w/Questions
	↓	1367	013	W	7		3	1	1			2		Batch complete SSOW # 09S001

TOTAL NUMBER OF CONTAINERS 33

RELINQUISHED BY: ① David Kendrick	DATE: 12/21/04 TIME: 1630	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: FED EX **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: DEK, DK, CC
SITFIELD, Kendrick, CANTRELL

RECEIVED FOR LABORATORY BY: Shahid Naveed
DATE: 12/23/04 TIME: 12:20

12323

1001-00(SOURCE)GN-CO004

STL North Canton

STL Cooler Receipt Form/Narrative **Lot Number:** 44L230127

North Canton Facility

Client: CRA Project: Quote#: 62183

Cooler Received on: 12/23/04 Opened on: 12/23/04 by: Shahid Naveed (Signature)

Fedx ☑ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other:

STL Cooler No# See back Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler? Yes ☑ No ☐ Intact? Yes ☑ No ☐ NA ☐
   If YES, Quantity
   Were the custody seals signed and dated? Yes ☐ No ☐ NA ☐
2. Shipper's packing slip attached to this form? Yes ☑ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☑ No ☐ Relinquished by client? Yes ☑ No ☐
4. Did you sign the custody papers in the appropriate place? Yes ☑ No ☐
5. Packing material used: Bubble Wrap ☑ Foam ☑ None ☐ Other :
6. Cooler temperature upon receipt See back °C (see back of form for multiple coolers/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☑ ICE/H_2O Slurry ☐

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 and/or tags be reconciled with the COC? Yes ☑ No ☐
9. Were samples at the correct pH? (record below/on back) Yes ☑ No ☐ NA ☐
10. Were correct bottles used for the tests 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 ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

√	

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 101104HNO3; Sulfuric Acid Lot # 102804-H2SO4; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials
DS 006	<2 <2	12-23-04	AM
012	<2 <2		
DUP	<2 <2		
DS 007	<2 <2 <2 <2		
008	<2 <2 <2 <2		

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials
DS013	<2|2	12-23-04	AM

Cooler	Temp	Method	Coolant
K325	1.9°C	IR	Wet Ice
K577	2.2°C		

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

SEVERN TRENT STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 12559-52

GM FAIRFAX

Lot #: A4L210179

Phil Harvey

Conestoga-Rovers & Associates
8615 W. Bryn Mawr
Chicago, IL 60631

SEVERN TRENT LABORATORIES, INC.

VALIDATED DATA
Project # 12559-52
Lot # A4L210179
Date 02/01/05

Amy L. McCormick
Project Manager

January 13, 2005

CASE NARRATIVE

A4L210179

The following report contains the analytical results for seventeen solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Fairfax Site, project number 12559-52. The samples were received December 21, 2004, according to documented sample acceptance procedures.

STL 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 Susan Scrocchi on January 05, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL'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.

If you have any questions, please call the Project Manager, Amy L. McCormick, 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 3.4 and 3.9°C.

CASE NARRATIVE (continued)

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.

Surrogate recoveries were outside criteria for sample(s) S-122004-DS-106. Due to insufficient sample volume, re-preparation and reanalysis could not occur.

GC/MS SEMIVOLATILES

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.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

Serial dilution of a sample in this lot indicates that physical and chemical interferences were present. Refer to the sample report pages for the affected analytes flagged with "E".

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).

Matrix spike recovery and relative percent difference (RPD) data were not calculated for some analytes for batch(s) 4363035 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".

The matrix spike/matrix spike duplicate(s) for batch(es) 4363035 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.

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of 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 analytes(s).

The Total Kjeldahl Nitrogen matrix spike/matrix spike duplicate(s) for S-122004-DS-101 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.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton 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.

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. STL 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. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. 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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP only*

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

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 may 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. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) 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.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are 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 the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

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/PCB and PAH methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-101 12/20/04 11:24 001				
Acetone	15 J	25	ug/kg	SW846 8260B
Benzene	24	6.3	ug/kg	SW846 8260B
4-Methyl-2-pentanone	9.0 J	25	ug/kg	SW846 8260B
Toluene	5.9 J	6.3	ug/kg	SW846 8260B
Ethylbenzene	5.7 J	6.3	ug/kg	SW846 8260B
Xylenes (total)	11 J	13	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	260	200	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	5.5	2.7	mg/kg	MCAWW 350.3
pH (solid)	7.3		No Units	SW846 9045C
Percent Solids	74.9	10.0	%	MCAWW 160.3 MOD
S-122004-DS-102 12/20/04 11:35 002				
Acetone	650000	2400000	ug/kg	SW846 8260B
	Qualifiers: J,B			
Ethylbenzene	2100000	610000	ug/kg	SW846 8260B
4-Methyl-2-pentanone	1700000 J	2400000	ug/kg	SW846 8260B
Toluene	18000000	610000	ug/kg	SW846 8260B
	Qualifiers: B			
Xylenes (total)	12000000	1200000	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	960	210	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.1 B,J	1.4	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	13	2.8	mg/kg	MCAWW 350.3
pH (solid)	6.2		No Units	SW846 9045C
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD
S-122004-DS-103 12/20/04 11:58 003				
Benzene	270 J	5800	ug/kg	SW846 8260B
Ethylbenzene	13000	5800	ug/kg	SW846 8260B
Toluene	890 J,B	5800	ug/kg	SW846 8260B
Xylenes (total)	250000	12000	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	540	190	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	14	2.6	mg/kg	MCAWW 350.3
pH (solid)	7.1		No Units	SW846 9045C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-103 12/20/04 11:58 003				
Percent Solids	77.1	10.0	%	MCAWW 160.3 MOD
S-122004-DS-104 12/20/04 12:05 004				
Benzene	7900 J	130000	ug/kg	SW846 8260B
Ethylbenzene	2000000	130000	ug/kg	SW846 8260B
Toluene	4100000 B	130000	ug/kg	SW846 8260B
Xylenes (total)	10000000	250000	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	250	170	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.1	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	3.1	2.2	mg/kg	MCAWW 350.3
pH (solid)	7.0		No Units	SW846 9045C
Percent Solids	90.9	10.0	%	MCAWW 160.3 MOD
S-122004-DS-105 12/20/04 13:20 005				
Acetone	16 J	23	ug/kg	SW846 8260B
Benzene	0.56 J	5.7	ug/kg	SW846 8260B
2-Butanone	2.5 J	23	ug/kg	SW846 8260B
Ethylbenzene	2.2 J	5.7	ug/kg	SW846 8260B
Toluene	1.7 J	5.7	ug/kg	SW846 8260B
Xylenes (total)	1.8 J	11	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	130 B	180	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.2	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	2.9	2.4	mg/kg	MCAWW 350.3
pH (solid)	7.9		No Units	SW846 9045C
Percent Solids	84.5	10.0	%	MCAWW 160.3 MOD
S-122004-DS-106 12/20/04 13:29 006				
Benzene	86 J	300	ug/kg	SW846 8260B
Ethylbenzene	130 J	300	ug/kg	SW846 8260B
Toluene	430 B	300	ug/kg	SW846 8260B
Xylenes (total)	4300	590	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	1200	190	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2
Nitrate as N	0.22 B	6.3	mg/kg	MCAWW 300.0A

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-106 12/20/04 13:29 006				
Nitrogen, as Ammonia	14	2.5	mg/kg	MCAWW 350.3
pH (solid)	7.5		No Units	SW846 9045C
Percent Solids	79.4	10.0	%	MCAWW 160.3 MOD
S-122004-DS-107 12/20/04 13:55 007				
Ethylbenzene	540000	32000	ug/kg	SW846 8260B
Toluene	630000 B	32000	ug/kg	SW846 8260B
Xylenes (total)	3200000	64000	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	350	210	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.4 B,J	1.4	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	7.0	2.8	mg/kg	MCAWW 350.3
pH (solid)	7.8		No Units	SW846 9045C
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD
S-122004-DS-108 12/20/04 14:02 008				
Acetone	280000	2500000	ug/kg	SW846 8260B
	Qualifiers: J,B			
Ethylbenzene	4800000	620000	ug/kg	SW846 8260B
Toluene	21000000	620000	ug/kg	SW846 8260B
	Qualifiers: B			
Xylenes (total)	24000000	1200000	ug/kg	SW846 8260B
Phosphate as P, Ortho	0.3 B,J	1.3	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	7.7	2.7	mg/kg	MCAWW 350.3
pH (solid)	8.0		No Units	SW846 9045C
Percent Solids	74.4	10.0	%	MCAWW 160.3 MOD
S-122004-DS-109 12/20/04 14:35 009				
Ethylbenzene	26000	2800	ug/kg	SW846 8260B
Toluene	3700 B	2800	ug/kg	SW846 8260B
Xylenes (total)	230000	5600	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	450	190	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.3 B,J	1.2	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	11	2.5	mg/kg	MCAWW 350.3
pH (solid)	7.8		No Units	SW846 9045C
Percent Solids	80.4	10.0	%	MCAWW 160.3 MOD

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-110 12/20/04 14:41 010				
Acetone	120000	710000	ug/kg	SW846 8260B
	Qualifiers: J,B			
Ethylbenzene	1500000	180000	ug/kg	SW846 8260B
Toluene	5000000 B	180000	ug/kg	SW846 8260B
Xylenes (total)	7900000	360000	ug/kg	SW846 8260B
Total Kjeldahl Nitrogen	98 B	180	mg/kg	MCAWW 351.3
Phosphate as P, Ortho	0.2 B,J	1.2	mg/kg	MCAWW 365.2
Nitrogen, as Ammonia	2.3	2.3	mg/kg	MCAWW 350.3
pH (solid)	8.0		No Units	SW846 9045C
Percent Solids	85.1	10.0	%	MCAWW 160.3 MOD
S-122004-DS-111 12/20/04 15:23 011				
Acetone	7.1 J	23	ug/kg	SW846 8260B
Toluene	2.8 J	5.7	ug/kg	SW846 8260B
Fraction of Organic Carbon (Ash)	3.6	0.13	%	ASTM D2974
Percent Solids	75.3	10.0	%	MCAWW 160.3 MOD
S-122004-DS-112 12/20/04 15:33 012				
Acetone	130 J,B	1200	ug/kg	SW846 8260B
Ethylbenzene	130 J	310	ug/kg	SW846 8260B
Toluene	300 J,B	310	ug/kg	SW846 8260B
Xylenes (total)	670	610	ug/kg	SW846 8260B
Fraction of Organic Carbon (Ash)	3.6	0.12	%	ASTM D2974
Percent Solids	81.7	10.0	%	MCAWW 160.3 MOD
S-122004-DS-113 12/20/04 16:01 013				
Toluene	1.4 J	5.7	ug/kg	SW846 8260B
Fraction of Organic Carbon (Ash)	1.7	0.12	%	ASTM D2974
Percent Solids	80.9	10.0	%	MCAWW 160.3 MOD
S-122004-DS-114 12/20/04 16:12 014				
Acetone	9.1 J	24	ug/kg	SW846 8260B
Toluene	10	6.1	ug/kg	SW846 8260B
Ethylbenzene	3.3 J	6.1	ug/kg	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-114 12/20/04 16:12 014				
Xylenes (total)	18	12	ug/kg	SW846 8260B
Fraction of Organic Carbon (Ash)	2.7	0.13	%	ASTM D2974
Percent Solids	77.2	10.0	%	MCAWW 160.3 MOD
S-122004-DS-115 12/20/04 16:39 015				
Mercury	0.013 B	0.12	mg/kg	SW846 7471A
Arsenic	5.3	1.2	mg/kg	SW846 6010B
Lead	9.0	0.35	mg/kg	SW846 6010B
Selenium	0.43 B	0.59	mg/kg	SW846 6010B
Aluminum	5660	23.4	mg/kg	SW846 6010B
Antimony	0.39 B,J	7.0	mg/kg	SW846 6010B
Barium	183	23.4	mg/kg	SW846 6010B
Beryllium	0.17 B	0.59	mg/kg	SW846 6010B
Cadmium	0.20 B	0.59	mg/kg	SW846 6010B
Calcium	13000	585	mg/kg	SW846 6010B
Chromium	10.3	1.2	mg/kg	SW846 6010B
Cobalt	4.8 B	5.9	mg/kg	SW846 6010B
Copper	11.8	2.9	mg/kg	SW846 6010B
Iron	9460 J	11.7	mg/kg	SW846 6010B
Magnesium	3810	585	mg/kg	SW846 6010B
Manganese	247	1.8	mg/kg	SW846 6010B
Nickel	12.4	4.7	mg/kg	SW846 6010B
Potassium	1160	585	mg/kg	SW846 6010B
Sodium	267 B	585	mg/kg	SW846 6010B
Vanadium	16.6	5.9	mg/kg	SW846 6010B
Zinc	38.5	2.3	mg/kg	SW846 6010B
Toluene	2.5 J	4.6	ug/kg	SW846 8260B
Xylenes (total)	8.1 J	9.1	ug/kg	SW846 8260B
Percent Solids	85.4	10.0	%	MCAWW 160.3 MOD
S-122004-DS-116 12/20/04 17:15 016				
Mercury	0.0099 B	0.14	mg/kg	SW846 7471A
Arsenic	3.9	1.4	mg/kg	SW846 6010B
Lead	9.3	0.41	mg/kg	SW846 6010B
Aluminum	5690	27.3	mg/kg	SW846 6010B
Antimony	0.51 B,J	8.2	mg/kg	SW846 6010B
Barium	205	27.3	mg/kg	SW846 6010B
Beryllium	0.14 B	0.68	mg/kg	SW846 6010B
Cadmium	0.15 B	0.68	mg/kg	SW846 6010B
Calcium	21200	681	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-116 12/20/04 17:15 016				
Chromium	10.7	1.4	mg/kg	SW846 6010B
Cobalt	6.7 B	6.8	mg/kg	SW846 6010B
Copper	12.3	3.4	mg/kg	SW846 6010B
Iron	12900 J	13.6	mg/kg	SW846 6010B
Magnesium	8270	681	mg/kg	SW846 6010B
Manganese	274	2.0	mg/kg	SW846 6010B
Nickel	16.9	5.5	mg/kg	SW846 6010B
Potassium	1530	681	mg/kg	SW846 6010B
Sodium	121 B	681	mg/kg	SW846 6010B
Vanadium	18.8	6.8	mg/kg	SW846 6010B
Zinc	47.7	2.7	mg/kg	SW846 6010B
Acetone	9.2 J	26	ug/kg	SW846 8260B
Percent Solids	73.4	10.0	%	MCAWW 160.3 MOD
S-122004-DS-117 12/20/04 17:35 017				
Mercury	0.016 B	0.14	mg/kg	SW846 7471A
Arsenic	4.6	1.4	mg/kg	SW846 6010B
Lead	10.5 E	0.41	mg/kg	SW846 6010B
Aluminum	7340	27.6	mg/kg	SW846 6010B
Antimony	0.69 B,J	8.3	mg/kg	SW846 6010B
Barium	208	27.6	mg/kg	SW846 6010B
Beryllium	0.21 B,E	0.69	mg/kg	SW846 6010B
Cadmium	0.19 B	0.69	mg/kg	SW846 6010B
Calcium	20200	689	mg/kg	SW846 6010B
Chromium	12.3	1.4	mg/kg	SW846 6010B
Cobalt	6.8 B	6.9	mg/kg	SW846 6010B
Copper	18.2	3.4	mg/kg	SW846 6010B
Iron	12200 J	13.8	mg/kg	SW846 6010B
Magnesium	7500	689	mg/kg	SW846 6010B
Manganese	277	2.1	mg/kg	SW846 6010B
Nickel	17.0	5.5	mg/kg	SW846 6010B
Potassium	2110	689	mg/kg	SW846 6010B
Sodium	176 B	689	mg/kg	SW846 6010B
Vanadium	19.6	6.9	mg/kg	SW846 6010B
Zinc	51.5 E	2.8	mg/kg	SW846 6010B
bis(2-Ethylhexyl) phthalate	51 J	450	ug/kg	SW846 8270C
Caprolactam	50 J,B	450	ug/kg	SW846 8270C
2,4-Dimethylphenol	48 J	450	ug/kg	SW846 8270C
Tetrachloroethene	190	6.3	ug/kg	SW846 8260B
Toluene	0.91 J	6.3	ug/kg	SW846 8260B
Trichloroethene	1.0 J	6.3	ug/kg	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L210179

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122004-DS-117 12/20/04 17:35 017				
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A4L210179

PARAMETER	ANALYTICAL METHOD
ortho-Phosphate	MCAWW 365.2
Ammonia Nitrogen	MCAWW 350.3
Fraction of Organic Carbo	ASTM D2974
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Solid Waste (Manual Cold-Vapor)	SW846 7471A
Nitrate as N	MCAWW 300.0A
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Soil and Waste pH	SW846 9045C
Total Kjeldahl Nitrogen	MCAWW 351.3
Total Residue as Percent Solids	MCAWW 160.3 MOD
Trace Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Volatile Organics by GC/MS	SW846 8260B

References:

ASTM Annual Book Of ASTM Standards.

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

A4L210179

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1KXP	001	S-122004-DS-101	12/20/04	11:24
G1KX1	002	S-122004-DS-102	12/20/04	11:35
G1KX2	003	S-122004-DS-103	12/20/04	11:58
G1KX3	004	S-122004-DS-104	12/20/04	12:05
G1KX8	005	S-122004-DS-105	12/20/04	13:20
G1K0K	006	S-122004-DS-106	12/20/04	13:29
G1K0L	007	S-122004-DS-107	12/20/04	13:55
G1K0M	008	S-122004-DS-108	12/20/04	14:02
G1K0P	009	S-122004-DS-109	12/20/04	14:35
G1K0Q	010	S-122004-DS-110	12/20/04	14:41
G1K0T	011	S-122004-DS-111	12/20/04	15:23
G1K02	012	S-122004-DS-112	12/20/04	15:33
G1K04	013	S-122004-DS-113	12/20/04	16:01
G1K06	014	S-122004-DS-114	12/20/04	16:12
G1K09	015	S-122004-DS-115	12/20/04	16:39
G1K1D	016	S-122004-DS-116	12/20/04	17:15
G1K1F	017	S-122004-DS-117	12/20/04	17:35

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-101

GC/MS Volatiles

Lot-Sample #...: A4L210179-001 **Work Order #...:** G1KXP1AF **Matrix.....:** SO
Date Sampled...: 12/20/04 11:24 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.94
% Moisture.....: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	6.3	ug/kg	1.1
trans-1,2-Dichloroethene	ND	6.3	ug/kg	0.95
Chloromethane	ND	6.3	ug/kg	2.3
Bromomethane	ND	6.3	ug/kg	1.8
Vinyl chloride	ND	6.3	ug/kg	1.5
Chloroethane	ND	6.3	ug/kg	1.8
Methylene chloride	ND	6.3	ug/kg	1.5
Acetone	**15 J**	**25**	**ug/kg**	**7.3**
Carbon disulfide	ND	6.3	ug/kg	1.3
1,1-Dichloroethene	ND	6.3	ug/kg	1.0
1,1-Dichloroethane	ND	6.3	ug/kg	0.84
Chloroform	ND	6.3	ug/kg	0.89
1,2-Dichloroethane	ND	6.3	ug/kg	0.75
2-Butanone	ND	25	ug/kg	3.4
1,1,1-Trichloroethane	ND	6.3	ug/kg	0.87
Carbon tetrachloride	ND	6.3	ug/kg	0.80
Bromodichloromethane	ND	6.3	ug/kg	0.88
1,2-Dichloropropane	ND	6.3	ug/kg	0.78
cis-1,3-Dichloropropene	ND	6.3	ug/kg	0.79
Trichloroethene	ND	6.3	ug/kg	1.0
Dibromochloromethane	ND	6.3	ug/kg	0.75
1,1,2-Trichloroethane	ND	6.3	ug/kg	0.63
Benzene	**24**	**6.3**	**ug/kg**	**0.87**
trans-1,3-Dichloropropene	ND	6.3	ug/kg	0.83
Bromoform	ND	6.3	ug/kg	0.90
4-Methyl-2-pentanone	**9.0 J**	**25**	**ug/kg**	**2.0**
2-Hexanone	ND	25	ug/kg	1.9
Tetrachloroethene	ND	6.3	ug/kg	1.5
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg	1.0
Toluene	**5.9 J**	**6.3**	**ug/kg**	**0.90**
Chlorobenzene	ND	6.3	ug/kg	1.4
Ethylbenzene	**5.7 J**	**6.3**	**ug/kg**	**1.5**
Styrene	ND	6.3	ug/kg	1.4
Xylenes (total)	**11 J**	**13**	**ug/kg**	**4.8**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	111	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-101

GC/MS Volatiles

Lot-Sample #...: A4L210179-001 Work Order #...: G1KXP1AF Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-101

General Chemistry

Lot-Sample #...: A4L210179-001 Work Order #...: G1KXP Matrix.....: SO
Date Sampled...: 12/20/04 11:24 Date Received..: 12/21/04
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.08		
pH (solid)	7.3		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	6.7	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.21		
Nitrogen, as Ammonia	5.5	2.7	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 1		
Percent Solids	74.9	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	260	200	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 64		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-102

GC/MS Volatiles

Lot-Sample #...: A4L210179-002 **Work Order #...:** G1KX11AF **Matrix.....:** SO
Date Sampled...: 12/20/04 11:35 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4364523
Dilution Factor: 1773.05
% Moisture.....: 27 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**650000 J,B**	**2400000**	**ug/kg**	**240000**
Benzene	ND	610000	ug/kg	16000
Bromodichloromethane	ND	610000	ug/kg	29000
Bromoform	ND	610000	ug/kg	32000
Bromomethane	ND	610000	ug/kg	61000
2-Butanone	ND	2400000	ug/kg	120000
Carbon disulfide	ND	610000	ug/kg	49000
Carbon tetrachloride	ND	610000	ug/kg	29000
Chlorobenzene	ND	610000	ug/kg	15000
Dibromochloromethane	ND	610000	ug/kg	17000
Chloroethane	ND	610000	ug/kg	160000
Chloroform	ND	610000	ug/kg	29000
Chloromethane	ND	610000	ug/kg	13000
1,1-Dichloroethane	ND	610000	ug/kg	18000
1,2-Dichloroethane	ND	610000	ug/kg	23000
1,1-Dichloroethene	ND	610000	ug/kg	20000
cis-1,2-Dichloroethene	ND	610000	ug/kg	34000
trans-1,2-Dichloroethene	ND	610000	ug/kg	27000
1,2-Dichloropropane	ND	610000	ug/kg	18000
cis-1,3-Dichloropropene	ND	610000	ug/kg	13000
trans-1,3-Dichloropropene	ND	610000	ug/kg	13000
Ethylbenzene	**2100000**	**610000**	**ug/kg**	**17000**
2-Hexanone	ND	2400000	ug/kg	59000
Methylene chloride	ND	610000	ug/kg	240000
4-Methyl-2-pentanone	**1700000 J**	**2400000**	**ug/kg**	**27000**
Styrene	ND	610000	ug/kg	68000
1,1,2,2-Tetrachloroethane	ND	610000	ug/kg	20000
Tetrachloroethene	ND	610000	ug/kg	22000
Toluene	**18000000 B**	**610000**	**ug/kg**	**22000**
1,1,1-Trichloroethane	ND	610000	ug/kg	23000
1,1,2-Trichloroethane	ND	610000	ug/kg	24000
Trichloroethene	ND	610000	ug/kg	29000
Vinyl chloride	ND	610000	ug/kg	39000
Xylenes (total)	**12000000**	**1200000**	**ug/kg**	**37000**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	20 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	32 DIL,*	(60 - 143)
4-Bromofluorobenzene	50 DIL	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-102

GC/MS Volatiles

Lot-Sample #...: A4L210179-002 Work Order #...: G1KX11AF Matrix.....: SO

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.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-102

General Chemistry

Lot-Sample #...: A4L210179-002 Work Order #...: G1KX1 Matrix.....: SO
Date Sampled...: 12/20/04 11:35 Date Received..: 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.1 B,J	1.4	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.08		
pH (solid)	6.2		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	6.9	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.22		
Nitrogen, as Ammonia	13	2.8	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 1		
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	960	210	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 66		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-103

GC/MS Volatiles

Lot-Sample #...: A4L210179-003 **Work Order #...:** G1KX21AF **Matrix.....:** SO
Date Sampled...: 12/20/04 11:58 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 4364523
Dilution Factor: 17.86
% Moisture.....: 23 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	23000	ug/kg	2300
Benzene	**270 J**	**5800**	**ug/kg**	**150**
Bromodichloromethane	ND	5800	ug/kg	280
Bromoform	ND	5800	ug/kg	300
Bromomethane	ND	5800	ug/kg	580
2-Butanone	ND	23000	ug/kg	1100
Carbon disulfide	ND	5800	ug/kg	460
Carbon tetrachloride	ND	5800	ug/kg	280
Chlorobenzene	ND	5800	ug/kg	150
Dibromochloromethane	ND	5800	ug/kg	160
Chloroethane	ND	5800	ug/kg	1500
Chloroform	ND	5800	ug/kg	280
Chloromethane	ND	5800	ug/kg	120
1,1-Dichloroethane	ND	5800	ug/kg	170
1,2-Dichloroethane	ND	5800	ug/kg	220
1,1-Dichloroethene	ND	5800	ug/kg	190
cis-1,2-Dichloroethene	ND	5800	ug/kg	320
trans-1,2-Dichloroethene	ND	5800	ug/kg	250
1,2-Dichloropropane	ND	5800	ug/kg	170
cis-1,3-Dichloropropene	ND	5800	ug/kg	130
trans-1,3-Dichloropropene	ND	5800	ug/kg	130
Ethylbenzene	**13000**	**5800**	**ug/kg**	**160**
2-Hexanone	ND	23000	ug/kg	560
Methylene chloride	ND	5800	ug/kg	2300
4-Methyl-2-pentanone	ND	23000	ug/kg	250
Styrene	ND	5800	ug/kg	650
1,1,2,2-Tetrachloroethane	ND	5800	ug/kg	190
Tetrachloroethene	ND	5800	ug/kg	210
Toluene	**890 J,B**	**5800**	**ug/kg**	**210**
1,1,1-Trichloroethane	ND	5800	ug/kg	220
1,1,2-Trichloroethane	ND	5800	ug/kg	230
Trichloroethene	ND	5800	ug/kg	280
Vinyl chloride	ND	5800	ug/kg	370
Xylenes (total)	**250000**	**12000**	**ug/kg**	**350**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	58 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	82 DIL	(60 - 143)
4-Bromofluorobenzene	113 DIL	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-103

GC/MS Volatiles

Lot-Sample #...: A4L210179-003 Work Order #...: G1KX21AF Matrix.....: SO

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.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-103

General Chemistry

Lot-Sample #...: A4L210179-003 Work Order #...: G1KX2 Matrix.....: SO
Date Sampled...: 12/20/04 11:58 Date Received..: 12/21/04
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.08		
pH (solid)	7.1		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	6.5	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.21		
Nitrogen, as Ammonia	14	2.6	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 0.9		
Percent Solids	77.1	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	540	190	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 62		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-104

GC/MS Volatiles

Lot-Sample #...: A4L210179-004 **Work Order #...:** G1KX31AF **Matrix.....:** SO
Date Sampled...: 12/20/04 12:05 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 12/30/04
Prep Batch #...: 4364523
Dilution Factor: 462.96
% Moisture.....: 9.1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	510000	ug/kg	50000
Benzene	**7900 J**	**130000**	**ug/kg**	**3300**
Bromodichloromethane	ND	130000	ug/kg	6100
Bromoform	ND	130000	ug/kg	6600
Bromomethane	ND	130000	ug/kg	13000
2-Butanone	ND	510000	ug/kg	25000
Carbon disulfide	ND	130000	ug/kg	10000
Carbon tetrachloride	ND	130000	ug/kg	6100
Chlorobenzene	ND	130000	ug/kg	3200
Dibromochloromethane	ND	130000	ug/kg	3500
Chloroethane	ND	130000	ug/kg	33000
Chloroform	ND	130000	ug/kg	6100
Chloromethane	ND	130000	ug/kg	2600
1,1-Dichloroethane	ND	130000	ug/kg	3700
1,2-Dichloroethane	ND	130000	ug/kg	4700
1,1-Dichloroethene	ND	130000	ug/kg	4200
cis-1,2-Dichloroethene	ND	130000	ug/kg	7100
trans-1,2-Dichloroethene	ND	130000	ug/kg	5600
1,2-Dichloropropane	ND	130000	ug/kg	3800
cis-1,3-Dichloropropene	ND	130000	ug/kg	2800
trans-1,3-Dichloropropene	ND	130000	ug/kg	2800
Ethylbenzene	**2000000**	**130000**	**ug/kg**	**3500**
2-Hexanone	ND	510000	ug/kg	12000
Methylene chloride	ND	130000	ug/kg	50000
4-Methyl-2-pentanone	ND	510000	ug/kg	5600
Styrene	ND	130000	ug/kg	14000
1,1,2,2-Tetrachloroethane	ND	130000	ug/kg	4200
Tetrachloroethene	ND	130000	ug/kg	4600
Toluene	**4100000 B**	**130000**	**ug/kg**	**4600**
1,1,1-Trichloroethane	ND	130000	ug/kg	4800
1,1,2-Trichloroethane	ND	130000	ug/kg	5000
Trichloroethene	ND	130000	ug/kg	6100
Vinyl chloride	ND	130000	ug/kg	8200
Xylenes (total)	**10000000**	**250000**	**ug/kg**	**7600**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	0.0 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	50 DIL,*	(60 - 143)
4-Bromofluorobenzene	36 DIL,*	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-104

GC/MS Volatiles

Lot-Sample #...: A4L210179-004 Work Order #...: G1KX31AF Matrix.....: SO

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.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-104

General Chemistry

Lot-Sample #...: A4L210179-004 Work Order #...: G1KX3 Matrix.....: SO
Date Sampled...: 12/20/04 12:05 Date Received..: 12/21/04
% Moisture.....: 9.1

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.1	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.07		
pH (solid)	7.0		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	5.5	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.18		
Nitrogen, as Ammonia	3.1	2.2	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 0.8		
Percent Solids	90.9	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	250	170	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 53		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-105

GC/MS Volatiles

Lot-Sample #...: A4L210179-005 **Work Order #...:** G1KX81AF **Matrix.....:** SO
Date Sampled...: 12/20/04 13:20 **Date Received..:** 12/21/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.96
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**16 J**	**23**	**ug/kg**	**3.1**
Benzene	**0.56 J**	**5.7**	**ug/kg**	**0.26**
Bromodichloromethane	ND	5.7	ug/kg	0.55
Bromoform	ND	5.7	ug/kg	0.74
Bromomethane	ND	5.7	ug/kg	0.69
2-Butanone	**2.5 J**	**23**	**ug/kg**	**1.1**
Carbon disulfide	ND	5.7	ug/kg	0.23
Carbon tetrachloride	ND	5.7	ug/kg	0.51
Chlorobenzene	ND	5.7	ug/kg	0.32
Dibromochloromethane	ND	5.7	ug/kg	0.41
Chloroethane	ND	5.7	ug/kg	0.61
Chloroform	ND	5.7	ug/kg	0.45
Chloromethane	ND	5.7	ug/kg	0.28
1,1-Dichloroethane	ND	5.7	ug/kg	0.36
1,2-Dichloroethane	ND	5.7	ug/kg	0.55
1,1-Dichloroethene	ND	5.7	ug/kg	0.68
cis-1,2-Dichloroethene	ND	5.7	ug/kg	0.47
trans-1,2-Dichloroethene	ND	5.7	ug/kg	0.62
1,2-Dichloropropane	ND	5.7	ug/kg	0.40
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.40
Ethylbenzene	**2.2 J**	**5.7**	**ug/kg**	**0.60**
2-Hexanone	ND	23	ug/kg	0.95
Methylene chloride	ND	5.7	ug/kg	1.5
4-Methyl-2-pentanone	ND	23	ug/kg	0.61
Styrene	ND	5.7	ug/kg	0.23
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	0.52
Tetrachloroethene	ND	5.7	ug/kg	0.94
Toluene	**1.7 J**	**5.7**	**ug/kg**	**0.33**
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.86
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.47
Trichloroethene	ND	5.7	ug/kg	0.47
Vinyl chloride	ND	5.7	ug/kg	0.50
Xylenes (total)	**1.8 J**	**11**	**ug/kg**	**0.86**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	86	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-105

GC/MS Volatiles

Lot-Sample #...: A4L210179-005 Work Order #...: G1KX81AF Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-105

General Chemistry

Lot-Sample #...: A4L210179-005 Work Order #...: G1KX8 Matrix.....: SO
Date Sampled...: 12/20/04 13:20 Date Received..: 12/21/04
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.2	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.07		
pH (solid)	7.9		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	5.9	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.19		
Nitrogen, as Ammonia	2.9	2.4	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 0.9		
Percent Solids	84.5	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	130 B	180	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 57		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-106

GC/MS Volatiles

Lot-Sample #...:	A4L210179-006	**Work Order #...:**	G1K0K1AF	**Matrix.....:**	SO
Date Sampled...:	12/20/04 13:29	**Date Received..:**	12/21/04		
Prep Date.....:	12/22/04	**Analysis Date..:**	12/31/04		
Prep Batch #...:	4364523				
Dilution Factor:	0.94				
% Moisture.....:	21	**Method.....:**	SW846 8260B		

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1200	ug/kg	120
Benzene	**86 J**	**300**	**ug/kg**	**7.6**
Bromodichloromethane	ND	300	ug/kg	14
Bromoform	ND	300	ug/kg	15
Bromomethane	ND	300	ug/kg	30
2-Butanone	ND	1200	ug/kg	58
Carbon disulfide	ND	300	ug/kg	24
Carbon tetrachloride	ND	300	ug/kg	14
Chlorobenzene	ND	300	ug/kg	7.5
Dibromochloromethane	ND	300	ug/kg	8.2
Chloroethane	ND	300	ug/kg	77
Chloroform	ND	300	ug/kg	14
Chloromethane	ND	300	ug/kg	6.2
1,1-Dichloroethane	ND	300	ug/kg	8.6
1,2-Dichloroethane	ND	300	ug/kg	11
1,1-Dichloroethene	ND	300	ug/kg	9.8
cis-1,2-Dichloroethene	ND	300	ug/kg	17
trans-1,2-Dichloroethene	ND	300	ug/kg	13
1,2-Dichloropropane	ND	300	ug/kg	8.8
cis-1,3-Dichloropropene	ND	300	ug/kg	6.5
trans-1,3-Dichloropropene	ND	300	ug/kg	6.4
Ethylbenzene	**130 J**	**300**	**ug/kg**	**8.1**
2-Hexanone	ND	1200	ug/kg	28
Methylene chloride	ND	300	ug/kg	120
4-Methyl-2-pentanone	ND	1200	ug/kg	13
Styrene	ND	300	ug/kg	33
1,1,2,2-Tetrachloroethane	ND	300	ug/kg	9.7
Tetrachloroethene	ND	300	ug/kg	11
Toluene	**430 B**	**300**	**ug/kg**	**11**
1,1,1-Trichloroethane	ND	300	ug/kg	11
1,1,2-Trichloroethane	ND	300	ug/kg	12
Trichloroethene	ND	300	ug/kg	14
Vinyl chloride	ND	300	ug/kg	19
Xylenes (total)	**4300**	**590**	**ug/kg**	**18**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	60	(59 - 138)
1,2-Dichloroethane-d4	58 *	(61 - 130)
Toluene-d8	62	(60 - 143)
4-Bromofluorobenzene	72	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-106

GC/MS Volatiles

Lot-Sample #...: A4L210179-006 Work Order #...: G1K0K1AF Matrix.....: SO

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-106

General Chemistry

Lot-Sample #...: A4L210179-006 Work Order #...: G1K0K Matrix.....: SO
Date Sampled...: 12/20/04 13:29 Date Received..: 12/21/04
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.3	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
		Dilution Factor: 1		MDL.....: 0.08		
pH (solid)	7.5		No Units	SW846 9045C	12/22/04	4362439
		Dilution Factor: 1		MDL.....:		
Nitrate as N	0.22 B	6.3	mg/kg	MCAWW 300.0A	01/03/05	5004039
		Dilution Factor: 1		MDL.....: 0.20		
Nitrogen, as Ammonia	14	2.5	mg/kg	MCAWW 350.3	01/04/05	5004450
		Dilution Factor: 1		MDL.....: 0.9		
Percent Solids	79.4	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		
Total Kjeldahl Nitrogen	1200	190	mg/kg	MCAWW 351.3	01/04/05	5004445
		Dilution Factor: 1		MDL.....: 60		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-107

GC/MS Volatiles

Lot-Sample #...: A4L210179-007 **Work Order #...:** G1K0L1AF **Matrix.....:** SO
Date Sampled...: 12/20/04 13:55 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 4364523
Dilution Factor: 92.59
% Moisture.....: 27 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	130000	ug/kg	13000
Benzene	ND	32000	ug/kg	820
Bromodichloromethane	ND	32000	ug/kg	1500
Bromoform	ND	32000	ug/kg	1700
Bromomethane	ND	32000	ug/kg	3200
2-Butanone	ND	130000	ug/kg	6200
Carbon disulfide	ND	32000	ug/kg	2500
Carbon tetrachloride	ND	32000	ug/kg	1500
Chlorobenzene	ND	32000	ug/kg	800
Dibromochloromethane	ND	32000	ug/kg	880
Chloroethane	ND	32000	ug/kg	8300
Chloroform	ND	32000	ug/kg	1500
Chloromethane	ND	32000	ug/kg	660
1,1-Dichloroethane	ND	32000	ug/kg	930
1,2-Dichloroethane	ND	32000	ug/kg	1200
1,1-Dichloroethene	ND	32000	ug/kg	1100
cis-1,2-Dichloroethene	ND	32000	ug/kg	1800
trans-1,2-Dichloroethene	ND	32000	ug/kg	1400
1,2-Dichloropropane	ND	32000	ug/kg	940
cis-1,3-Dichloropropene	ND	32000	ug/kg	700
trans-1,3-Dichloropropene	ND	32000	ug/kg	690
Ethylbenzene	**540000**	**32000**	**ug/kg**	**870**
2-Hexanone	ND	130000	ug/kg	3100
Methylene chloride	ND	32000	ug/kg	13000
4-Methyl-2-pentanone	ND	130000	ug/kg	1400
Styrene	ND	32000	ug/kg	3600
1,1,2,2-Tetrachloroethane	ND	32000	ug/kg	1000
Tetrachloroethene	ND	32000	ug/kg	1100
Toluene	**630000 B**	**32000**	**ug/kg**	**1200**
1,1,1-Trichloroethane	ND	32000	ug/kg	1200
1,1,2-Trichloroethane	ND	32000	ug/kg	1300
Trichloroethene	ND	32000	ug/kg	1500
Vinyl chloride	ND	32000	ug/kg	2000
Xylenes (total)	**3200000**	**64000**	**ug/kg**	**1900**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	48 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	106 DIL	(60 - 143)
4-Bromofluorobenzene	124 DIL	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-107

GC/MS Volatiles

Lot-Sample #...: A4L210179-007 Work Order #...: G1K0L1AF Matrix.....: SO

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.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-107

General Chemistry

Lot-Sample #...: A4L210179-007 Work Order #...: G1K0L Matrix.....: SO
Date Sampled...: 12/20/04 13:55 Date Received..: 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.4 B,J	1.4	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.08		
pH (solid)	7.8		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	6.9	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.22		
Nitrogen, as Ammonia	7.0	2.8	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 1		
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	350	210	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 66		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-108

GC/MS Volatiles

Lot-Sample #...: A4L210179-008 **Work Order #...:** G1K0M1AF **Matrix.....:** SO
Date Sampled...: 12/20/04 14:02 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4364523
Dilution Factor: 1851.85
% Moisture.....: 26 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**280000 J,B**	**2500000**	**ug/kg**	**250000**
Benzene	ND	620000	ug/kg	16000
Bromodichloromethane	ND	620000	ug/kg	30000
Bromoform	ND	620000	ug/kg	32000
Bromomethane	ND	620000	ug/kg	62000
2-Butanone	ND	2500000	ug/kg	120000
Carbon disulfide	ND	620000	ug/kg	50000
Carbon tetrachloride	ND	620000	ug/kg	30000
Chlorobenzene	ND	620000	ug/kg	16000
Dibromochloromethane	ND	620000	ug/kg	17000
Chloroethane	ND	620000	ug/kg	160000
Chloroform	ND	620000	ug/kg	30000
Chloromethane	ND	620000	ug/kg	13000
1,1-Dichloroethane	ND	620000	ug/kg	18000
1,2-Dichloroethane	ND	620000	ug/kg	23000
1,1-Dichloroethene	ND	620000	ug/kg	21000
cis-1,2-Dichloroethene	ND	620000	ug/kg	35000
trans-1,2-Dichloroethene	ND	620000	ug/kg	27000
1,2-Dichloropropane	ND	620000	ug/kg	18000
cis-1,3-Dichloropropene	ND	620000	ug/kg	14000
trans-1,3-Dichloropropene	ND	620000	ug/kg	13000
Ethylbenzene	**4800000**	**620000**	**ug/kg**	**17000**
2-Hexanone	ND	2500000	ug/kg	60000
Methylene chloride	ND	620000	ug/kg	250000
4-Methyl-2-pentanone	ND	2500000	ug/kg	27000
Styrene	ND	620000	ug/kg	70000
1,1,2,2-Tetrachloroethane	ND	620000	ug/kg	20000
Tetrachloroethene	ND	620000	ug/kg	22000
Toluene	**21000000 B**	**620000**	**ug/kg**	**23000**
1,1,1-Trichloroethane	ND	620000	ug/kg	24000
1,1,2-Trichloroethane	ND	620000	ug/kg	25000
Trichloroethene	ND	620000	ug/kg	30000
Vinyl chloride	ND	620000	ug/kg	40000
Xylenes (total)	**24000000**	**1200000**	**ug/kg**	**37000**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	19 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	32 DIL,*	(60 - 143)
4-Bromofluorobenzene	40 DIL,*	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-108

GC/MS Volatiles

Lot-Sample #...: A4L210179-008 Work Order #...: G1K0M1AF Matrix.....: SO

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.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-108

General Chemistry

Lot-Sample #...: A4L210179-008 Work Order #...: G1K0M Matrix.....: SO
Date Sampled...: 12/20/04 14:02 Date Received..: 12/21/04
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.3 B,J	1.3	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.08		
pH (solid)	8.0		No Units	SW846 9045C	12/22/04	4362439
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	6.7	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.21		
Nitrogen, as Ammonia	7.7	2.7	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 1		
Percent Solids	74.4	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	ND	200	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 64		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-109

GC/MS Volatiles

Lot-Sample #...: A4L210179-009 **Work Order #...:** G1K0P1AF **Matrix.....:** SO
Date Sampled...: 12/20/04 14:35 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 4364523
Dilution Factor: 8.93
% Moisture.....: 20 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	11000	ug/kg	1100
Benzene	ND	2800	ug/kg	71
Bromodichloromethane	ND	2800	ug/kg	130
Bromoform	ND	2800	ug/kg	140
Bromomethane	ND	2800	ug/kg	280
2-Butanone	ND	11000	ug/kg	540
Carbon disulfide	ND	2800	ug/kg	220
Carbon tetrachloride	ND	2800	ug/kg	130
Chlorobenzene	ND	2800	ug/kg	70
Dibromochloromethane	ND	2800	ug/kg	77
Chloroethane	ND	2800	ug/kg	720
Chloroform	ND	2800	ug/kg	130
Chloromethane	ND	2800	ug/kg	58
1,1-Dichloroethane	ND	2800	ug/kg	81
1,2-Dichloroethane	ND	2800	ug/kg	100
1,1-Dichloroethene	ND	2800	ug/kg	92
cis-1,2-Dichloroethene	ND	2800	ug/kg	160
trans-1,2-Dichloroethene	ND	2800	ug/kg	120
1,2-Dichloropropane	ND	2800	ug/kg	82
cis-1,3-Dichloropropene	ND	2800	ug/kg	61
trans-1,3-Dichloropropene	ND	2800	ug/kg	60
Ethylbenzene	**26000**	**2800**	**ug/kg**	**75**
2-Hexanone	ND	11000	ug/kg	270
Methylene chloride	ND	2800	ug/kg	1100
4-Methyl-2-pentanone	ND	11000	ug/kg	120
Styrene	ND	2800	ug/kg	310
1,1,2,2-Tetrachloroethane	ND	2800	ug/kg	91
Tetrachloroethene	ND	2800	ug/kg	100
Toluene	**3700 B**	**2800**	**ug/kg**	**100**
1,1,1-Trichloroethane	ND	2800	ug/kg	110
1,1,2-Trichloroethane	ND	2800	ug/kg	110
Trichloroethene	ND	2800	ug/kg	130
Vinyl chloride	ND	2800	ug/kg	180
Xylenes (total)	**230000**	**5600**	**ug/kg**	**170**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	72 DIL	(59 - 138)
1,2-Dichloroethane-d4	71 DIL	(61 - 130)
Toluene-d8	81 DIL	(60 - 143)
4-Bromofluorobenzene	107 DIL	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-109

GC/MS Volatiles

Lot-Sample #...: A4L210179-009 Work Order #...: G1K0P1AF Matrix.....: SO

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.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-109

General Chemistry

Lot-Sample #...: A4L210179-009 Work Order #...: G1K0P Matrix.....: SO
Date Sampled...: 12/20/04 14:35 Date Received..: 12/21/04
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.3 B,J	1.2	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
		Dilution Factor: 1		MDL.....: 0.07		
pH (solid)	7.8		No Units	SW846 9045C	12/22/04	4362439
		Dilution Factor: 1		MDL.....:		
Nitrate as N	ND	6.2	mg/kg	MCAWW 300.0A	01/03/05	5004039
		Dilution Factor: 1		MDL.....: 0.20		
Nitrogen, as Ammonia	11	2.5	mg/kg	MCAWW 350.3	01/04/05	5004450
		Dilution Factor: 1		MDL.....: 0.9		
Percent Solids	80.4	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		
Total Kjeldahl Nitrogen	450	190	mg/kg	MCAWW 351.3	01/04/05	5004445
		Dilution Factor: 1		MDL.....: 60		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-110

GC/MS Volatiles

Lot-Sample #...: A4L210179-010 **Work Order #...:** G1K0Q1AF **Matrix.....:** SO
Date Sampled...: 12/20/04 14:41 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4364523
Dilution Factor: 606.06
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**120000 J,B**	**710000**	**ug/kg**	**70000**
Benzene	ND	180000	ug/kg	4600
Bromodichloromethane	ND	180000	ug/kg	8500
Bromoform	ND	180000	ug/kg	9300
Bromomethane	ND	180000	ug/kg	18000
2-Butanone	ND	710000	ug/kg	35000
Carbon disulfide	ND	180000	ug/kg	14000
Carbon tetrachloride	ND	180000	ug/kg	8500
Chlorobenzene	ND	180000	ug/kg	4500
Dibromochloromethane	ND	180000	ug/kg	4900
Chloroethane	ND	180000	ug/kg	46000
Chloroform	ND	180000	ug/kg	8500
Chloromethane	ND	180000	ug/kg	3700
1,1-Dichloroethane	ND	180000	ug/kg	5200
1,2-Dichloroethane	ND	180000	ug/kg	6600
1,1-Dichloroethene	ND	180000	ug/kg	5900
cis-1,2-Dichloroethene	ND	180000	ug/kg	10000
trans-1,2-Dichloroethene	ND	180000	ug/kg	7800
1,2-Dichloropropane	ND	180000	ug/kg	5300
cis-1,3-Dichloropropene	ND	180000	ug/kg	3900
trans-1,3-Dichloropropene	ND	180000	ug/kg	3800
Ethylbenzene	**1500000**	**180000**	**ug/kg**	**4800**
2-Hexanone	ND	710000	ug/kg	17000
Methylene chloride	ND	180000	ug/kg	70000
4-Methyl-2-pentanone	ND	710000	ug/kg	7800
Styrene	ND	180000	ug/kg	20000
1,1,2,2-Tetrachloroethane	ND	180000	ug/kg	5800
Tetrachloroethene	ND	180000	ug/kg	6400
Toluene	**5000000 B**	**180000**	**ug/kg**	**6500**
1,1,1-Trichloroethane	ND	180000	ug/kg	6800
1,1,2-Trichloroethane	ND	180000	ug/kg	7000
Trichloroethene	ND	180000	ug/kg	8500
Vinyl chloride	ND	180000	ug/kg	11000
Xylenes (total)	**7900000**	**360000**	**ug/kg**	**11000**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	0.0 DIL,*	(59 - 138)
1,2-Dichloroethane-d4	0.0 DIL,*	(61 - 130)
Toluene-d8	9.6 DIL,*	(60 - 143)
4-Bromofluorobenzene	14 DIL,*	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-110

GC/MS Volatiles

Lot-Sample #...: A4L210179-010 Work Order #...: G1K0Q1AF Matrix.....: SO

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.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-110

General Chemistry

Lot-Sample #...: A4L210179-010 Work Order #...: G1K0Q Matrix.....: SO
Date Sampled...: 12/20/04 14:41 Date Received..: 12/21/04
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Phosphate as P, Ortho	0.2 B,J	1.2	mg/kg	MCAWW 365.2	12/30-12/31/04	4366010
	Dilution Factor: 1			MDL.....: 0.07		
pH (solid)	8.0		No Units	SW846 9045C	12/22/04	4362422
	Dilution Factor: 1			MDL.....:		
Nitrate as N	ND	5.9	mg/kg	MCAWW 300.0A	01/03/05	5004039
	Dilution Factor: 1			MDL.....: 0.19		
Nitrogen, as Ammonia	2.3	2.3	mg/kg	MCAWW 350.3	01/04/05	5004450
	Dilution Factor: 1			MDL.....: 0.8		
Percent Solids	85.1	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
	Dilution Factor: 1			MDL.....: 10.0		
Total Kjeldahl Nitrogen	98 B	180	mg/kg	MCAWW 351.3	01/04/05	5004445
	Dilution Factor: 1			MDL.....: 56		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-111

GC/MS Volatiles

Lot-Sample #...: A4L210179-011 **Work Order #...:** G1K0T1AD **Matrix.....:** SO
Date Sampled...: 12/20/04 15:23 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.86
% Moisture.....: 25 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	5.7	ug/kg	1.0
trans-1,2-Dichloroethene	ND	5.7	ug/kg	0.87
Chloromethane	ND	5.7	ug/kg	2.1
Bromomethane	ND	5.7	ug/kg	1.6
Vinyl chloride	ND	5.7	ug/kg	1.4
Chloroethane	ND	5.7	ug/kg	1.6
Methylene chloride	ND	5.7	ug/kg	1.4
Acetone	**7.1 J**	**23**	**ug/kg**	**6.6**
Carbon disulfide	ND	5.7	ug/kg	1.1
1,1-Dichloroethene	ND	5.7	ug/kg	0.93
1,1-Dichloroethane	ND	5.7	ug/kg	0.77
Chloroform	ND	5.7	ug/kg	0.81
1,2-Dichloroethane	ND	5.7	ug/kg	0.69
2-Butanone	ND	23	ug/kg	3.1
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.79
Carbon tetrachloride	ND	5.7	ug/kg	0.73
Bromodichloromethane	ND	5.7	ug/kg	0.80
1,2-Dichloropropane	ND	5.7	ug/kg	0.71
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.72
Trichloroethene	ND	5.7	ug/kg	0.91
Dibromochloromethane	ND	5.7	ug/kg	0.69
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.57
Benzene	ND	5.7	ug/kg	0.79
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.75
Bromoform	ND	5.7	ug/kg	0.82
4-Methyl-2-pentanone	ND	23	ug/kg	1.8
2-Hexanone	ND	23	ug/kg	1.7
Tetrachloroethene	ND	5.7	ug/kg	1.4
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	0.95
Toluene	**2.8 J**	**5.7**	**ug/kg**	**0.82**
Chlorobenzene	ND	5.7	ug/kg	1.3
Ethylbenzene	ND	5.7	ug/kg	1.4
Styrene	ND	5.7	ug/kg	1.3
Xylenes (total)	ND	11	ug/kg	4.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	105	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-111

GC/MS Volatiles

Lot-Sample #...: A4L210179-011 Work Order #...: G1K0T1AD Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-111

General Chemistry

Lot-Sample #...: A4L210179-011 Work Order #...: G1K0T Matrix.....: SO
Date Sampled...: 12/20/04 15:23 Date Received..: 12/21/04
% Moisture.....: 25

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)	3.6	0.13	%	ASTM D2974	01/05/05	5005241
		Dilution Factor: 1		MDL.....: 0.13		
Percent Solids	75.3	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-112

GC/MS Volatiles

Lot-Sample #...: A4L210179-012 Work Order #...: G1K021AD Matrix.....: SO
Date Sampled...: 12/20/04 15:33 Date Received..: 12/21/04
Prep Date.....: 12/22/04 Analysis Date..: 12/31/04
Prep Batch #...: 4364523
Dilution Factor: 1
% Moisture.....: 18 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**130 J,B**	**1200**	**ug/kg**	**120**
Benzene	ND	310	ug/kg	7.8
Bromodichloromethane	ND	310	ug/kg	15
Bromoform	ND	310	ug/kg	16
Bromomethane	ND	310	ug/kg	31
2-Butanone	ND	1200	ug/kg	60
Carbon disulfide	ND	310	ug/kg	24
Carbon tetrachloride	ND	310	ug/kg	15
Chlorobenzene	ND	310	ug/kg	7.7
Dibromochloromethane	ND	310	ug/kg	8.4
Chloroethane	ND	310	ug/kg	80
Chloroform	ND	310	ug/kg	15
Chloromethane	ND	310	ug/kg	6.4
1,1-Dichloroethane	ND	310	ug/kg	8.9
1,2-Dichloroethane	ND	310	ug/kg	11
1,1-Dichloroethene	ND	310	ug/kg	10
cis-1,2-Dichloroethene	ND	310	ug/kg	17
trans-1,2-Dichloroethene	ND	310	ug/kg	13
1,2-Dichloropropane	ND	310	ug/kg	9.1
cis-1,3-Dichloropropene	ND	310	ug/kg	6.7
trans-1,3-Dichloropropene	ND	310	ug/kg	6.6
Ethylbenzene	**130 J**	**310**	**ug/kg**	**8.3**
2-Hexanone	ND	1200	ug/kg	29
Methylene chloride	ND	310	ug/kg	120
4-Methyl-2-pentanone	ND	1200	ug/kg	13
Styrene	ND	310	ug/kg	34
1,1,2,2-Tetrachloroethane	ND	310	ug/kg	10
Tetrachloroethene	ND	310	ug/kg	11
Toluene	**300 J,B**	**310**	**ug/kg**	**11**
1,1,1-Trichloroethane	ND	310	ug/kg	12
1,1,2-Trichloroethane	ND	310	ug/kg	12
Trichloroethene	ND	310	ug/kg	15
Vinyl chloride	ND	310	ug/kg	20
Xylenes (total)	**670**	**610**	**ug/kg**	**18**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	66	(59 - 138)
1,2-Dichloroethane-d4	64	(61 - 130)
Toluene-d8	64	(60 - 143)
4-Bromofluorobenzene	74	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-112

GC/MS Volatiles

Lot-Sample #...: A4L210179-012 Work Order #...: G1K021AD Matrix.....: SO

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-112

General Chemistry

Lot-Sample #...: A4L210179-012 Work Order #...: G1K02 Matrix.....: SO
Date Sampled...: 12/20/04 15:33 Date Received..: 12/21/04
% Moisture.....: 18

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)	3.6	0.12	%	ASTM D2974	01/05/05	5005241
		Dilution Factor: 1		MDL.....: 0.12		
Percent Solids	81.7	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-113

GC/MS Volatiles

Lot-Sample #...: A4L210179-013 **Work Order #...:** G1K041AD **Matrix.....:** SO
Date Sampled...: 12/20/04 16:01 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.93
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	5.7	ug/kg	1.0
trans-1,2-Dichloroethene	ND	5.7	ug/kg	0.87
Chloromethane	ND	5.7	ug/kg	2.1
Bromomethane	ND	5.7	ug/kg	1.6
Vinyl chloride	ND	5.7	ug/kg	1.4
Chloroethane	ND	5.7	ug/kg	1.6
Methylene chloride	ND	5.7	ug/kg	1.4
Acetone	ND	23	ug/kg	6.7
Carbon disulfide	ND	5.7	ug/kg	1.1
1,1-Dichloroethene	ND	5.7	ug/kg	0.93
1,1-Dichloroethane	ND	5.7	ug/kg	0.77
Chloroform	ND	5.7	ug/kg	0.82
1,2-Dichloroethane	ND	5.7	ug/kg	0.69
2-Butanone	ND	23	ug/kg	3.1
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.79
Carbon tetrachloride	ND	5.7	ug/kg	0.74
Bromodichloromethane	ND	5.7	ug/kg	0.80
1,2-Dichloropropane	ND	5.7	ug/kg	0.71
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.72
Trichloroethene	ND	5.7	ug/kg	0.92
Dibromochloromethane	ND	5.7	ug/kg	0.69
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.57
Benzene	ND	5.7	ug/kg	0.79
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.76
Bromoform	ND	5.7	ug/kg	0.83
4-Methyl-2-pentanone	ND	23	ug/kg	1.8
2-Hexanone	ND	23	ug/kg	1.7
Tetrachloroethene	ND	5.7	ug/kg	1.4
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	0.95
Toluene	**1.4 J**	**5.7**	**ug/kg**	**0.83**
Chlorobenzene	ND	5.7	ug/kg	1.3
Ethylbenzene	ND	5.7	ug/kg	1.4
Styrene	ND	5.7	ug/kg	1.3
Xylenes (total)	ND	11	ug/kg	4.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(59 - 138)
1,2-Dichloroethane-d4	92	(61 - 130)
Toluene-d8	109	(60 - 143)
4-Bromofluorobenzene	90	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-113

GC/MS Volatiles

Lot-Sample #...: A4L210179-013 Work Order #...: G1K041AD Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-113

General Chemistry

Lot-Sample #...: A4L210179-013 Work Order #...: G1K04 Matrix.....: SO
Date Sampled...: 12/20/04 16:01 Date Received..: 12/21/04
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)	1.7	0.12	%	ASTM D2974	01/05/05	5005241
		Dilution Factor: 1		MDL.....: 0.12		
Percent Solids	80.9	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-114

GC/MS Volatiles

Lot-Sample #...: A4L210179-014 **Work Order #...:** G1K061AD **Matrix.....:** SO
Date Sampled...: 12/20/04 16:12 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.94
% Moisture.....: 23 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	6.1	ug/kg	1.1
trans-1,2-Dichloroethene	ND	6.1	ug/kg	0.93
Chloromethane	ND	6.1	ug/kg	2.2
Bromomethane	ND	6.1	ug/kg	1.7
Vinyl chloride	ND	6.1	ug/kg	1.5
Chloroethane	ND	6.1	ug/kg	1.7
Methylene chloride	ND	6.1	ug/kg	1.5
Acetone	**9.1 J**	**24**	**ug/kg**	**7.1**
Carbon disulfide	ND	6.1	ug/kg	1.2
1,1-Dichloroethene	ND	6.1	ug/kg	0.99
1,1-Dichloroethane	ND	6.1	ug/kg	0.82
Chloroform	ND	6.1	ug/kg	0.87
1,2-Dichloroethane	ND	6.1	ug/kg	0.73
2-Butanone	ND	24	ug/kg	3.3
1,1,1-Trichloroethane	ND	6.1	ug/kg	0.84
Carbon tetrachloride	ND	6.1	ug/kg	0.78
Bromodichloromethane	ND	6.1	ug/kg	0.85
1,2-Dichloropropane	ND	6.1	ug/kg	0.76
cis-1,3-Dichloropropene	ND	6.1	ug/kg	0.77
Trichloroethene	ND	6.1	ug/kg	0.97
Dibromochloromethane	ND	6.1	ug/kg	0.73
1,1,2-Trichloroethane	ND	6.1	ug/kg	0.61
Benzene	ND	6.1	ug/kg	0.84
trans-1,3-Dichloropropene	ND	6.1	ug/kg	0.80
Bromoform	ND	6.1	ug/kg	0.88
4-Methyl-2-pentanone	ND	24	ug/kg	1.9
2-Hexanone	ND	24	ug/kg	1.8
Tetrachloroethene	ND	6.1	ug/kg	1.5
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	1.0
Toluene	**10**	**6.1**	**ug/kg**	**0.88**
Chlorobenzene	ND	6.1	ug/kg	1.3
Ethylbenzene	**3.3 J**	**6.1**	**ug/kg**	**1.5**
Styrene	ND	6.1	ug/kg	1.3
Xylenes (total)	**18**	**12**	**ug/kg**	**4.6**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
1,2-Dichloroethane-d4	90	(61 - 130)
Toluene-d8	113	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-114

GC/MS Volatiles

Lot-Sample #...: A4L210179-014 **Work Order #...:** G1K061AD **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-114

General Chemistry

Lot-Sample #...: A4L210179-014 Work Order #...: G1K06 Matrix.....: SO
Date Sampled...: 12/20/04 16:12 Date Received..: 12/21/04
% Moisture.....: 23

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)	2.7	0.13	%	ASTM D2974	01/05/05	5005241
		Dilution Factor: 1		MDL.....: 0.13		
Percent Solids	77.2	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1		MDL.....: 10.0		

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

GC/MS Volatiles

Lot-Sample #...: A4L210179-015 **Work Order #...:** G1K091A5 **Matrix.....:** SO
Date Sampled...: 12/20/04 16:39 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.78
% Moisture.....: 15 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	4.6	ug/kg	0.83
trans-1,2-Dichloroethene	ND	4.6	ug/kg	0.69
Chloromethane	ND	4.6	ug/kg	1.6
Bromomethane	ND	4.6	ug/kg	1.3
Vinyl chloride	ND	4.6	ug/kg	1.1
Chloroethane	ND	4.6	ug/kg	1.3
Methylene chloride	ND	4.6	ug/kg	1.1
Acetone	ND	18	ug/kg	5.3
Carbon disulfide	ND	4.6	ug/kg	0.91
1,1-Dichloroethene	ND	4.6	ug/kg	0.74
1,1-Dichloroethane	ND	4.6	ug/kg	0.61
Chloroform	ND	4.6	ug/kg	0.65
1,2-Dichloroethane	ND	4.6	ug/kg	0.55
2-Butanone	ND	18	ug/kg	2.5
1,1,1-Trichloroethane	ND	4.6	ug/kg	0.63
Carbon tetrachloride	ND	4.6	ug/kg	0.58
Bromodichloromethane	ND	4.6	ug/kg	0.64
1,2-Dichloropropane	ND	4.6	ug/kg	0.57
cis-1,3-Dichloropropene	ND	4.6	ug/kg	0.58
Trichloroethene	ND	4.6	ug/kg	0.73
Dibromochloromethane	ND	4.6	ug/kg	0.55
1,1,2-Trichloroethane	ND	4.6	ug/kg	0.46
Benzene	ND	4.6	ug/kg	0.63
trans-1,3-Dichloropropene	ND	4.6	ug/kg	0.60
Bromoform	ND	4.6	ug/kg	0.66
4-Methyl-2-pentanone	ND	18	ug/kg	1.5
2-Hexanone	ND	18	ug/kg	1.4
Tetrachloroethene	ND	4.6	ug/kg	1.1
1,1,2,2-Tetrachloroethane	ND	4.6	ug/kg	0.76
Toluene	**2.5 J**	**4.6**	**ug/kg**	**0.66**
Chlorobenzene	ND	4.6	ug/kg	1.0
Ethylbenzene	ND	4.6	ug/kg	1.1
Styrene	ND	4.6	ug/kg	1.0
Xylenes (total)	**8.1 J**	**9.1**	**ug/kg**	**3.5**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
1,2-Dichloroethane-d4	93	(61 - 130)
Toluene-d8	102	(60 - 143)
4-Bromofluorobenzene	94	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

GC/MS Volatiles

Lot-Sample #...: A4L210179-015 **Work Order #...:** G1K091A5 **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-015 **Work Order #...:** G1K091AA **Matrix.....:** SO
Date Sampled...: 12/20/04 16:39 **Date Received..:** 12/21/04
Prep Date.....: 12/21/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4356414
Dilution Factor: 1
% Moisture.....: 15 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	390	ug/kg	1.1
Acenaphthylene	ND	390	ug/kg	1.6
Acetophenone	ND	390	ug/kg	6.4
Anthracene	ND	390	ug/kg	2.7
Atrazine	ND	390	ug/kg	13
Benzo(a)anthracene	ND	390	ug/kg	1.6
Benzo(a)pyrene	ND	390	ug/kg	2.7
Benzo(b)fluoranthene	ND	390	ug/kg	2.7
Benzo(ghi)perylene	ND	390	ug/kg	2.1
Benzo(k)fluoranthene	ND	390	ug/kg	2.7
Benzaldehyde	ND	390	ug/kg	8.1
1,1'-Biphenyl	ND	390	ug/kg	8.4
bis(2-Chloroethoxy) methane	ND	390	ug/kg	19
bis(2-Chloroethyl)-ether	ND	390	ug/kg	4.8
bis(2-Ethylhexyl) phthalate	ND	390	ug/kg	19
4-Bromophenyl phenyl ether	ND	390	ug/kg	5.5
Butyl benzyl phthalate	ND	390	ug/kg	4.3
Caprolactam	ND	390	ug/kg	9.1
Carbazole	ND	390	ug/kg	11
4-Chloroaniline	ND	390	ug/kg	6.1
4-Chloro-3-methylphenol	ND	390	ug/kg	60
2-Chloronaphthalene	ND	390	ug/kg	7.4
2-Chlorophenol	ND	390	ug/kg	4.2
4-Chlorophenyl phenyl ether	ND	390	ug/kg	4.2
Chrysene	ND	390	ug/kg	1.2
Dibenz(a,h)anthracene	ND	390	ug/kg	1.8
Dibenzofuran	ND	390	ug/kg	0.97
3,3'-Dichlorobenzidine	ND	1900	ug/kg	5.7
2,4-Dichlorophenol	ND	390	ug/kg	6.2
Diethyl phthalate	ND	390	ug/kg	7.3
2,4-Dimethylphenol	ND	390	ug/kg	8.0
Dimethyl phthalate	ND	390	ug/kg	7.5
Di-n-butyl phthalate	ND	390	ug/kg	5.9

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-015 Work Order #...: G1K091AA Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	1900	ug/kg	55
2,4-Dinitrophenol	ND	1900	ug/kg	48
2,4-Dinitrotoluene	ND	390	ug/kg	6.7
2,6-Dinitrotoluene	ND	390	ug/kg	6.8
Di-n-octyl phthalate	ND	390	ug/kg	13
Fluoranthene	ND	390	ug/kg	1.1
Fluorene	ND	390	ug/kg	1.5
Hexachlorobenzene	ND	390	ug/kg	1.6
Hexachlorobutadiene	ND	390	ug/kg	2.9
Hexachlorocyclopentadiene	ND	1900	ug/kg	3.4
Hexachloroethane	ND	390	ug/kg	5.7
Indeno(1,2,3-cd)pyrene	ND	390	ug/kg	2.3
Isophorone	ND	390	ug/kg	4.1
2-Methylnaphthalene	ND	390	ug/kg	1.2
2-Methylphenol	ND	390	ug/kg	7.8
4-Methylphenol	ND	390	ug/kg	6.8
Naphthalene	ND	390	ug/kg	1.0
2-Nitroaniline	ND	1900	ug/kg	6.0
3-Nitroaniline	ND	1900	ug/kg	3.7
4-Nitroaniline	ND	1900	ug/kg	4.2
Nitrobenzene	ND	390	ug/kg	7.5
2-Nitrophenol	ND	390	ug/kg	4.0
4-Nitrophenol	ND	1900	ug/kg	95
N-Nitrosodi-n-propylamine	ND	390	ug/kg	8.9
N-Nitrosodiphenylamine	ND	390	ug/kg	4.8
2,2'-oxybis(1-Chloropropane)	ND	390	ug/kg	6.1
Pentachlorophenol	ND	390	ug/kg	53
Phenanthrene	ND	390	ug/kg	1.3
Phenol	ND	390	ug/kg	6.7
Pyrene	ND	390	ug/kg	1.2
2,4,5-Trichlorophenol	ND	390	ug/kg	5.7
2,4,6-Trichlorophenol	ND	390	ug/kg	8.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	77	(42 - 110)
2-Fluorobiphenyl	74	(43 - 110)
Terphenyl-d14	81	(37 - 137)
Phenol-d5	83	(25 - 115)
2-Fluorophenol	80	(11 - 116)
2,4,6-Tribromophenol	58	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-015 Work Order #...: G1K091AA Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

TOTAL Metals

Lot-Sample #...: A4L210179-015 Matrix.....: SO
Date Sampled...: 12/20/04 16:39 Date Received..: 12/21/04
% Moisture.....: 15

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363035						
Aluminum	5660	23.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 2.7	12/28-01/04/05	G1K091AC
Arsenic	5.3	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.47	12/28-01/04/05	G1K091AX
Lead	9.0	0.35 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.27	12/28-01/04/05	G1K091A0
Antimony	0.39 B,J	7.0 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.27	12/28-01/04/05	G1K091AD
Barium	183	23.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.18	12/28-01/04/05	G1K091AE
Selenium	0.43 B	0.59 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.32	12/28-01/04/05	G1K091A1
Beryllium	0.17 B	0.59 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.036	12/28-01/04/05	G1K091AF
Thallium	ND	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.41	12/28-01/04/05	G1K091A2
Cadmium	0.20 B	0.59 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.027	12/28-01/04/05	G1K091AG
Calcium	13000	585 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 17.6	12/28-01/04/05	G1K091AH
Chromium	10.3	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.14	12/28-01/04/05	G1K091AJ
Cobalt	4.8 B	5.9 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.12	12/28-01/04/05	G1K091AK
Copper	11.8	2.9 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.19	12/28-01/04/05	G1K091AL
Iron	9460 J	11.7 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 5.0	12/28-01/04/05	G1K091AM

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

TOTAL Metals

Lot-Sample #...: A4L210179-015 **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	**3810**	**585**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AN**
		Dilution Factor: 1		MDL.....: 2.5		
Manganese	**247**	**1.8**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AP**
		Dilution Factor: 1		MDL.....: 0.36		
Nickel	**12.4**	**4.7**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AQ**
		Dilution Factor: 1		MDL.....: 0.20		
Potassium	**1160**	**585**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AR**
		Dilution Factor: 1		MDL.....: 4.2		
Silver	ND	1.2	mg/kg	SW846 6010B	12/28-01/04/05	G1K091AT
		Dilution Factor: 1		MDL.....: 0.13		
Sodium	**267 B**	**585**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AU**
		Dilution Factor: 1		MDL.....: 82.0		
Vanadium	**16.6**	**5.9**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AV**
		Dilution Factor: 1		MDL.....: 0.13		
Zinc	**38.5**	**2.3**	**mg/kg**	**SW846 6010B**	**12/28-01/04/05**	**G1K091AW**
		Dilution Factor: 1		MDL.....: 1.0		
Mercury	**0.013 B**	**0.12**	**mg/kg**	**SW846 7471A**	**12/28-01/03/05**	**G1K091A3**
		Dilution Factor: 1		MDL.....: 0.0053		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-115

General Chemistry

Lot-Sample #...: A4L210179-015 **Work Order #...:** G1K09 **Matrix.....:** SO
Date Sampled...: 12/20/04 16:39 **Date Received..:** 12/21/04
% Moisture.....: 15

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**85.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/29-12/30/04**	**4364279**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

GC/MS Volatiles

Lot-Sample #...: A4L210179-016 **Work Order #...:** G1K1D1AG **Matrix.....:** SO
Date Sampled...: 12/20/04 17:15 **Date Received..:** 12/21/04
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 0.96
% Moisture.....: 27 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
cis-1,2-Dichloroethene	ND	6.5	ug/kg	1.2
trans-1,2-Dichloroethene	ND	6.5	ug/kg	0.99
Chloromethane	ND	6.5	ug/kg	2.4
Bromomethane	ND	6.5	ug/kg	1.8
Vinyl chloride	ND	6.5	ug/kg	1.6
Chloroethane	ND	6.5	ug/kg	1.8
Methylene chloride	ND	6.5	ug/kg	1.6
Acetone	**9.2 J**	**26**	**ug/kg**	**7.6**
Carbon disulfide	ND	6.5	ug/kg	1.3
1,1-Dichloroethene	ND	6.5	ug/kg	1.1
1,1-Dichloroethane	ND	6.5	ug/kg	0.88
Chloroform	ND	6.5	ug/kg	0.93
1,2-Dichloroethane	ND	6.5	ug/kg	0.78
2-Butanone	ND	26	ug/kg	3.5
1,1,1-Trichloroethane	ND	6.5	ug/kg	0.90
Carbon tetrachloride	ND	6.5	ug/kg	0.84
Bromodichloromethane	ND	6.5	ug/kg	0.92
1,2-Dichloropropane	ND	6.5	ug/kg	0.81
cis-1,3-Dichloropropene	ND	6.5	ug/kg	0.82
Trichloroethene	ND	6.5	ug/kg	1.0
Dibromochloromethane	ND	6.5	ug/kg	0.78
1,1,2-Trichloroethane	ND	6.5	ug/kg	0.65
Benzene	ND	6.5	ug/kg	0.90
trans-1,3-Dichloropropene	ND	6.5	ug/kg	0.86
Bromoform	ND	6.5	ug/kg	0.94
4-Methyl-2-pentanone	ND	26	ug/kg	2.1
2-Hexanone	ND	26	ug/kg	2.0
Tetrachloroethene	ND	6.5	ug/kg	1.6
1,1,2,2-Tetrachloroethane	ND	6.5	ug/kg	1.1
Toluene	ND	6.5	ug/kg	0.94
Chlorobenzene	ND	6.5	ug/kg	1.4
Ethylbenzene	ND	6.5	ug/kg	1.6
Styrene	ND	6.5	ug/kg	1.4
Xylenes (total)	ND	13	ug/kg	5.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(59 - 138)
1,2-Dichloroethane-d4	91	(61 - 130)
Toluene-d8	106	(60 - 143)
4-Bromofluorobenzene	93	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

GC/MS Volatiles

Lot-Sample #...: A4L210179-016 Work Order #...: G1K1D1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-016 **Work Order #...:** G1K1D1AK **Matrix.....:** SO
Date Sampled...: 12/20/04 17:15 **Date Received..:** 12/21/04
Prep Date.....: 12/21/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4356414
Dilution Factor: 1
% Moisture.....: 27 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	450	ug/kg	1.3
Acenaphthylene	ND	450	ug/kg	1.9
Acetophenone	ND	450	ug/kg	7.5
Anthracene	ND	450	ug/kg	3.1
Atrazine	ND	450	ug/kg	15
Benzo(a)anthracene	ND	450	ug/kg	1.9
Benzo(a)pyrene	ND	450	ug/kg	3.1
Benzo(b)fluoranthene	ND	450	ug/kg	3.1
Benzo(ghi)perylene	ND	450	ug/kg	2.5
Benzo(k)fluoranthene	ND	450	ug/kg	3.1
Benzaldehyde	ND	450	ug/kg	9.4
1,1'-Biphenyl	ND	450	ug/kg	9.8
bis(2-Chloroethoxy) methane	ND	450	ug/kg	22
bis(2-Chloroethyl)-ether	ND	450	ug/kg	5.6
bis(2-Ethylhexyl) phthalate	ND	450	ug/kg	22
4-Bromophenyl phenyl ether	ND	450	ug/kg	6.4
Butyl benzyl phthalate	ND	450	ug/kg	5.0
Caprolactam	ND	450	ug/kg	11
Carbazole	ND	450	ug/kg	13
4-Chloroaniline	ND	450	ug/kg	7.1
4-Chloro-3-methylphenol	ND	450	ug/kg	69
2-Chloronaphthalene	ND	450	ug/kg	8.6
2-Chlorophenol	ND	450	ug/kg	4.9
4-Chlorophenyl phenyl ether	ND	450	ug/kg	4.9
Chrysene	ND	450	ug/kg	1.3
Dibenz(a,h)anthracene	ND	450	ug/kg	2.0
Dibenzofuran	ND	450	ug/kg	1.1
3,3'-Dichlorobenzidine	ND	2200	ug/kg	6.7
2,4-Dichlorophenol	ND	450	ug/kg	7.2
Diethyl phthalate	ND	450	ug/kg	8.4
2,4-Dimethylphenol	ND	450	ug/kg	9.3
Dimethyl phthalate	ND	450	ug/kg	8.7
Di-n-butyl phthalate	ND	450	ug/kg	6.8

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-016 **Work Order #...:** G1K1D1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg	64
2,4-Dinitrophenol	ND	2200	ug/kg	56
2,4-Dinitrotoluene	ND	450	ug/kg	7.8
2,6-Dinitrotoluene	ND	450	ug/kg	7.9
Di-n-octyl phthalate	ND	450	ug/kg	15
Fluoranthene	ND	450	ug/kg	1.3
Fluorene	ND	450	ug/kg	1.8
Hexachlorobenzene	ND	450	ug/kg	1.9
Hexachlorobutadiene	ND	450	ug/kg	3.4
Hexachlorocyclopentadiene	ND	2200	ug/kg	4.0
Hexachloroethane	ND	450	ug/kg	6.7
Indeno(1,2,3-cd)pyrene	ND	450	ug/kg	2.7
Isophorone	ND	450	ug/kg	4.8
2-Methylnaphthalene	ND	450	ug/kg	1.3
2-Methylphenol	ND	450	ug/kg	9.1
4-Methylphenol	ND	450	ug/kg	7.9
Naphthalene	ND	450	ug/kg	1.2
2-Nitroaniline	ND	2200	ug/kg	6.9
3-Nitroaniline	ND	2200	ug/kg	4.4
4-Nitroaniline	ND	2200	ug/kg	4.9
Nitrobenzene	ND	450	ug/kg	8.7
2-Nitrophenol	ND	450	ug/kg	4.6
4-Nitrophenol	ND	2200	ug/kg	110
N-Nitrosodi-n-propylamine	ND	450	ug/kg	10
N-Nitrosodiphenylamine	ND	450	ug/kg	5.6
2,2'-oxybis(1-Chloropropane)	ND	450	ug/kg	7.1
Pentachlorophenol	ND	450	ug/kg	61
Phenanthrene	ND	450	ug/kg	1.5
Phenol	ND	450	ug/kg	7.8
Pyrene	ND	450	ug/kg	1.4
2,4,5-Trichlorophenol	ND	450	ug/kg	6.7
2,4,6-Trichlorophenol	ND	450	ug/kg	9.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	67	(42 - 110)
2-Fluorobiphenyl	57	(43 - 110)
Terphenyl-d14	76	(37 - 137)
Phenol-d5	66	(25 - 115)
2-Fluorophenol	66	(11 - 116)
2,4,6-Tribromophenol	59	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-016 Work Order #...: G1K1D1AK Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

TOTAL Metals

Lot-Sample #...: A4L210179-016 Matrix.....: SO
Date Sampled...: 12/20/04 17:15 Date Received..: 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363035						
Aluminum	5690	27.3	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AL
		Dilution Factor: 1		MDL.....: 3.1		
Arsenic	3.9	1.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A7
		Dilution Factor: 1		MDL.....: 0.55		
Lead	9.3	0.41	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AA
		Dilution Factor: 1		MDL.....: 0.31		
Antimony	0.51 B,J	8.2	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AM
		Dilution Factor: 1		MDL.....: 0.31		
Barium	205	27.3	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AN
		Dilution Factor: 1		MDL.....: 0.20		
Selenium	ND	0.68	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AC
		Dilution Factor: 1		MDL.....: 0.37		
Beryllium	0.14 B	0.68	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AP
		Dilution Factor: 1		MDL.....: 0.042		
Thallium	ND	1.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AD
		Dilution Factor: 1		MDL.....: 0.48		
Cadmium	0.15 B	0.68	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AQ
		Dilution Factor: 1		MDL.....: 0.031		
Calcium	21200	681	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AR
		Dilution Factor: 1		MDL.....: 20.4		
Chromium	10.7	1.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AT
		Dilution Factor: 1		MDL.....: 0.16		
Cobalt	6.7 B	6.8	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AU
		Dilution Factor: 1		MDL.....: 0.14		
Copper	12.3	3.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AV
		Dilution Factor: 1		MDL.....: 0.22		
Iron	12900 J	13.6	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AW
		Dilution Factor: 1		MDL.....: 5.9		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

TOTAL Metals

Lot-Sample #...: A4L210179-016 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	8270	681	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1AX
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	274	2.0	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A0
		Dilution Factor: 1		MDL.....: 0.42		
Nickel	16.9	5.5	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A1
		Dilution Factor: 1		MDL.....: 0.23		
Potassium	1530	681	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A2
		Dilution Factor: 1		MDL.....: 4.9		
Silver	ND	1.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A3
		Dilution Factor: 1		MDL.....: 0.15		
Sodium	121 B	681	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A4
		Dilution Factor: 1		MDL.....: 95.4		
Vanadium	18.8	6.8	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A5
		Dilution Factor: 1		MDL.....: 0.15		
Zinc	47.7	2.7	mg/kg	SW846 6010B	12/28-01/04/05	G1K1D1A6
		Dilution Factor: 1		MDL.....: 1.2		
Mercury	0.0099 B	0.14	mg/kg	SW846 7471A	12/28-01/03/05	G1K1D1AE
		Dilution Factor: 1		MDL.....: 0.0061		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-116

General Chemistry

Lot-Sample #...: A4L210179-016 **Work Order #...:** G1K1D **Matrix.....:** SO
Date Sampled...: 12/20/04 17:15 **Date Received..:** 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**73.4**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/29-12/30/04**	**4364279**
	Dilution Factor: 1			MDL.....: 10.0		

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

GC/MS Volatiles

Lot-Sample #...: A4L210179-017 **Work Order #...:** G1K1F1AQ **Matrix.....:** SO
Date Sampled...: 12/20/04 17:35 **Date Received..:** 12/21/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5004223
Dilution Factor: 0.91
% Moisture.....: 27 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/kg	3.4
Benzene	ND	6.3	ug/kg	0.29
Bromodichloromethane	ND	6.3	ug/kg	0.60
Bromoform	ND	6.3	ug/kg	0.82
Bromomethane	ND	6.3	ug/kg	0.77
2-Butanone	ND	25	ug/kg	1.3
Carbon disulfide	ND	6.3	ug/kg	0.25
Carbon tetrachloride	ND	6.3	ug/kg	0.56
Chlorobenzene	ND	6.3	ug/kg	0.35
Dibromochloromethane	ND	6.3	ug/kg	0.45
Chloroethane	ND	6.3	ug/kg	0.68
Chloroform	ND	6.3	ug/kg	0.50
Chloromethane	ND	6.3	ug/kg	0.31
1,1-Dichloroethane	ND	6.3	ug/kg	0.40
1,2-Dichloroethane	ND	6.3	ug/kg	0.60
1,1-Dichloroethene	ND	6.3	ug/kg	0.75
cis-1,2-Dichloroethene	ND	6.3	ug/kg	0.51
trans-1,2-Dichloroethene	ND	6.3	ug/kg	0.69
1,2-Dichloropropane	ND	6.3	ug/kg	0.44
cis-1,3-Dichloropropene	ND	6.3	ug/kg	0.44
trans-1,3-Dichloropropene	ND	6.3	ug/kg	0.44
Ethylbenzene	ND	6.3	ug/kg	0.66
2-Hexanone	ND	25	ug/kg	1.1
Methylene chloride	ND	6.3	ug/kg	1.6
4-Methyl-2-pentanone	ND	25	ug/kg	0.68
Styrene	ND	6.3	ug/kg	0.25
1,1,2,2-Tetrachloroethane	ND	6.3	ug/kg	0.58
Tetrachloroethene	**190**	**6.3**	**ug/kg**	**1.0**
Toluene	**0.91 J**	**6.3**	**ug/kg**	**0.36**
1,1,1-Trichloroethane	ND	6.3	ug/kg	0.95
1,1,2-Trichloroethane	ND	6.3	ug/kg	0.51
Trichloroethene	**1.0 J**	**6.3**	**ug/kg**	**0.51**
Vinyl chloride	ND	6.3	ug/kg	0.55
Xylenes (total)	ND	13	ug/kg	0.95

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	102	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
Toluene-d8	115	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

GC/MS Volatiles

Lot-Sample #...: A4L210179-017 Work Order #...: G1K1F1AQ Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-017 Work Order #...: G1K1F1AU Matrix.....: SO
Date Sampled...: 12/20/04 17:35 Date Received..: 12/21/04
Prep Date.....: 12/22/04 Analysis Date..: 12/28/04
Prep Batch #...: 4357051
Dilution Factor: 1
% Moisture.....: 27 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	450	ug/kg	1.3
Acenaphthylene	ND	450	ug/kg	1.9
Acetophenone	ND	450	ug/kg	7.6
Anthracene	ND	450	ug/kg	3.2
Atrazine	ND	450	ug/kg	15
Benzo(a)anthracene	ND	450	ug/kg	1.9
Benzo(a)pyrene	ND	450	ug/kg	3.2
Benzo(b)fluoranthene	ND	450	ug/kg	3.2
Benzo(ghi)perylene	ND	450	ug/kg	2.5
Benzo(k)fluoranthene	ND	450	ug/kg	3.2
Benzaldehyde	ND	450	ug/kg	9.5
1,1'-Biphenyl	ND	450	ug/kg	9.9
bis(2-Chloroethoxy) methane	ND	450	ug/kg	22
bis(2-Chloroethyl)-ether	ND	450	ug/kg	5.7
bis(2-Ethylhexyl) phthalate	**51 J**	**450**	**ug/kg**	**22**
4-Bromophenyl phenyl ether	ND	450	ug/kg	6.5
Butyl benzyl phthalate	ND	450	ug/kg	5.1
Caprolactam	**50 J,B**	**450**	**ug/kg**	**11**
Carbazole	ND	450	ug/kg	13
4-Chloroaniline	ND	450	ug/kg	7.2
4-Chloro-3-methylphenol	ND	450	ug/kg	70
2-Chloronaphthalene	ND	450	ug/kg	8.7
2-Chlorophenol	ND	450	ug/kg	5.0
4-Chlorophenyl phenyl ether	ND	450	ug/kg	5.0
Chrysene	ND	450	ug/kg	1.4
Dibenz(a,h)anthracene	ND	450	ug/kg	2.1
Dibenzofuran	ND	450	ug/kg	1.1
3,3'-Dichlorobenzidine	ND	2200	ug/kg	6.8
2,4-Dichlorophenol	ND	450	ug/kg	7.3
Diethyl phthalate	ND	450	ug/kg	8.5
2,4-Dimethylphenol	**48 J**	**450**	**ug/kg**	**9.4**
Dimethyl phthalate	ND	450	ug/kg	8.8
Di-n-butyl phthalate	ND	450	ug/kg	6.9

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-017 **Work Order #...:** G1K1F1AU **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg	65
2,4-Dinitrophenol	ND	2200	ug/kg	57
2,4-Dinitrotoluene	ND	450	ug/kg	7.9
2,6-Dinitrotoluene	ND	450	ug/kg	8.0
Di-n-octyl phthalate	ND	450	ug/kg	15
Fluoranthene	ND	450	ug/kg	1.3
Fluorene	ND	450	ug/kg	1.8
Hexachlorobenzene	ND	450	ug/kg	1.9
Hexachlorobutadiene	ND	450	ug/kg	3.4
Hexachlorocyclopenta-diene	ND	2200	ug/kg	4.0
Hexachloroethane	ND	450	ug/kg	6.8
Indeno(1,2,3-cd)pyrene	ND	450	ug/kg	2.8
Isophorone	ND	450	ug/kg	4.8
2-Methylnaphthalene	ND	450	ug/kg	1.4
2-Methylphenol	ND	450	ug/kg	9.2
4-Methylphenol	ND	450	ug/kg	8.0
Naphthalene	ND	450	ug/kg	1.2
2-Nitroaniline	ND	2200	ug/kg	7.0
3-Nitroaniline	ND	2200	ug/kg	4.4
4-Nitroaniline	ND	2200	ug/kg	5.0
Nitrobenzene	ND	450	ug/kg	8.8
2-Nitrophenol	ND	450	ug/kg	4.7
4-Nitrophenol	ND	2200	ug/kg	110
N-Nitrosodi-n-propyl-amine	ND	450	ug/kg	10
N-Nitrosodiphenylamine	ND	450	ug/kg	5.7
2,2'-oxybis(1-Chloropropane)	ND	450	ug/kg	7.2
Pentachlorophenol	ND	450	ug/kg	62
Phenanthrene	ND	450	ug/kg	1.5
Phenol	ND	450	ug/kg	7.9
Pyrene	ND	450	ug/kg	1.4
2,4,5-Trichloro-phenol	ND	450	ug/kg	6.8
2,4,6-Trichloro-phenol	ND	450	ug/kg	9.4

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	86	(42 - 110)
2-Fluorobiphenyl	76	(43 - 110)
Terphenyl-d14	90	(37 - 137)
Phenol-d5	84	(25 - 115)
2-Fluorophenol	87	(11 - 116)
2,4,6-Tribromophenol	69	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

GC/MS Semivolatiles

Lot-Sample #...: A4L210179-017 Work Order #...: G1K1F1AU Matrix.....: SO

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

General Chemistry

Lot-Sample #...: A4L210179-017 Work Order #...: G1K1F Matrix.....: SO
Date Sampled...: 12/20/04 17:35 Date Received..: 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	72.6	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279

Dilution Factor: 1 MDL.....: 10.0

SEVERN TRENT STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G10GN1AA **Matrix.....:** SOLID
MB Lot-Sample #: A4L290000-523

Prep Date.....: 12/22/04
Analysis Date..: 12/28/04 **Prep Batch #...:** 4364523
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**120 J**	**1000**	**ug/kg**	**SW846 8260B**
Benzene	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	ND	250	ug/kg	SW846 8260B
2-Butanone	ND	1000	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Dibromochloromethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	250	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Chloromethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1000	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Toluene	**14 J**	**250**	**ug/kg**	**SW846 8260B**
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	500	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
1,2-Dichloroethane-d4	100	(61 - 130)
Toluene-d8	77	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G10GN1AA **Matrix.....:** SOLID

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 #...: A4L210179 **Work Order #...:** G12WM1AA **Matrix.....:** SOLID
MB Lot-Sample #: A5A030000-069

Prep Date.....: 12/31/04
Analysis Date..: 12/31/04 **Prep Batch #...:** 5003069
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
Acetone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	97	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
Toluene-d8	104	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G12WM1AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G14C81AA **Matrix.....:** SOLID
MB Lot-Sample #: A5A040000-223

Prep Date.....: 01/03/05
Analysis Date..: 01/03/05 **Prep Batch #...:** 5004223
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(59 - 138)
1,2-Dichloroethane-d4	96	(61 - 130)
Toluene-d8	103	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G14C81AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G15W71AA **Matrix.....:** SOLID
MB Lot-Sample #: A5A050000-200

Prep Date.....: 01/03/05
Analysis Date..: 01/03/05 **Prep Batch #...:** 5005200
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G15W71AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1LRA1AA **Matrix.....:** SOLID
MB Lot-Sample #: A4L210000-414

Prep Date.....: 12/21/04
Analysis Date..: 12/28/04 **Prep Batch #...:** 4356414
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Caprolactam	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1LRA1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(42 - 110)
2-Fluorobiphenyl	72	(43 - 110)
Terphenyl-d14	93	(37 - 137)
Phenol-d5	79	(25 - 115)
2-Fluorophenol	78	(11 - 116)
2,4,6-Tribromophenol	61	(35 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1MHJ1AA **Matrix.....:** SOLID
MB Lot-Sample #: A4L220000-051

Prep Date.....: 12/22/04
Analysis Date..: 12/28/04 **Prep Batch #...:** 4357051
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Caprolactam	**26 J**	**330**	**ug/kg**	**SW846 8270C**
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1MHJ1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	85	(42 - 110)
2-Fluorobiphenyl	78	(43 - 110)
Terphenyl-d14	93	(37 - 137)
Phenol-d5	89	(25 - 115)
2-Fluorophenol	90	(11 - 116)
2,4,6-Tribromophenol	64	(35 - 116)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1MHJ1AA **Matrix.....:** SOLID

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

TOTAL Metals

Client Lot #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-035 **Prep Batch #...:** 4363035						
Aluminum	ND	20.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AK
		Dilution Factor: 1				
Arsenic	ND	1.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AE
		Dilution Factor: 1				
Antimony	**0.51 B**	**6.0**	**mg/kg**	**SW846 6010B**	**12/28-01/03/05**	**G1TXN1AL**
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AG
		Dilution Factor: 1				
Barium	ND	20.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AM
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AH
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AN
		Dilution Factor: 1				
Thallium	ND	1.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AJ
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AP
		Dilution Factor: 1				
Calcium	ND	500	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AQ
		Dilution Factor: 1				
Chromium	ND	1.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AC
		Dilution Factor: 1				
Cobalt	ND	5.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1CU
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AR
		Dilution Factor: 1				
Iron	**4.5 B**	**10.0**	**mg/kg**	**SW846 6010B**	**12/28-01/03/05**	**G1TXN1AT**
		Dilution Factor: 1				
Magnesium	ND	500	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AU
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	1.5	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AV
		Dilution Factor: 1				
Nickel	ND	4.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AW
		Dilution Factor: 1				
Potassium	ND	500	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AX
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1A0
		Dilution Factor: 1				
Sodium	ND	500	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1A1
		Dilution Factor: 1				
Vanadium	ND	5.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1A2
		Dilution Factor: 1				
Zinc	ND	2.0	mg/kg	SW846 6010B	12/28-01/03/05	G1TXN1AA
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	12/28-01/03/05	G1TXN1AD
		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 #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)		Work Order #: G154G1AA		MB Lot-Sample #: A5A050000-241		
	ND	0.10	%	ASTM D2974	01/05/05	5005241
		Dilution Factor: 1				
Nitrate as N		Work Order #: G13VN1AA		MB Lot-Sample #: A5A040000-039		
	ND	5.0	mg/kg	MCAWW 300.0A	01/03/05	5004039
		Dilution Factor: 1				
Nitrogen, as Ammonia		Work Order #: G14121AA		MB Lot-Sample #: A5A040000-450		
	ND	2.0	mg/kg	MCAWW 350.3	01/04/05	5004450
		Dilution Factor: 1				
Percent Solids		Work Order #: G1XRP1AA		MB Lot-Sample #: A4L290000-279		
	ND	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364279
		Dilution Factor: 1				
Phosphate as P, Ortho		Work Order #: G12AT1AA		MB Lot-Sample #: A4L310000-010		
	0.1 B	**1.0**	**mg/kg**	**MCAWW 365.2**	**12/30-12/31/04**	**4366010**
		Dilution Factor: 1				
Total Kjeldahl Nitrogen		Work Order #: G14101AA		MB Lot-Sample #: A5A040000-445		
	ND	150	mg/kg	MCAWW 351.3	01/04/05	5004445
		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.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4L210179 **Work Order #...:** G10GN1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A4L290000-523 G10GN1AD-LCSD
Prep Date.....: 12/22/04 **Analysis Date..:** 12/28/04
Prep Batch #...: 4364523
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**95**	**(75 - 129)**			**SW846 8260B**
	96	**(75 - 129)**	**1.4**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**96**	**(75 - 127)**			**SW846 8260B**
	94	**(75 - 127)**	**1.5**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**85**	**(55 - 142)**			**SW846 8260B**
	87	**(55 - 142)**	**2.5**	**(0-27)**	**SW846 8260B**
Toluene	**88**	**(71 - 130)**			**SW846 8260B**
	88	**(71 - 130)**	**0.70**	**(0-24)**	**SW846 8260B**
Trichloroethene	**97**	**(70 - 131)**			**SW846 8260B**
	97	**(70 - 131)**	**0.42**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	94	(59 - 138)
	94	(59 - 138)
1,2-Dichloroethane-d4	109	(61 - 130)
	104	(61 - 130)
Toluene-d8	79	(60 - 143)
	79	(60 - 143)
4-Bromofluorobenzene	92	(47 - 158)
	93	(47 - 158)

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 #...: A4L210179 **Work Order #...:** G12WM1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5A030000-069 G12WM1AD-LCSD
Prep Date.....: 12/31/04 **Analysis Date..:** 12/31/04
Prep Batch #...: 5003069
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	**88**	**(55 - 142)**			**SW846 8260B**
	94	**(55 - 142)**	**6.6**	**(0-27)**	**SW846 8260B**
Trichloroethene	**84**	**(70 - 131)**			**SW846 8260B**
	86	**(70 - 131)**	**3.0**	**(0-23)**	**SW846 8260B**
Benzene	**84**	**(75 - 129)**			**SW846 8260B**
	86	**(75 - 129)**	**2.4**	**(0-20)**	**SW846 8260B**
Toluene	**85**	**(71 - 130)**			**SW846 8260B**
	85	**(71 - 130)**	**0.62**	**(0-24)**	**SW846 8260B**
Chlorobenzene	**87**	**(75 - 127)**			**SW846 8260B**
	90	**(75 - 127)**	**3.3**	**(0-22)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(59 - 138)
	98	(59 - 138)
1,2-Dichloroethane-d4	89	(61 - 130)
	94	(61 - 130)
Toluene-d8	101	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	102	(47 - 158)

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 #...: A4L210179 **Work Order #...:** G14C81AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5A040000-223 G14C81AD-LCSD
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5004223
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**83**	**(75 - 129)**			**SW846 8260B**
	87	**(75 - 129)**	**5.6**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**86**	**(75 - 127)**			**SW846 8260B**
	90	**(75 - 127)**	**4.9**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**84**	**(55 - 142)**			**SW846 8260B**
	90	**(55 - 142)**	**6.2**	**(0-27)**	**SW846 8260B**
Toluene	**82**	**(71 - 130)**			**SW846 8260B**
	87	**(71 - 130)**	**5.9**	**(0-24)**	**SW846 8260B**
Trichloroethene	**84**	**(70 - 131)**			**SW846 8260B**
	87	**(70 - 131)**	**3.2**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(59 - 138)
	100	(59 - 138)
1,2-Dichloroethane-d4	95	(61 - 130)
	94	(61 - 130)
Toluene-d8	101	(60 - 143)
	102	(60 - 143)
4-Bromofluorobenzene	99	(47 - 158)
	100	(47 - 158)

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 #...: A4L210179 **Work Order #...:** G15W71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5A050000-200 G15W71AD-LCSD
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**86**	**(75 - 129)**			**SW846 8260B**
	87	**(75 - 129)**	**1.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 127)**			**SW846 8260B**
	99	**(75 - 127)**	**0.45**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**95**	**(55 - 142)**			**SW846 8260B**
	95	**(55 - 142)**	**0.77**	**(0-27)**	**SW846 8260B**
Toluene	**96**	**(71 - 130)**			**SW846 8260B**
	97	**(71 - 130)**	**0.80**	**(0-24)**	**SW846 8260B**
Trichloroethene	**89**	**(70 - 131)**			**SW846 8260B**
	88	**(70 - 131)**	**0.35**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
	82	(59 - 138)
1,2-Dichloroethane-d4	77	(61 - 130)
	75	(61 - 130)
Toluene-d8	91	(60 - 143)
	88	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	93	(47 - 158)

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 #...: A4L210179 **Work Order #...:** G1LRA1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A4L210000-414 G1LRA1AD-LCSD
Prep Date.....: 12/21/04 **Analysis Date..:** 12/27/04
Prep Batch #...: 4356414
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	67	(44 - 110)			SW846 8270C
	69	(44 - 110)	3.0	(0-44)	SW846 8270C
1,2,4-Trichloro-benzene	68	(45 - 110)			SW846 8270C
	67	(45 - 110)	1.0	(0-54)	SW846 8270C
1,4-Dichlorobenzene	73	(38 - 110)			SW846 8270C
	77	(38 - 110)	6.6	(0-59)	SW846 8270C
4-Chloro-3-methylphenol	65	(43 - 110)			SW846 8270C
	67	(43 - 110)	2.9	(0-55)	SW846 8270C
2-Chlorophenol	63	(43 - 110)			SW846 8270C
	71	(43 - 110)	11	(0-54)	SW846 8270C
2,4-Dinitrotoluene	74	(48 - 111)			SW846 8270C
	79	(48 - 111)	5.8	(0-45)	SW846 8270C
4-Nitrophenol	37	(22 - 128)			SW846 8270C
	52	(22 - 128)	35	(0-64)	SW846 8270C
N-Nitrosodi-n-propyl-amine	76	(38 - 110)			SW846 8270C
	81	(38 - 110)	5.5	(0-50)	SW846 8270C
Pentachlorophenol	46	(10 - 123)			SW846 8270C
	61	(10 - 123)	29	(0-87)	SW846 8270C
Phenol	62	(35 - 110)			SW846 8270C
	72	(35 - 110)	15	(0-50)	SW846 8270C
Pyrene	75	(42 - 122)			SW846 8270C
	76	(42 - 122)	1.2	(0-66)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(42 - 110)
	80	(42 - 110)
2-Fluorobiphenyl	73	(43 - 110)
	75	(43 - 110)
Terphenyl-d14	85	(37 - 137)
	86	(37 - 137)
Phenol-d5	78	(25 - 115)
	87	(25 - 115)
2-Fluorophenol	74	(11 - 116)
	81	(11 - 116)
2,4,6-Tribromophenol	73	(35 - 116)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1LRA1AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A4L210000-414 G1LRA1AD-LCSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
	81	(35 - 116)

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 #...: A4L210179 **Work Order #...:** G1MHJ1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A4L220000-051
Prep Date.....: 12/22/04 **Analysis Date..:** 12/28/04
Prep Batch #...: 4357051
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**72**	**(44 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**70**	**(45 - 110)**	**SW846 8270C**
1,4-Dichlorobenzene	**87**	**(38 - 110)**	**SW846 8270C**
4-Chloro-3-methylphenol	**78**	**(43 - 110)**	**SW846 8270C**
2-Chlorophenol	**74**	**(43 - 110)**	**SW846 8270C**
2,4-Dinitrotoluene	**78**	**(48 - 111)**	**SW846 8270C**
4-Nitrophenol	**64**	**(22 - 128)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**86**	**(38 - 110)**	**SW846 8270C**
Pentachlorophenol	**70**	**(10 - 123)**	**SW846 8270C**
Phenol	**74**	**(35 - 110)**	**SW846 8270C**
Pyrene	**89**	**(42 - 122)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	76	(42 - 110)
2-Fluorobiphenyl	70	(43 - 110)
Terphenyl-d14	90	(37 - 137)
Phenol-d5	77	(25 - 115)
2-Fluorophenol	77	(11 - 116)
2,4,6-Tribromophenol	71	(35 - 116)

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 #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-035 **Prep Batch #...:** 4363035					
Arsenic	85	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1A6
Aluminum	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CC
Lead	87	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1A8
Antimony	87	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CD
Selenium	85	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1A9
Barium	86	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CE
Thallium	87	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CA
Beryllium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CF
Cadmium	89	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CG
Calcium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CH
Chromium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1A4
Cobalt	88	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CV
Copper	91	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CJ
Iron	97	(73 - 137)	SW846 6010B Dilution Factor: 1	12/28-01/03/05	G1TXN1CK

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	89	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CL
		Dilution Factor: 1			
Manganese	89	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CM
		Dilution Factor: 1			
Nickel	89	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CN
		Dilution Factor: 1			
Potassium	92	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CP
		Dilution Factor: 1			
Silver	97	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CQ
		Dilution Factor: 1			
Sodium	88	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CR
		Dilution Factor: 1			
Vanadium	89	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1CT
		Dilution Factor: 1			
Zinc	93	(80 - 120)	SW846 6010B	12/28-01/03/05	G1TXN1A3
		Dilution Factor: 1			
Mercury	97	(73 - 123)	SW846 7471A	12/28-01/03/05	G1TXN1A5
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrate as N		WO#:G13VN1AC-LCS/G13VN1AD-LCSD				LCS Lot-Sample#: A5A040000-039	
	98	(90 - 110)			MCAWW 300.0A	01/03/05	5004039
	98	(90 - 110)	0.40	(0-20)	MCAWW 300.0A	01/03/05	5004039

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)		Work Order #: G1TLT1AA	LCS Lot-Sample#: A4L270000-422		
	100	(97 - 103)	SW846 9045C	12/22/04	4362422
		Dilution Factor: 1			
pH (solid)		Work Order #: G1TL11AA	LCS Lot-Sample#: A4L270000-439		
	100	(97 - 103)	SW846 9045C	12/22/04	4362439
		Dilution Factor: 1			
Nitrogen, as Ammonia		Work Order #: G14121AC	LCS Lot-Sample#: A5A040000-450		
	101	(85 - 110)	MCAWW 350.3	01/04/05	5004450
		Dilution Factor: 1			
Phosphate as P, Ortho		Work Order #: G12AT1AC	LCS Lot-Sample#: A4L310000-010		
	95	(90 - 110)	MCAWW 365.2	12/30-12/31/04	4366010
		Dilution Factor: 1			
Total Kjeldahl Nitrogen		Work Order #: G14101AC	LCS Lot-Sample#: A5A040000-445		
	98	(70 - 133)	MCAWW 351.3	01/04/05	5004445
		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 #...: A4L210179 **Work Order #...:** G1NDP1D0-MS **Matrix.....:** SOLID
MS Lot-Sample #: A4L220198-001 G1NDP1D1-MSD
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.86 **% Moisture.....:** 26

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**79**	**(55 - 138)**			**SW846 8260B**
	81	**(55 - 138)**	**7.0**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**87**	**(49 - 139)**			**SW846 8260B**
	87	**(49 - 139)**	**5.1**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**85**	**(43 - 147)**			**SW846 8260B**
	95	**(43 - 147)**	**17**	**(0-27)**	**SW846 8260B**
Toluene	**90**	**(46 - 147)**			**SW846 8260B**
	92	**(46 - 147)**	**7.3**	**(0-24)**	**SW846 8260B**
Trichloroethene	**77**	**(46 - 143)**			**SW846 8260B**
	78	**(46 - 143)**	**6.5**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
	74	(61 - 130)
Toluene-d8	87	(60 - 143)
	88	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)
	87	(47 - 158)

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 Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1K3W1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A4L210192-001 G1K3W1CG-MSD
Date Sampled...: 12/17/04 13:00 **Date Received..:** 12/21/04
Prep Date.....: 12/22/04 **Analysis Date..:** 12/29/04
Prep Batch #...: 4357051
Dilution Factor: 1 **% Moisture.....:** 18

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	79	(13 - 133)			SW846 8270C
	71	(13 - 133)	11	(0-44)	SW846 8270C
1,2,4-Trichloro-benzene	70	(16 - 121)			SW846 8270C
	67	(16 - 121)	4.4	(0-54)	SW846 8270C
1,4-Dichlorobenzene	86	(18 - 110)			SW846 8270C
	74	(18 - 110)	16	(0-59)	SW846 8270C
4-Chloro-3-methylphenol	72	(17 - 128)			SW846 8270C
	72	(17 - 128)	0.99	(0-55)	SW846 8270C
2-Chlorophenol	78	(17 - 116)			SW846 8270C
	69	(17 - 116)	12	(0-54)	SW846 8270C
2,4-Dinitrotoluene	78	(10 - 171)			SW846 8270C
	78	(10 - 171)	0.36	(0-45)	SW846 8270C
4-Nitrophenol	67	(10 - 148)			SW846 8270C
	66	(10 - 148)	1.8	(0-64)	SW846 8270C
N-Nitrosodi-n-propyl-amine	91	(12 - 128)			SW846 8270C
	82	(12 - 128)	11	(0-50)	SW846 8270C
Pentachlorophenol	67	(10 - 144)			SW846 8270C
	68	(10 - 144)	1.1	(0-87)	SW846 8270C
Phenol	77	(10 - 148)			SW846 8270C
	68	(10 - 148)	13	(0-50)	SW846 8270C
Pyrene	98	(10 - 218)			SW846 8270C
	93	(10 - 218)	5.5	(0-66)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	78	(42 - 110)
	72	(42 - 110)
2-Fluorobiphenyl	74	(43 - 110)
	66	(43 - 110)
Terphenyl-d14	81	(37 - 137)
	80	(37 - 137)
Phenol-d5	81	(25 - 115)
	70	(25 - 115)
2-Fluorophenol	79	(11 - 116)
	70	(11 - 116)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4L210179 **Work Order #...:** G1K3W1CF-MS **Matrix.....:** SOLID
MS Lot-Sample #: A4L210192-001 G1K3W1CG-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2,4,6-Tribromophenol	71	(35 - 116)
	68	(35 - 116)

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 #...: A4L210179 **Matrix.....:** SOLID
Date Sampled...: 12/17/04 14:10 **Date Received..:** 12/18/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L210119-007 **Prep Batch #...:** 4363035							
						% Moisture.....: 15	
Aluminum	NC,MSB	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1A6
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1A7
		Dilution Factor: 1					
Arsenic	80	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1AN
	80	(75 - 125)	0.0	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1AP
		Dilution Factor: 1					
Antimony	35 N	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1A9
	34 N	(75 - 125)	1.0	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CA
		Dilution Factor: 1					
Lead	80	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1AV
	80	(75 - 125)	0.11	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1AW
		Dilution Factor: 1					
Barium	86	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CD
	87	(75 - 125)	1.2	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CE
		Dilution Factor: 1					
Selenium	81	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1A0
	80	(75 - 125)	0.53	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1A1
		Dilution Factor: 1					
Beryllium	82	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CG
	80	(75 - 125)	2.5	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CH
		Dilution Factor: 1					
Thallium	80	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1A3
	79	(75 - 125)	0.59	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1A4
		Dilution Factor: 1					
Cadmium	82	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CK
	81	(75 - 125)	0.90	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CL
		Dilution Factor: 1					
Calcium	116	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CN
	221 N,*	(75 - 125)	23	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CP
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210179 **Matrix.....:** SOLID
Date Sampled...: 12/17/04 14:10 **Date Received..:** 12/18/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1AF
	100	(75 - 125)	0.55	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1AG
		Dilution Factor: 1					
Cobalt	82	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1DN
	81	(75 - 125)	0.49	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1DP
		Dilution Factor: 1					
Copper	87	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CR
	88	(75 - 125)	1.6	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CT
		Dilution Factor: 1					
Iron	NC,MSB	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1CV
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1CW
		Dilution Factor: 1					
Magnesium	83	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1C0
	143 N,*	(75 - 125)	27	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1C1
		Dilution Factor: 1					
Manganese	NC,MSB	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1C3
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1C4
		Dilution Factor: 1					
Nickel	86	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1C6
	84	(75 - 125)	1.9	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1C7
		Dilution Factor: 1					
Potassium	95	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1C9
	96	(75 - 125)	1.0	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1DA
		Dilution Factor: 1					
Silver	92	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1DD
	93	(75 - 125)	0.58	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1DE
		Dilution Factor: 1					
Sodium	84	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1DG
	84	(75 - 125)	0.43	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1DH
		Dilution Factor: 1					
Vanadium	101	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1DK
	100	(75 - 125)	0.15	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1DL
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L210179 **Matrix.....:** SOLID
Date Sampled...: 12/17/04 14:10 **Date Received..:** 12/18/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	88	(75 - 125)			SW846 6010B	12/28-01/04/05	G1KGC1AC
	89	(75 - 125)	1.3	(0-20)	SW846 6010B	12/28-01/04/05	G1KGC1AD
		Dilution Factor: 1					
Mercury	102	(10 - 199)			SW846 7471A	12/28-01/03/05	G1KGC1AJ
	100	(10 - 199)	2.1	(0-50)	SW846 7471A	12/28-01/03/05	G1KGC1AK
		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 were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

* Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Matrix.....:** SO
Date Sampled...: 12/20/04 13:20 **Date Received..:** 12/21/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammonia		WO#: G1KX81AL-MS/G1KX81AM-MSD				MS Lot-Sample #: A4L210179-005	
	82	(48 - 121)			MCAWW 350.3	01/04/05	5004450
	88	(48 - 121)	6.6	(0-20)	MCAWW 350.3	01/04/05	5004450
		Dilution Factor: 1					
Phosphate as P, Ortho		WO#: G1KX11AL-MS/G1KX11AM-MSD				MS Lot-Sample #: A4L210179-002	
	103	(81 - 121)			MCAWW 365.2	12/30-12/31/04	4366010
	97	(81 - 121)	5.1	(0-20)	MCAWW 365.2	12/30-12/31/04	4366010
		Dilution Factor: 1					
Total Kjeldahl Nitrogen		WO#: G1KXP1AM-MS/G1KXP1AN-MSD				MS Lot-Sample #: A4L210179-001	
	70	(50 - 120)			MCAWW 351.3	01/04/05	5004445
	42 N	(50 - 120)	18	(0-50)	MCAWW 351.3	01/04/05	5004445
		Dilution Factor: 1					

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

N Spiked analyte recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1K0Q-SMP G1K0Q-DUP **Matrix.....:** SO

Date Sampled...: 12/20/04 14:41 **Date Received..:** 12/21/04

% Moisture.....: 15

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #: A4L210179-010		
	8.0	7.9	No Units	0.88	(0-20)	SW846 9045C	12/22/04	4362422

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1M5V-SMP G1M5V-DUP **Matrix.....:** SOLID

Date Sampled...: 12/17/04 08:45 **Date Received..:** 12/22/04

% Moisture.....: 9.1

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #: A4L220156-009		
	8.1	8.1	No Units	0.49	(0-20)	SW846 9045C	12/22/04	4362422

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1KXP-SMP G1KXP-DUP **Matrix.....:** SO

Date Sampled...: 12/20/04 11:24 **Date Received..:** 12/21/04

% Moisture.....: 25

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH (solid)						SD Lot-Sample #:	A4L210179-001	
	7.3	7.4	No Units	2.0	(0-20)	SW846 9045C	12/22/04	4362439

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1KN9-SMP **Matrix.....:** SOLID
G1KN9-DUP
Date Sampled...: 12/20/04 15:50 **Date Received..:** 12/21/04
% Moisture.....: 17

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A4L210147-006		
	83.4	83.6	%	0.18	(0-20)	MCAWW 160.3 MOD	12/29-12/30/04	4364279

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1M0M-SMP G1M0M-DUP **Matrix.....:** SOLID

Date Sampled...: 12/16/04 09:00 **Date Received..:** 12/22/04

% Moisture.....: 7.5

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A4L220156-001		
	92.5	91.7	%	0.92	(0-20)	MCAWW 160.3 MOD	12/29-12/30/04	4364279

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L210179 **Work Order #...:** G1289-SMP **Matrix.....:** SOLID
G1289-DUP
Date Sampled...: 12/17/04 10:50 **Date Received..:** 12/29/04
% Moisture.....: 20

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Fraction of Organic Carbon (Ash)						SD Lot-Sample #: A5A030126-002		
	1.7	1.9	%	11	(0-20)	ASTM D2974	01/05/05	5005241

Dilution Factor: 1

123

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

CHAIN-OF-CUSTODY RECORD

SHIPPED TO (Laboratory Name): STL - North Canton, OHIO

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM FAIRFAX

SAMPLER'S SIGNATURE: [signature] **PRINTED NAME:** DAVE SHIELD

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TAL VOCs	NAP	pH	Fraction Organic Carbon	SVOC TAL	Total Metals	REMARKS
	12-20-04	11:24	S-122004-DS-101	Soil	6	X	X	X				NAP NATURAL Attenuation Parameters TNK, Ammonia, NO3, o-Ph PHOS
	12-20-04	1135	-102		6	X	X	X				
		1158	-103		6	X	X	X				
		1205	-104		6	X	X	X				
		1320	-105		6	X	X	X				CALL PAT Klick with Questions
		1329	-106		6	X	X	X				
		1355	-107		6	X	X	X				
		1402	-108		6	X	X	X				SSOW #095001
		1435	-109		6	X	X	X				
		1441	-110		6	X	X	X				
		1523	-111		5	X			X			
		1533	-112		5	X			X			
		1601	-113		5	X			X			
		1612	-114		6	X	[illegible]		X			-EXTRA Plastic for FOC
		16:39	-115		5	X				X	X	
			TOTAL NUMBER OF CONTAINERS		86							

RELINQUISHED BY: ① [signature]	DATE: 12-20-04 TIME: 1820	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: SHIELD / Kendrick
Cantrell

RECEIVED FOR LABORATORY BY: [signature]
DATE: 12/21/04 TIME: 10:30

12306

STL North Canton

1001-00(SOURCE)GN-CO004

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

124

SHIPPED TO (Laboratory Name): STL - North Canton OHIO

REFERENCE NUMBER: 12559-52

PROJECT NAME: GM FAIRFAX

CHAIN-OF-CUSTODY RECORD

SAMPLER'S SIGNATURE: [signature] **PRINTED NAME:** DAVE SHEILD

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: VOC	SVOC	METALS	REMARKS
	12-20-04	1915	S-122004-DS-116	Soil	5	X	X	X	CALL PAT Klick
	↓	1735	S-122004-DS-117	↓	5	X	X	X	with Questions
									SSOW # D95001
TOTAL NUMBER OF CONTAINERS					10				

RELINQUISHED BY: ① [signature]	DATE: 12-20-04 TIME: 1820	RECEIVED BY: ②	DATE: TIME:
RELINQUISHED BY: ②	DATE: TIME:	RECEIVED BY: ③	DATE: TIME:
RELINQUISHED BY: ③	DATE: TIME:	RECEIVED BY: ④	DATE: TIME:

METHOD OF SHIPMENT: **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: SHEILD / Kendrick
CANTRELL

RECEIVED FOR LABORATORY BY: [signature] 12308
DATE: 12/21/04 TIME: 10:30

1001-00(SOURCE)GN-CO004

STL North Canton

STL Cooler Receipt Form/Narrative **Lot Number:** 4L210179

North Canton Facility

Client: CRA Project: GM-Fairfax Quote#: 62183

Cooler Received on: 12/21/04 Opened on: 12/21/04 by: (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other:

STL Cooler No# See back Foam Box ☐ Client Cooler ☐ Other

1. Were custody seals on the outside of the cooler? Yes ☐ No ☒ Intact? Yes ☐ No ☐ NA ☒
   If YES, Quantity
   Were the custody seals signed and dated? Yes ☐ No ☐ NA ☒
2. Shipper's packing slip attached to this form? Yes ☒ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Did you sign the custody papers 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/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H_2O Slurry ☐

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 and/or tags be reconciled with the COC? Yes ☒ No ☐
9. Were samples at the correct pH? (record below/on back) Yes ☐ No ☐ NA ☒
10. Were correct bottles used for the tests 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 ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

√		

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 101104HNO3; Sulfuric Acid Lot # 102804-H2SO4; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*

Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant
L13	3.9°C	IR	Ice
J760	3.4°C	IR	Ice

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

SEVERN TRENT STL

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 12559-52

GM FAIRFAX I

Lot #: A4L220198

Phil Harvey

Conestoga-Rovers & Associates
8615 W. Bryn Mawr
Chicago, IL 60631

SEVERN TRENT LABORATORIES, INC.

VALIDATED BY
Project # 012559-52
Lot # A4L220198
Date 02/01/05

Amy L. McCormick
Project Manager

January 13, 2005

CASE NARRATIVE

A4L220198

The following report contains the analytical results for seven solid samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Fairfax I Site, project number 12559-52. The samples were received December 22, 2004, according to documented sample acceptance procedures.

STL 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 Susan Scrocchi on January 5, 2005. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL'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.

If you have any questions, please call the Project Manager, Amy L. McCormick, 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 3.3 and 3.8°C.

CASE NARRATIVE (continued)

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.

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.

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive of 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 S-122104-DS-118 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".

The matrix spike/matrix spike duplicate(s) for S-122104-DS-118 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.

GENERAL CHEMISTRY

The analytical results met the requirements of the laboratory's QA/QC program.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton 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.

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. STL 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. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

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. 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. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the repreparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

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), the analytes were greater than 10 times the blank level for organics or 20 times for inorganics, or the associated sample(s) must be ND except for the common laboratory contaminants indicated below.

Volatile (GC or GC/MS)	Semivolatile (GC/MS)	Metals
Methylene chloride	Phthalate Esters	Copper
Acetone		Iron
2-Butanone		Zinc
		Lead*

** for analyses run on TJA Trace ICP only*

The listed volatile and semivolatile compounds may be present in concentrations up to 5 times the reporting limits. Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS
(Continued)

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 may 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. The acceptance criteria does not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike for inorganics.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) 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.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample are 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 the surrogate recoveries are outside criteria for environmental or MS/MSD samples, the batch is acceptable if the Method Blank, LCS, and LCSD surrogate recoveries are within acceptance criteria. The only exception is if the surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank and the associated sample(s) are ND, the batch is acceptable. If the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed.

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/PCB and PAH methods, the surrogate criteria is that one of two surrogate compounds meet acceptance criteria.

EXECUTIVE SUMMARY - Detection Highlights

A4L220198

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122104-DS-118 12/21/04 09:12 001				
Mercury	0.012 B	0.13	mg/kg	SW846 7471A
Arsenic	8.5	1.3	mg/kg	SW846 6010B
Lead	10.4	0.40	mg/kg	SW846 6010B
Aluminum	7320	26.9	mg/kg	SW846 6010B
Barium	239	26.9	mg/kg	SW846 6010B
Beryllium	0.27 B	0.67	mg/kg	SW846 6010B
Cadmium	0.11 B	0.67	mg/kg	SW846 6010B
Calcium	19400	674	mg/kg	SW846 6010B
Chromium	12.3 J	1.3	mg/kg	SW846 6010B
Cobalt	8.4	6.7	mg/kg	SW846 6010B
Copper	15.6	3.4	mg/kg	SW846 6010B
Iron	15000	13.5	mg/kg	SW846 6010B
Magnesium	7480	674	mg/kg	SW846 6010B
Manganese	465	2.0	mg/kg	SW846 6010B
Nickel	21.4 J	5.4	mg/kg	SW846 6010B
Potassium	1830 J	674	mg/kg	SW846 6010B
Sodium	189 B,J	674	mg/kg	SW846 6010B
Vanadium	21.6	6.7	mg/kg	SW846 6010B
Zinc	52.6	2.7	mg/kg	SW846 6010B
Caprolactam	41 J	440	ug/kg	SW846 8270C
Methylene chloride	4.1 J	6.1	ug/kg	SW846 8260B
Toluene	0.50 J	6.1	ug/kg	SW846 8260B
Percent Solids	74.2	10.0	%	MCAWW 160.3 MOD
S-122104-DS-119 12/21/04 10:20 002				
Arsenic	5.6	1.2	mg/kg	SW846 6010B
Lead	6.7	0.37	mg/kg	SW846 6010B
Aluminum	3760	24.6	mg/kg	SW846 6010B
Barium	136	24.6	mg/kg	SW846 6010B
Beryllium	0.093 B	0.61	mg/kg	SW846 6010B
Calcium	14500	614	mg/kg	SW846 6010B
Chromium	7.5 J	1.2	mg/kg	SW846 6010B
Cobalt	5.2 B	6.1	mg/kg	SW846 6010B
Copper	5.8	3.1	mg/kg	SW846 6010B
Iron	10000	12.3	mg/kg	SW846 6010B
Magnesium	5550	614	mg/kg	SW846 6010B
Manganese	229	1.8	mg/kg	SW846 6010B
Nickel	12.8 J	4.9	mg/kg	SW846 6010B
Potassium	902 J	614	mg/kg	SW846 6010B
Sodium	121 B,J	614	mg/kg	SW846 6010B
Vanadium	13.1	6.1	mg/kg	SW846 6010B
Zinc	31.7	2.5	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L220198

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122104-DS-119 12/21/04 10:20 002				
Acetone	3.9 J	25	ug/kg	SW846 8260B
Ethylbenzene	1.1 J	6.1	ug/kg	SW846 8260B
Methylene chloride	11	6.1	ug/kg	SW846 8260B
Tetrachloroethene	3.9 J	6.1	ug/kg	SW846 8260B
Toluene	1.1 J	6.1	ug/kg	SW846 8260B
Trichloroethene	0.50 J	6.1	ug/kg	SW846 8260B
Xylenes (total)	0.94 J	12	ug/kg	SW846 8260B
Percent Solids	81.5	10.0	%	MCAWW 160.3 MOD
S-122104-DS-120 12/21/04 11:12 003				
Arsenic	2.3	1.0	mg/kg	SW846 6010B
Lead	2.9	0.31	mg/kg	SW846 6010B
Aluminum	1520	20.9	mg/kg	SW846 6010B
Barium	50.1	20.9	mg/kg	SW846 6010B
Calcium	4250	523	mg/kg	SW846 6010B
Chromium	3.4 J	1.0	mg/kg	SW846 6010B
Cobalt	2.6 B	5.2	mg/kg	SW846 6010B
Copper	1.6 B	2.6	mg/kg	SW846 6010B
Iron	4400	10.5	mg/kg	SW846 6010B
Magnesium	1850	523	mg/kg	SW846 6010B
Manganese	81.6	1.6	mg/kg	SW846 6010B
Nickel	6.7 J	4.2	mg/kg	SW846 6010B
Potassium	329 B,J	523	mg/kg	SW846 6010B
Vanadium	6.1	5.2	mg/kg	SW846 6010B
Zinc	13.3	2.1	mg/kg	SW846 6010B
Acetone	3.3 J	23	ug/kg	SW846 8260B
Methylene chloride	8.3	5.7	ug/kg	SW846 8260B
Tetrachloroethene	2.6 J	5.7	ug/kg	SW846 8260B
Toluene	0.61 J	5.7	ug/kg	SW846 8260B
Percent Solids	95.6	10.0	%	MCAWW 160.3 MOD
S-122104-DS-121 12/21/04 12:08 004				
Mercury	0.035 B	0.14	mg/kg	SW846 7471A
Arsenic	6.7	1.4	mg/kg	SW846 6010B
Lead	10.5	0.42	mg/kg	SW846 6010B
Aluminum	7130	27.9	mg/kg	SW846 6010B
Barium	201	27.9	mg/kg	SW846 6010B
Beryllium	0.26 B	0.70	mg/kg	SW846 6010B
Calcium	19000	697	mg/kg	SW846 6010B
Chromium	12.7 J	1.4	mg/kg	SW846 6010B
Cobalt	5.9 B	7.0	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L220198

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122104-DS-121 12/21/04 12:08 004				
Copper	19.5	3.5	mg/kg	SW846 6010B
Iron	14200	13.9	mg/kg	SW846 6010B
Magnesium	7090	697	mg/kg	SW846 6010B
Manganese	270	2.1	mg/kg	SW846 6010B
Nickel	17.3 J	5.6	mg/kg	SW846 6010B
Potassium	1630 J	697	mg/kg	SW846 6010B
Sodium	144 B,J	697	mg/kg	SW846 6010B
Vanadium	19.9	7.0	mg/kg	SW846 6010B
Zinc	50.1	2.8	mg/kg	SW846 6010B
Methylene chloride	8.3	6.0	ug/kg	SW846 8260B
Toluene	0.87 J	6.0	ug/kg	SW846 8260B
Percent Solids	71.8	10.0	%	MCAWW 160.3 MOD
S-122104-DS-122 12/21/04 12:45 005				
Mercury	0.0077 B	0.12	mg/kg	SW846 7471A
Arsenic	6.6	1.2	mg/kg	SW846 6010B
Lead	8.6	0.37	mg/kg	SW846 6010B
Aluminum	5790	25.0	mg/kg	SW846 6010B
Barium	189	25.0	mg/kg	SW846 6010B
Beryllium	0.16 B	0.62	mg/kg	SW846 6010B
Calcium	18700	625	mg/kg	SW846 6010B
Chromium	9.8 J	1.2	mg/kg	SW846 6010B
Cobalt	6.3	6.2	mg/kg	SW846 6010B
Copper	9.8	3.1	mg/kg	SW846 6010B
Iron	12700	12.5	mg/kg	SW846 6010B
Magnesium	7060	625	mg/kg	SW846 6010B
Manganese	298	1.9	mg/kg	SW846 6010B
Nickel	15.6 J	5.0	mg/kg	SW846 6010B
Potassium	1480 J	625	mg/kg	SW846 6010B
Sodium	154 B,J	625	mg/kg	SW846 6010B
Vanadium	17.1	6.2	mg/kg	SW846 6010B
Zinc	42.9	2.5	mg/kg	SW846 6010B
1,2-Dichloroethane	1.9 J	5.9	ug/kg	SW846 8260B
Methylene chloride	12	5.9	ug/kg	SW846 8260B
Toluene	0.51 J	5.9	ug/kg	SW846 8260B
Percent Solids	80.1	10.0	%	MCAWW 160.3 MOD
S-122104-DS-123 12/21/04 14:15 006				
Arsenic	6.6	1.3	mg/kg	SW846 6010B
Lead	7.8	0.38	mg/kg	SW846 6010B
Aluminum	3970	25.2	mg/kg	SW846 6010B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L220198

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122104-DS-123 12/21/04 14:15 006				
Barium	170	25.2	mg/kg	SW846 6010B
Beryllium	0.12 B	0.63	mg/kg	SW846 6010B
Calcium	11600	630	mg/kg	SW846 6010B
Chromium	8.3 J	1.3	mg/kg	SW846 6010B
Cobalt	5.3 B	6.3	mg/kg	SW846 6010B
Copper	8.2	3.2	mg/kg	SW846 6010B
Iron	10300	12.6	mg/kg	SW846 6010B
Magnesium	5700	630	mg/kg	SW846 6010B
Manganese	251	1.9	mg/kg	SW846 6010B
Nickel	13.0 J	5.0	mg/kg	SW846 6010B
Potassium	941 J	630	mg/kg	SW846 6010B
Sodium	218 B,J	630	mg/kg	SW846 6010B
Vanadium	14.1	6.3	mg/kg	SW846 6010B
Zinc	34.1	2.5	mg/kg	SW846 6010B
Acetone	4.4 J	32	ug/kg	SW846 8260B
Methylene chloride	11	7.9	ug/kg	SW846 8260B
Toluene	0.84 J	7.9	ug/kg	SW846 8260B
Percent Solids	79.3	10.0	%	MCAWW 160.3 MOD
S-122104-DS-124 12/21/04 14:44 007				
Arsenic	1.5	1.0	mg/kg	SW846 6010B
Lead	2.4	0.31	mg/kg	SW846 6010B
Aluminum	339	20.6	mg/kg	SW846 6010B
Barium	17.9 B	20.6	mg/kg	SW846 6010B
Calcium	305 B	514	mg/kg	SW846 6010B
Chromium	2.1 J	1.0	mg/kg	SW846 6010B
Cobalt	0.76 B	5.1	mg/kg	SW846 6010B
Copper	1.2 B	2.6	mg/kg	SW846 6010B
Iron	1870	10.3	mg/kg	SW846 6010B
Magnesium	112 B	514	mg/kg	SW846 6010B
Manganese	7.4	1.5	mg/kg	SW846 6010B
Nickel	1.2 B,J	4.1	mg/kg	SW846 6010B
Potassium	124 B,J	514	mg/kg	SW846 6010B
Vanadium	3.2 B	5.1	mg/kg	SW846 6010B
Zinc	4.2	2.1	mg/kg	SW846 6010B
Anthracene	530 J	4200	ug/kg	SW846 8270C
Benzo(a)anthracene	1500 J	4200	ug/kg	SW846 8270C
Benzo(a)pyrene	1300 J	4200	ug/kg	SW846 8270C
Benzo(b)fluoranthene	1800 J	4200	ug/kg	SW846 8270C
Benzo(ghi)perylene	840 J	4200	ug/kg	SW846 8270C
Benzo(k)fluoranthene	790 J	4200	ug/kg	SW846 8270C
Butyl benzyl phthalate	18000	4200	ug/kg	SW846 8270C

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4L220198

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
S-122104-DS-124 12/21/04 14:44 007				
Chrysene	1500 J	4200	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	200 J	4200	ug/kg	SW846 8270C
Fluoranthene	3700 J	4200	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	920 J	4200	ug/kg	SW846 8270C
Phenanthrene	1900 J	4200	ug/kg	SW846 8270C
Pyrene	2800 J	4200	ug/kg	SW846 8270C
Acetone	3.3 J	19	ug/kg	SW846 8260B
Methylene chloride	6.7	4.8	ug/kg	SW846 8260B
Toluene	0.45 J	4.8	ug/kg	SW846 8260B
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD

ANALYTICAL METHODS SUMMARY

A4L220198

PARAMETER	ANALYTICAL METHOD
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
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 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

A4L220198

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
G1NDP	001	S-122104-DS-118	12/21/04	09:12
G1NE0	002	S-122104-DS-119	12/21/04	10:20
G1NFG	003	S-122104-DS-120	12/21/04	11:12
G1NFH	004	S-122104-DS-121	12/21/04	12:08
G1NFJ	005	S-122104-DS-122	12/21/04	12:45
G1NFQ	006	S-122104-DS-123	12/21/04	14:15
G1NFR	007	S-122104-DS-124	12/21/04	14:44

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

GC/MS Volatiles

Lot-Sample #...: A4L220198-001 **Work Order #...:** G1NDP1DQ **Matrix.....:** SO
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.91
% Moisture.....: 26 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/kg	3.3
Benzene	ND	6.1	ug/kg	0.28
Bromodichloromethane	ND	6.1	ug/kg	0.59
Bromoform	ND	6.1	ug/kg	0.80
Bromomethane	ND	6.1	ug/kg	0.75
2-Butanone	ND	25	ug/kg	1.2
Carbon disulfide	ND	6.1	ug/kg	0.25
Carbon tetrachloride	ND	6.1	ug/kg	0.55
Chlorobenzene	ND	6.1	ug/kg	0.34
Dibromochloromethane	ND	6.1	ug/kg	0.44
Chloroethane	ND	6.1	ug/kg	0.66
Chloroform	ND	6.1	ug/kg	0.49
Chloromethane	ND	6.1	ug/kg	0.31
1,1-Dichloroethane	ND	6.1	ug/kg	0.39
1,2-Dichloroethane	ND	6.1	ug/kg	0.59
1,1-Dichloroethene	ND	6.1	ug/kg	0.74
cis-1,2-Dichloroethene	ND	6.1	ug/kg	0.50
trans-1,2-Dichloroethene	ND	6.1	ug/kg	0.67
1,2-Dichloropropane	ND	6.1	ug/kg	0.43
cis-1,3-Dichloropropene	ND	6.1	ug/kg	0.43
trans-1,3-Dichloropropene	ND	6.1	ug/kg	0.43
Ethylbenzene	ND	6.1	ug/kg	0.65
2-Hexanone	ND	25	ug/kg	1.0
Methylene chloride	**4.1 J**	**6.1**	**ug/kg**	**1.6**
4-Methyl-2-pentanone	ND	25	ug/kg	0.66
Styrene	ND	6.1	ug/kg	0.25
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	0.56
Tetrachloroethene	ND	6.1	ug/kg	1.0
Toluene	**0.50 J**	**6.1**	**ug/kg**	**0.36**
1,1,1-Trichloroethane	ND	6.1	ug/kg	0.93
1,1,2-Trichloroethane	ND	6.1	ug/kg	0.50
Trichloroethene	ND	6.1	ug/kg	0.50
Vinyl chloride	ND	6.1	ug/kg	0.54
Xylenes (total)	ND	12	ug/kg	0.93

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	88	(59 - 138)
1,2-Dichloroethane-d4	80	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

GC/MS Volatiles

Lot-Sample #...: A4L220198-001 Work Order #...: G1NDP1DQ Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-001 **Work Order #...:** G1NDP1AA **Matrix.....:** SO
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 26 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	440	ug/kg	1.2
Acenaphthylene	ND	440	ug/kg	1.9
Acetophenone	ND	440	ug/kg	7.4
Anthracene	ND	440	ug/kg	3.1
Atrazine	ND	440	ug/kg	15
Benzo(a)anthracene	ND	440	ug/kg	1.9
Benzo(a)pyrene	ND	440	ug/kg	3.1
Benzo(b)fluoranthene	ND	440	ug/kg	3.1
Benzo(ghi)perylene	ND	440	ug/kg	2.4
Benzo(k)fluoranthene	ND	440	ug/kg	3.1
Benzaldehyde	ND	440	ug/kg	9.3
1,1'-Biphenyl	ND	440	ug/kg	9.7
bis(2-Chloroethoxy) methane	ND	440	ug/kg	22
bis(2-Chloroethyl)-ether	ND	440	ug/kg	5.5
bis(2-Ethylhexyl) phthalate	ND	440	ug/kg	22
4-Bromophenyl phenyl ether	ND	440	ug/kg	6.3
Butyl benzyl phthalate	ND	440	ug/kg	5.0
Caprolactam	**41 J**	**440**	**ug/kg**	**11**
Carbazole	ND	440	ug/kg	13
4-Chloroaniline	ND	440	ug/kg	7.0
4-Chloro-3-methylphenol	ND	440	ug/kg	69
2-Chloronaphthalene	ND	440	ug/kg	8.5
2-Chlorophenol	ND	440	ug/kg	4.8
4-Chlorophenyl phenyl ether	ND	440	ug/kg	4.8
Chrysene	ND	440	ug/kg	1.3
Dibenz(a,h)anthracene	ND	440	ug/kg	2.0
Dibenzofuran	ND	440	ug/kg	1.1
3,3'-Dichlorobenzidine	ND	2200	ug/kg	6.6
2,4-Dichlorophenol	ND	440	ug/kg	7.1
Diethyl phthalate	ND	440	ug/kg	8.4
2,4-Dimethylphenol	ND	440	ug/kg	9.2
Dimethyl phthalate	ND	440	ug/kg	8.6
Di-n-butyl phthalate	ND	440	ug/kg	6.7

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-001 **Work Order #...:** G1NDP1AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg	63
2,4-Dinitrophenol	ND	2200	ug/kg	55
2,4-Dinitrotoluene	ND	440	ug/kg	7.7
2,6-Dinitrotoluene	ND	440	ug/kg	7.8
Di-n-octyl phthalate	ND	440	ug/kg	15
Fluoranthene	ND	440	ug/kg	1.3
Fluorene	ND	440	ug/kg	1.8
Hexachlorobenzene	ND	440	ug/kg	1.9
Hexachlorobutadiene	ND	440	ug/kg	3.4
Hexachlorocyclopenta-diene	ND	2200	ug/kg	3.9
Hexachloroethane	ND	440	ug/kg	6.6
Indeno(1,2,3-cd)pyrene	ND	440	ug/kg	2.7
Isophorone	ND	440	ug/kg	4.7
2-Methylnaphthalene	ND	440	ug/kg	1.3
2-Methylphenol	ND	440	ug/kg	9.0
4-Methylphenol	ND	440	ug/kg	7.8
Naphthalene	ND	440	ug/kg	1.2
2-Nitroaniline	ND	2200	ug/kg	6.9
3-Nitroaniline	ND	2200	ug/kg	4.3
4-Nitroaniline	ND	2200	ug/kg	4.8
Nitrobenzene	ND	440	ug/kg	8.6
2-Nitrophenol	ND	440	ug/kg	4.6
4-Nitrophenol	ND	2200	ug/kg	110
N-Nitrosodi-n-propyl-amine	ND	440	ug/kg	10
N-Nitrosodiphenylamine	ND	440	ug/kg	5.5
2,2'-oxybis(1-Chloropropane)	ND	440	ug/kg	7.0
Pentachlorophenol	ND	440	ug/kg	61
Phenanthrene	ND	440	ug/kg	1.5
Phenol	ND	440	ug/kg	7.7
Pyrene	ND	440	ug/kg	1.3
2,4,5-Trichloro-phenol	ND	440	ug/kg	6.6
2,4,6-Trichloro-phenol	ND	440	ug/kg	9.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	62	(42 - 110)
2-Fluorobiphenyl	65	(43 - 110)
Terphenyl-d14	80	(37 - 137)
Phenol-d5	58	(25 - 115)
2-Fluorophenol	51	(11 - 116)
2,4,6-Tribromophenol	55	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-001 Work Order #...: G1NDP1AA Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

TOTAL Metals

Lot-Sample #...: A4L220198-001 Matrix.....: SO
Date Sampled...: 12/21/04 09:12 Date Received..: 12/22/04
% Moisture.....: 26

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	7320	26.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AE
		Dilution Factor: 1		MDL.....: 3.1		
Arsenic	8.5	1.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1C7
		Dilution Factor: 1		MDL.....: 0.54		
Lead	10.4	0.40	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1DA
		Dilution Factor: 1		MDL.....: 0.31		
Antimony	ND	8.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AH
		Dilution Factor: 1		MDL.....: 0.31		
Barium	239	26.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AL
		Dilution Factor: 1		MDL.....: 0.20		
Selenium	ND	0.67	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1DE
		Dilution Factor: 1		MDL.....: 0.36		
Beryllium	0.27 B	0.67	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AP
		Dilution Factor: 1		MDL.....: 0.042		
Thallium	ND	1.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1DH
		Dilution Factor: 1		MDL.....: 0.47		
Cadmium	0.11 B	0.67	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AT
		Dilution Factor: 1		MDL.....: 0.031		
Calcium	19400	674	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1AW
		Dilution Factor: 1		MDL.....: 20.2		
Chromium	12.3 J	1.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1A1
		Dilution Factor: 1		MDL.....: 0.16		
Cobalt	8.4	6.7	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1A4
		Dilution Factor: 1		MDL.....: 0.13		
Copper	15.6	3.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1A7
		Dilution Factor: 1		MDL.....: 0.22		
Iron	15000	13.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CA
		Dilution Factor: 1		MDL.....: 5.8		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

TOTAL Metals

Lot-Sample #...: A4L220198-001 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	7480	674	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CE
		Dilution Factor: 1		MDL.....: 2.8		
Manganese	465	2.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CH
		Dilution Factor: 1		MDL.....: 0.42		
Nickel	21.4 J	5.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CL
		Dilution Factor: 1		MDL.....: 0.23		
Potassium	1830 J	674	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CP
		Dilution Factor: 1		MDL.....: 4.8		
Silver	ND	1.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CT
		Dilution Factor: 1		MDL.....: 0.15		
Sodium	189 B,J	674	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1CW
		Dilution Factor: 1		MDL.....: 94.3		
Vanadium	21.6	6.7	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1C1
		Dilution Factor: 1		MDL.....: 0.15		
Zinc	52.6	2.7	mg/kg	SW846 6010B	12/28-12/30/04	G1NDP1C4
		Dilution Factor: 1		MDL.....: 1.2		
Mercury	0.012 B	0.13	mg/kg	SW846 7471A	12/28-01/03/05	G1NDP1DL
		Dilution Factor: 1		MDL.....: 0.0061		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-118

General Chemistry

Lot-Sample #...: A4L220198-001 Work Order #...: G1NDP Matrix.....: SO
Date Sampled...: 12/21/04 09:12 Date Received..: 12/22/04
% Moisture.....: 26

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	74.2	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

GC/MS Volatiles

Lot-Sample #...: A4L220198-002 **Work Order #...:** G1NE01A5 **Matrix.....:** SO
Date Sampled...: 12/21/04 10:20 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.9 J**	**25**	**ug/kg**	**3.3**
Benzene	ND	6.1	ug/kg	0.28
Bromodichloromethane	ND	6.1	ug/kg	0.59
Bromoform	ND	6.1	ug/kg	0.80
Bromomethane	ND	6.1	ug/kg	0.75
2-Butanone	ND	25	ug/kg	1.2
Carbon disulfide	ND	6.1	ug/kg	0.25
Carbon tetrachloride	ND	6.1	ug/kg	0.55
Chlorobenzene	ND	6.1	ug/kg	0.34
Dibromochloromethane	ND	6.1	ug/kg	0.44
Chloroethane	ND	6.1	ug/kg	0.66
Chloroform	ND	6.1	ug/kg	0.49
Chloromethane	ND	6.1	ug/kg	0.31
1,1-Dichloroethane	ND	6.1	ug/kg	0.39
1,2-Dichloroethane	ND	6.1	ug/kg	0.59
1,1-Dichloroethene	ND	6.1	ug/kg	0.74
cis-1,2-Dichloroethene	ND	6.1	ug/kg	0.50
trans-1,2-Dichloroethene	ND	6.1	ug/kg	0.68
1,2-Dichloropropane	ND	6.1	ug/kg	0.43
cis-1,3-Dichloropropene	ND	6.1	ug/kg	0.43
trans-1,3-Dichloropropene	ND	6.1	ug/kg	0.43
Ethylbenzene	**1.1 J**	**6.1**	**ug/kg**	**0.65**
2-Hexanone	ND	25	ug/kg	1.0
Methylene chloride	**11**	**6.1**	**ug/kg**	**1.6**
4-Methyl-2-pentanone	ND	25	ug/kg	0.66
Styrene	ND	6.1	ug/kg	0.25
1,1,2,2-Tetrachloroethane	ND	6.1	ug/kg	0.56
Tetrachloroethene	**3.9 J**	**6.1**	**ug/kg**	**1.0**
Toluene	**1.1 J**	**6.1**	**ug/kg**	**0.36**
1,1,1-Trichloroethane	ND	6.1	ug/kg	0.93
1,1,2-Trichloroethane	ND	6.1	ug/kg	0.50
Trichloroethene	**0.50 J**	**6.1**	**ug/kg**	**0.50**
Vinyl chloride	ND	6.1	ug/kg	0.54
Xylenes (total)	**0.94 J**	**12**	**ug/kg**	**0.93**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

GC/MS Volatiles

Lot-Sample #...: A4L220198-002 **Work Order #...:** G1NE01A5 **Matrix.....:** SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-002 **Work Order #...:** G1NE01AA **Matrix.....:** SO
Date Sampled...: 12/21/04 10:20 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 19 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	410	ug/kg	1.1
Acenaphthylene	ND	410	ug/kg	1.7
Acetophenone	ND	410	ug/kg	6.8
Anthracene	ND	410	ug/kg	2.8
Atrazine	ND	410	ug/kg	14
Benzo(a)anthracene	ND	410	ug/kg	1.7
Benzo(a)pyrene	ND	410	ug/kg	2.8
Benzo(b)fluoranthene	ND	410	ug/kg	2.8
Benzo(ghi)perylene	ND	410	ug/kg	2.2
Benzo(k)fluoranthene	ND	410	ug/kg	2.8
Benzaldehyde	ND	410	ug/kg	8.5
1,1'-Biphenyl	ND	410	ug/kg	8.8
bis(2-Chloroethoxy) methane	ND	410	ug/kg	20
bis(2-Chloroethyl)-ether	ND	410	ug/kg	5.0
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg	20
4-Bromophenyl phenyl ether	ND	410	ug/kg	5.8
Butyl benzyl phthalate	ND	410	ug/kg	4.5
Caprolactam	ND	410	ug/kg	9.6
Carbazole	ND	410	ug/kg	11
4-Chloroaniline	ND	410	ug/kg	6.4
4-Chloro-3-methylphenol	ND	410	ug/kg	63
2-Chloronaphthalene	ND	410	ug/kg	7.7
2-Chlorophenol	ND	410	ug/kg	4.4
4-Chlorophenyl phenyl ether	ND	410	ug/kg	4.4
Chrysene	ND	410	ug/kg	1.2
Dibenz(a,h)anthracene	ND	410	ug/kg	1.8
Dibenzofuran	ND	410	ug/kg	1.0
3,3'-Dichlorobenzidine	ND	2000	ug/kg	6.0
2,4-Dichlorophenol	ND	410	ug/kg	6.5
Diethyl phthalate	ND	410	ug/kg	7.6
2,4-Dimethylphenol	ND	410	ug/kg	8.3
Dimethyl phthalate	ND	410	ug/kg	7.9
Di-n-butyl phthalate	ND	410	ug/kg	6.1

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-002 **Work Order #...:** G1NE01AA **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg	58
2,4-Dinitrophenol	ND	2000	ug/kg	50
2,4-Dinitrotoluene	ND	410	ug/kg	7.0
2,6-Dinitrotoluene	ND	410	ug/kg	7.1
Di-n-octyl phthalate	ND	410	ug/kg	14
Fluoranthene	ND	410	ug/kg	1.1
Fluorene	ND	410	ug/kg	1.6
Hexachlorobenzene	ND	410	ug/kg	1.7
Hexachlorobutadiene	ND	410	ug/kg	3.1
Hexachlorocyclopentadiene	ND	2000	ug/kg	3.6
Hexachloroethane	ND	410	ug/kg	6.0
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	2.5
Isophorone	ND	410	ug/kg	4.3
2-Methylnaphthalene	ND	410	ug/kg	1.2
2-Methylphenol	ND	410	ug/kg	8.2
4-Methylphenol	ND	410	ug/kg	7.1
Naphthalene	ND	410	ug/kg	1.1
2-Nitroaniline	ND	2000	ug/kg	6.3
3-Nitroaniline	ND	2000	ug/kg	3.9
4-Nitroaniline	ND	2000	ug/kg	4.4
Nitrobenzene	ND	410	ug/kg	7.9
2-Nitrophenol	ND	410	ug/kg	4.2
4-Nitrophenol	ND	2000	ug/kg	99
N-Nitrosodi-n-propylamine	ND	410	ug/kg	9.3
N-Nitrosodiphenylamine	ND	410	ug/kg	5.0
2,2'-oxybis(1-Chloropropane)	ND	410	ug/kg	6.4
Pentachlorophenol	ND	410	ug/kg	55
Phenanthrene	ND	410	ug/kg	1.4
Phenol	ND	410	ug/kg	7.0
Pyrene	ND	410	ug/kg	1.2
2,4,5-Trichlorophenol	ND	410	ug/kg	6.0
2,4,6-Trichlorophenol	ND	410	ug/kg	8.3

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	58	(42 - 110)
2-Fluorobiphenyl	52	(43 - 110)
Terphenyl-d14	72	(37 - 137)
Phenol-d5	60	(25 - 115)
2-Fluorophenol	58	(11 - 116)
2,4,6-Tribromophenol	38	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-002 Work Order #...: G1NE01AA Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

TOTAL Metals

Lot-Sample #...: A4L220198-002 Matrix.....: SO
Date Sampled...: 12/21/04 10:20 Date Received..: 12/22/04
% Moisture.....: 19

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	3760	24.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 2.8	12/28-12/30/04	G1NE01AC
Arsenic	5.6	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.49	12/28-12/30/04	G1NE01AX
Lead	6.7	0.37 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.28	12/28-12/30/04	G1NE01A0
Antimony	ND	7.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.28	12/28-12/30/04	G1NE01AD
Barium	136	24.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.18	12/28-12/30/04	G1NE01AE
Selenium	ND	0.61 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.33	12/28-12/30/04	G1NE01A1
Beryllium	0.093 B	0.61 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.038	12/28-12/30/04	G1NE01AF
Thallium	ND	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.43	12/28-12/30/04	G1NE01A2
Cadmium	ND	0.61 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.028	12/28-12/30/04	G1NE01AG
Calcium	14500	614 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 18.4	12/28-12/30/04	G1NE01AH
Chromium	7.5 J	1.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.15	12/28-12/30/04	G1NE01AJ
Cobalt	5.2 B	6.1 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.12	12/28-12/30/04	G1NE01AK
Copper	5.8	3.1 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.20	12/28-12/30/04	G1NE01AL
Iron	10000	12.3 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 5.3	12/28-12/30/04	G1NE01AM

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

TOTAL Metals

Lot-Sample #...: A4L220198-002 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	5550	614	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AN
		Dilution Factor: 1		MDL.....: 2.6		
Manganese	229	1.8	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AP
		Dilution Factor: 1		MDL.....: 0.38		
Nickel	12.8 J	4.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AQ
		Dilution Factor: 1		MDL.....: 0.21		
Potassium	902 J	614	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AR
		Dilution Factor: 1		MDL.....: 4.4		
Silver	ND	1.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AT
		Dilution Factor: 1		MDL.....: 0.14		
Sodium	121 B,J	614	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AU
		Dilution Factor: 1		MDL.....: 85.9		
Vanadium	13.1	6.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AV
		Dilution Factor: 1		MDL.....: 0.14		
Zinc	31.7	2.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NE01AW
		Dilution Factor: 1		MDL.....: 1.1		
Mercury	ND	0.12	mg/kg	SW846 7471A	12/28-01/03/05	G1NE01A3
		Dilution Factor: 1		MDL.....: 0.0055		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-119

General Chemistry

Lot-Sample #...: A4L220198-002 Work Order #...: G1NE0 Matrix.....: SO
Date Sampled...: 12/21/04 10:20 Date Received..: 12/22/04
% Moisture.....: 19

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	81.5	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

GC/MS Volatiles

Lot-Sample #...: A4L220198-003 Work Order #...: G1NFG1AG Matrix.....: SO
Date Sampled...: 12/21/04 11:12 Date Received..: 12/22/04
Prep Date.....: 01/03/05 Analysis Date..: 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 1.09
% Moisture.....: 4.4 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.3 J**	**23**	**ug/kg**	**3.1**
Benzene	ND	5.7	ug/kg	0.26
Bromodichloromethane	ND	5.7	ug/kg	0.55
Bromoform	ND	5.7	ug/kg	0.74
Bromomethane	ND	5.7	ug/kg	0.70
2-Butanone	ND	23	ug/kg	1.1
Carbon disulfide	ND	5.7	ug/kg	0.23
Carbon tetrachloride	ND	5.7	ug/kg	0.51
Chlorobenzene	ND	5.7	ug/kg	0.32
Dibromochloromethane	ND	5.7	ug/kg	0.41
Chloroethane	ND	5.7	ug/kg	0.62
Chloroform	ND	5.7	ug/kg	0.46
Chloromethane	ND	5.7	ug/kg	0.29
1,1-Dichloroethane	ND	5.7	ug/kg	0.36
1,2-Dichloroethane	ND	5.7	ug/kg	0.55
1,1-Dichloroethene	ND	5.7	ug/kg	0.68
cis-1,2-Dichloroethene	ND	5.7	ug/kg	0.47
trans-1,2-Dichloroethene	ND	5.7	ug/kg	0.63
1,2-Dichloropropane	ND	5.7	ug/kg	0.40
cis-1,3-Dichloropropene	ND	5.7	ug/kg	0.40
trans-1,3-Dichloropropene	ND	5.7	ug/kg	0.40
Ethylbenzene	ND	5.7	ug/kg	0.60
2-Hexanone	ND	23	ug/kg	0.96
Methylene chloride	**8.3**	**5.7**	**ug/kg**	**1.5**
4-Methyl-2-pentanone	ND	23	ug/kg	0.62
Styrene	ND	5.7	ug/kg	0.23
1,1,2,2-Tetrachloroethane	ND	5.7	ug/kg	0.52
Tetrachloroethene	**2.6 J**	**5.7**	**ug/kg**	**0.95**
Toluene	**0.61 J**	**5.7**	**ug/kg**	**0.33**
1,1,1-Trichloroethane	ND	5.7	ug/kg	0.87
1,1,2-Trichloroethane	ND	5.7	ug/kg	0.47
Trichloroethene	ND	5.7	ug/kg	0.47
Vinyl chloride	ND	5.7	ug/kg	0.50
Xylenes (total)	ND	11	ug/kg	0.87

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	77	(61 - 130)
Toluene-d8	84	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

GC/MS Volatiles

Lot-Sample #...: A4L220198-003 Work Order #...: G1NFG1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-003 **Work Order #...:** G1NFG1AK **Matrix.....:** SO
Date Sampled...: 12/21/04 11:12 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 4.4 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	350	ug/kg	0.96
Acenaphthylene	ND	350	ug/kg	1.5
Acetophenone	ND	350	ug/kg	5.8
Anthracene	ND	350	ug/kg	2.4
Atrazine	ND	350	ug/kg	12
Benzo(a)anthracene	ND	350	ug/kg	1.5
Benzo(a)pyrene	ND	350	ug/kg	2.4
Benzo(b)fluoranthene	ND	350	ug/kg	2.4
Benzo(ghi)perylene	ND	350	ug/kg	1.9
Benzo(k)fluoranthene	ND	350	ug/kg	2.4
Benzaldehyde	ND	350	ug/kg	7.2
1,1'-Biphenyl	ND	350	ug/kg	7.5
bis(2-Chloroethoxy) methane	ND	350	ug/kg	17
bis(2-Chloroethyl)-ether	ND	350	ug/kg	4.3
bis(2-Ethylhexyl) phthalate	ND	350	ug/kg	17
4-Bromophenyl phenyl ether	ND	350	ug/kg	4.9
Butyl benzyl phthalate	ND	350	ug/kg	3.9
Caprolactam	ND	350	ug/kg	8.2
Carbazole	ND	350	ug/kg	9.7
4-Chloroaniline	ND	350	ug/kg	5.4
4-Chloro-3-methylphenol	ND	350	ug/kg	53
2-Chloronaphthalene	ND	350	ug/kg	6.6
2-Chlorophenol	ND	350	ug/kg	3.8
4-Chlorophenyl phenyl ether	ND	350	ug/kg	3.8
Chrysene	ND	350	ug/kg	1.0
Dibenz(a,h)anthracene	ND	350	ug/kg	1.6
Dibenzofuran	ND	350	ug/kg	0.87
3,3'-Dichlorobenzidine	ND	1700	ug/kg	5.1
2,4-Dichlorophenol	ND	350	ug/kg	5.5
Diethyl phthalate	ND	350	ug/kg	6.5
2,4-Dimethylphenol	ND	350	ug/kg	7.1
Dimethyl phthalate	ND	350	ug/kg	6.7
Di-n-butyl phthalate	ND	350	ug/kg	5.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-003 **Work Order #...:** G1NFG1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	1700	ug/kg	49
2,4-Dinitrophenol	ND	1700	ug/kg	43
2,4-Dinitrotoluene	ND	350	ug/kg	6.0
2,6-Dinitrotoluene	ND	350	ug/kg	6.1
Di-n-octyl phthalate	ND	350	ug/kg	12
Fluoranthene	ND	350	ug/kg	0.97
Fluorene	ND	350	ug/kg	1.4
Hexachlorobenzene	ND	350	ug/kg	1.5
Hexachlorobutadiene	ND	350	ug/kg	2.6
Hexachlorocyclopentadiene	ND	1700	ug/kg	3.0
Hexachloroethane	ND	350	ug/kg	5.1
Indeno(1,2,3-cd)pyrene	ND	350	ug/kg	2.1
Isophorone	ND	350	ug/kg	3.7
2-Methylnaphthalene	ND	350	ug/kg	1.0
2-Methylphenol	ND	350	ug/kg	7.0
4-Methylphenol	ND	350	ug/kg	6.1
Naphthalene	ND	350	ug/kg	0.93
2-Nitroaniline	ND	1700	ug/kg	5.3
3-Nitroaniline	ND	1700	ug/kg	3.3
4-Nitroaniline	ND	1700	ug/kg	3.8
Nitrobenzene	ND	350	ug/kg	6.7
2-Nitrophenol	ND	350	ug/kg	3.6
4-Nitrophenol	ND	1700	ug/kg	85
N-Nitrosodi-n-propylamine	ND	350	ug/kg	7.9
N-Nitrosodiphenylamine	ND	350	ug/kg	4.3
2,2'-oxybis(1-Chloropropane)	ND	350	ug/kg	5.4
Pentachlorophenol	ND	350	ug/kg	47
Phenanthrene	ND	350	ug/kg	1.2
Phenol	ND	350	ug/kg	6.0
Pyrene	ND	350	ug/kg	1.0
2,4,5-Trichlorophenol	ND	350	ug/kg	5.1
2,4,6-Trichlorophenol	ND	350	ug/kg	7.1

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	64	(42 - 110)
2-Fluorobiphenyl	61	(43 - 110)
Terphenyl-d14	76	(37 - 137)
Phenol-d5	68	(25 - 115)
2-Fluorophenol	67	(11 - 116)
2,4,6-Tribromophenol	41	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-003 Work Order #...: G1NFG1AK Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

TOTAL Metals

Lot-Sample #...: A4L220198-003 Matrix.....: SO
Date Sampled...: 12/21/04 11:12 Date Received..: 12/22/04
% Moisture.....: 4.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	1520	20.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AL
		Dilution Factor: 1		MDL.....: 2.4		
Arsenic	2.3	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A7
		Dilution Factor: 1		MDL.....: 0.42		
Lead	2.9	0.31	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AA
		Dilution Factor: 1		MDL.....: 0.24		
Antimony	ND	6.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AM
		Dilution Factor: 1		MDL.....: 0.24		
Barium	50.1	20.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AN
		Dilution Factor: 1		MDL.....: 0.16		
Selenium	ND	0.52	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AC
		Dilution Factor: 1		MDL.....: 0.28		
Beryllium	ND	0.52	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AP
		Dilution Factor: 1		MDL.....: 0.032		
Thallium	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AD
		Dilution Factor: 1		MDL.....: 0.37		
Cadmium	ND	0.52	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AQ
		Dilution Factor: 1		MDL.....: 0.024		
Calcium	4250	523	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AR
		Dilution Factor: 1		MDL.....: 15.7		
Chromium	3.4 J	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AT
		Dilution Factor: 1		MDL.....: 0.13		
Cobalt	2.6 B	5.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AU
		Dilution Factor: 1		MDL.....: 0.10		
Copper	1.6 B	2.6	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AV
		Dilution Factor: 1		MDL.....: 0.17		
Iron	4400	10.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AW
		Dilution Factor: 1		MDL.....: 4.5		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

TOTAL Metals

Lot-Sample #...: A4L220198-003 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	1850	523	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1AX
		Dilution Factor: 1		MDL.....: 2.2		
Manganese	81.6	1.6	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A0
		Dilution Factor: 1		MDL.....: 0.32		
Nickel	6.7 J	4.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A1
		Dilution Factor: 1		MDL.....: 0.18		
Potassium	329 B,J	523	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A2
		Dilution Factor: 1		MDL.....: 3.8		
Silver	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A3
		Dilution Factor: 1		MDL.....: 0.12		
Sodium	ND	523	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A4
		Dilution Factor: 1		MDL.....: 73.2		
Vanadium	6.1	5.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A5
		Dilution Factor: 1		MDL.....: 0.12		
Zinc	13.3	2.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFG1A6
		Dilution Factor: 1		MDL.....: 0.91		
Mercury	ND	0.10	mg/kg	SW846 7471A	12/28-01/03/05	G1NFG1AE
		Dilution Factor: 1		MDL.....: 0.0047		

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-120

General Chemistry

Lot-Sample #...: A4L220198-003 Work Order #...: G1NFG Matrix.....: SO
Date Sampled...: 12/21/04 11:12 Date Received..: 12/22/04
% Moisture.....: 4.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	95.6	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

GC/MS Volatiles

Lot-Sample #...: A4L220198-004 **Work Order #...:** G1NFH1AG **Matrix.....:** SO
Date Sampled...: 12/21/04 12:08 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.86
% Moisture.....: 28 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	24	ug/kg	3.2
Benzene	ND	6.0	ug/kg	0.28
Bromodichloromethane	ND	6.0	ug/kg	0.58
Bromoform	ND	6.0	ug/kg	0.78
Bromomethane	ND	6.0	ug/kg	0.73
2-Butanone	ND	24	ug/kg	1.2
Carbon disulfide	ND	6.0	ug/kg	0.24
Carbon tetrachloride	ND	6.0	ug/kg	0.54
Chlorobenzene	ND	6.0	ug/kg	0.34
Dibromochloromethane	ND	6.0	ug/kg	0.43
Chloroethane	ND	6.0	ug/kg	0.65
Chloroform	ND	6.0	ug/kg	0.48
Chloromethane	ND	6.0	ug/kg	0.30
1,1-Dichloroethane	ND	6.0	ug/kg	0.38
1,2-Dichloroethane	ND	6.0	ug/kg	0.58
1,1-Dichloroethene	ND	6.0	ug/kg	0.72
cis-1,2-Dichloroethene	ND	6.0	ug/kg	0.49
trans-1,2-Dichloroethene	ND	6.0	ug/kg	0.66
1,2-Dichloropropane	ND	6.0	ug/kg	0.42
cis-1,3-Dichloropropene	ND	6.0	ug/kg	0.42
trans-1,3-Dichloropropene	ND	6.0	ug/kg	0.42
Ethylbenzene	ND	6.0	ug/kg	0.64
2-Hexanone	ND	24	ug/kg	1.0
Methylene chloride	**8.3**	**6.0**	**ug/kg**	1.6
4-Methyl-2-pentanone	ND	24	ug/kg	0.65
Styrene	ND	6.0	ug/kg	0.24
1,1,2,2-Tetrachloroethane	ND	6.0	ug/kg	0.55
Tetrachloroethene	ND	6.0	ug/kg	0.99
Toluene	**0.87 J**	**6.0**	**ug/kg**	**0.35**
1,1,1-Trichloroethane	ND	6.0	ug/kg	0.91
1,1,2-Trichloroethane	ND	6.0	ug/kg	0.49
Trichloroethene	ND	6.0	ug/kg	0.49
Vinyl chloride	ND	6.0	ug/kg	0.53
Xylenes (total)	ND	12	ug/kg	0.91

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	74	(61 - 130)
Toluene-d8	79	(60 - 143)
4-Bromofluorobenzene	78	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

GC/MS Volatiles

Lot-Sample #...: A4L220198-004 Work Order #...: G1NFH1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-004 **Work Order #...:** G1NFH1AK **Matrix.....:** SO
Date Sampled...: 12/21/04 12:08 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 28 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	460	ug/kg	1.3
Acenaphthylene	ND	460	ug/kg	2.0
Acetophenone	ND	460	ug/kg	7.7
Anthracene	ND	460	ug/kg	3.2
Atrazine	ND	460	ug/kg	15
Benzo(a)anthracene	ND	460	ug/kg	2.0
Benzo(a)pyrene	ND	460	ug/kg	3.2
Benzo(b)fluoranthene	ND	460	ug/kg	3.2
Benzo(ghi)perylene	ND	460	ug/kg	2.5
Benzo(k)fluoranthene	ND	460	ug/kg	3.2
Benzaldehyde	ND	460	ug/kg	9.6
1,1'-Biphenyl	ND	460	ug/kg	10
bis(2-Chloroethoxy) methane	ND	460	ug/kg	22
bis(2-Chloroethyl)-ether	ND	460	ug/kg	5.7
bis(2-Ethylhexyl) phthalate	ND	460	ug/kg	22
4-Bromophenyl phenyl ether	ND	460	ug/kg	6.5
Butyl benzyl phthalate	ND	460	ug/kg	5.2
Caprolactam	ND	460	ug/kg	11
Carbazole	ND	460	ug/kg	13
4-Chloroaniline	ND	460	ug/kg	7.2
4-Chloro-3-methylphenol	ND	460	ug/kg	71
2-Chloronaphthalene	ND	460	ug/kg	8.8
2-Chlorophenol	ND	460	ug/kg	5.0
4-Chlorophenyl phenyl ether	ND	460	ug/kg	5.0
Chrysene	ND	460	ug/kg	1.4
Dibenz(a,h)anthracene	ND	460	ug/kg	2.1
Dibenzofuran	ND	460	ug/kg	1.2
3,3'-Dichlorobenzidine	ND	2200	ug/kg	6.8
2,4-Dichlorophenol	ND	460	ug/kg	7.4
Diethyl phthalate	ND	460	ug/kg	8.6
2,4-Dimethylphenol	ND	460	ug/kg	9.5
Dimethyl phthalate	ND	460	ug/kg	8.9
Di-n-butyl phthalate	ND	460	ug/kg	7.0

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-004 **Work Order #...:** G1NFH1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2200	ug/kg	65
2,4-Dinitrophenol	ND	2200	ug/kg	57
2,4-Dinitrotoluene	ND	460	ug/kg	7.9
2,6-Dinitrotoluene	ND	460	ug/kg	8.1
Di-n-octyl phthalate	ND	460	ug/kg	15
Fluoranthene	ND	460	ug/kg	1.3
Fluorene	ND	460	ug/kg	1.8
Hexachlorobenzene	ND	460	ug/kg	2.0
Hexachlorobutadiene	ND	460	ug/kg	3.5
Hexachlorocyclopenta-diene	ND	2200	ug/kg	4.0
Hexachloroethane	ND	460	ug/kg	6.8
Indeno(1,2,3-cd)pyrene	ND	460	ug/kg	2.8
Isophorone	ND	460	ug/kg	4.9
2-Methylnaphthalene	ND	460	ug/kg	1.4
2-Methylphenol	ND	460	ug/kg	9.3
4-Methylphenol	ND	460	ug/kg	8.1
Naphthalene	ND	460	ug/kg	1.2
2-Nitroaniline	ND	2200	ug/kg	7.1
3-Nitroaniline	ND	2200	ug/kg	4.5
4-Nitroaniline	ND	2200	ug/kg	5.0
Nitrobenzene	ND	460	ug/kg	8.9
2-Nitrophenol	ND	460	ug/kg	4.7
4-Nitrophenol	ND	2200	ug/kg	110
N-Nitrosodi-n-propyl-amine	ND	460	ug/kg	11
N-Nitrosodiphenylamine	ND	460	ug/kg	5.7
2,2'-oxybis(1-Chloropropane)	ND	460	ug/kg	7.2
Pentachlorophenol	ND	460	ug/kg	63
Phenanthrene	ND	460	ug/kg	1.5
Phenol	ND	460	ug/kg	7.9
Pyrene	ND	460	ug/kg	1.4
2,4,5-Trichloro-phenol	ND	460	ug/kg	6.8
2,4,6-Trichloro-phenol	ND	460	ug/kg	9.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	71	(42 - 110)
2-Fluorobiphenyl	66	(43 - 110)
Terphenyl-d14	84	(37 - 137)
Phenol-d5	84	(25 - 115)
2-Fluorophenol	80	(11 - 116)
2,4,6-Tribromophenol	46	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-004 Work Order #...: G1NFH1AK Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

TOTAL Metals

Lot-Sample #...: A4L220198-004 Matrix.....: SO
Date Sampled...: 12/21/04 12:08 Date Received..: 12/22/04
% Moisture.....: 28

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	7130	27.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AL
		Dilution Factor: 1		MDL.....: 3.2		
Arsenic	6.7	1.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A7
		Dilution Factor: 1		MDL.....: 0.56		
Lead	10.5	0.42	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AA
		Dilution Factor: 1		MDL.....: 0.32		
Antimony	ND	8.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AM
		Dilution Factor: 1		MDL.....: 0.32		
Barium	201	27.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AN
		Dilution Factor: 1		MDL.....: 0.21		
Selenium	ND	0.70	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AC
		Dilution Factor: 1		MDL.....: 0.38		
Beryllium	0.26 B	0.70	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AP
		Dilution Factor: 1		MDL.....: 0.043		
Thallium	ND	1.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AD
		Dilution Factor: 1		MDL.....: 0.49		
Cadmium	ND	0.70	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AQ
		Dilution Factor: 1		MDL.....: 0.032		
Calcium	19000	697	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AR
		Dilution Factor: 1		MDL.....: 20.9		
Chromium	12.7 J	1.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AT
		Dilution Factor: 1		MDL.....: 0.17		
Cobalt	5.9 B	7.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AU
		Dilution Factor: 1		MDL.....: 0.14		
Copper	19.5	3.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AV
		Dilution Factor: 1		MDL.....: 0.22		
Iron	14200	13.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AW
		Dilution Factor: 1		MDL.....: 6.0		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

TOTAL Metals

Lot-Sample #...: A4L220198-004 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	7090	697	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1AX
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	270	2.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A0
		Dilution Factor: 1		MDL.....: 0.43		
Nickel	17.3 J	5.6	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A1
		Dilution Factor: 1		MDL.....: 0.24		
Potassium	1630 J	697	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A2
		Dilution Factor: 1		MDL.....: 5.0		
Silver	ND	1.4	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A3
		Dilution Factor: 1		MDL.....: 0.15		
Sodium	144 B,J	697	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A4
		Dilution Factor: 1		MDL.....: 97.5		
Vanadium	19.9	7.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A5
		Dilution Factor: 1		MDL.....: 0.15		
Zinc	50.1	2.8	mg/kg	SW846 6010B	12/28-12/30/04	G1NFH1A6
		Dilution Factor: 1		MDL.....: 1.2		
Mercury	0.035 B	0.14	mg/kg	SW846 7471A	12/28-01/03/05	G1NFH1AE
		Dilution Factor: 1		MDL.....: 0.0063		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-121

General Chemistry

Lot-Sample #...: A4L220198-004 **Work Order #...:** G1NFH **Matrix.....:** SO
Date Sampled...: 12/21/04 12:08 **Date Received..:** 12/22/04
% Moisture.....: 28

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**71.8**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/29-12/30/04**	**4364283**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

GC/MS Volatiles

Lot-Sample #...: A4L220198-005 Work Order #...: G1NFJ1AG Matrix.....: SO
Date Sampled...: 12/21/04 12:45 Date Received..: 12/22/04
Prep Date.....: 01/03/05 Analysis Date..: 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.94
% Moisture.....: 20 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	23	ug/kg	3.2
Benzene	ND	5.9	ug/kg	0.27
Bromodichloromethane	ND	5.9	ug/kg	0.56
Bromoform	ND	5.9	ug/kg	0.76
Bromomethane	ND	5.9	ug/kg	0.72
2-Butanone	ND	23	ug/kg	1.2
Carbon disulfide	ND	5.9	ug/kg	0.23
Carbon tetrachloride	ND	5.9	ug/kg	0.53
Chlorobenzene	ND	5.9	ug/kg	0.33
Dibromochloromethane	ND	5.9	ug/kg	0.42
Chloroethane	ND	5.9	ug/kg	0.63
Chloroform	ND	5.9	ug/kg	0.47
Chloromethane	ND	5.9	ug/kg	0.29
1,1-Dichloroethane	ND	5.9	ug/kg	0.38
1,2-Dichloroethane	**1.9 J**	**5.9**	**ug/kg**	**0.56**
1,1-Dichloroethene	ND	5.9	ug/kg	0.70
cis-1,2-Dichloroethene	ND	5.9	ug/kg	0.48
trans-1,2-Dichloroethene	ND	5.9	ug/kg	0.65
1,2-Dichloropropane	ND	5.9	ug/kg	0.41
cis-1,3-Dichloropropene	ND	5.9	ug/kg	0.41
trans-1,3-Dichloropropene	ND	5.9	ug/kg	0.41
Ethylbenzene	ND	5.9	ug/kg	0.62
2-Hexanone	ND	23	ug/kg	0.99
Methylene chloride	**12**	**5.9**	**ug/kg**	**1.5**
4-Methyl-2-pentanone	ND	23	ug/kg	0.63
Styrene	ND	5.9	ug/kg	0.23
1,1,2,2-Tetrachloroethane	ND	5.9	ug/kg	0.54
Tetrachloroethene	ND	5.9	ug/kg	0.97
Toluene	**0.51 J**	**5.9**	**ug/kg**	**0.34**
1,1,1-Trichloroethane	ND	5.9	ug/kg	0.89
1,1,2-Trichloroethane	ND	5.9	ug/kg	0.48
Trichloroethene	ND	5.9	ug/kg	0.48
Vinyl chloride	ND	5.9	ug/kg	0.52
Xylenes (total)	ND	12	ug/kg	0.89

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	86	(59 - 138)
1,2-Dichloroethane-d4	74	(61 - 130)
Toluene-d8	80	(60 - 143)
4-Bromofluorobenzene	78	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

GC/MS Volatiles

Lot-Sample #...: A4L220198-005 Work Order #...: G1NFJ1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-005 **Work Order #...:** G1NFJ1AK **Matrix.....:** SO
Date Sampled...: 12/21/04 12:45 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 20 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	410	ug/kg	1.1
Acenaphthylene	ND	410	ug/kg	1.7
Acetophenone	ND	410	ug/kg	6.9
Anthracene	ND	410	ug/kg	2.9
Atrazine	ND	410	ug/kg	14
Benzo(a)anthracene	ND	410	ug/kg	1.7
Benzo(a)pyrene	ND	410	ug/kg	2.9
Benzo(b)fluoranthene	ND	410	ug/kg	2.9
Benzo(ghi)perylene	ND	410	ug/kg	2.2
Benzo(k)fluoranthene	ND	410	ug/kg	2.9
Benzaldehyde	ND	410	ug/kg	8.6
1,1'-Biphenyl	ND	410	ug/kg	9.0
bis(2-Chloroethoxy) methane	ND	410	ug/kg	20
bis(2-Chloroethyl)-ether	ND	410	ug/kg	5.1
bis(2-Ethylhexyl) phthalate	ND	410	ug/kg	20
4-Bromophenyl phenyl ether	ND	410	ug/kg	5.9
Butyl benzyl phthalate	ND	410	ug/kg	4.6
Caprolactam	ND	410	ug/kg	9.7
Carbazole	ND	410	ug/kg	12
4-Chloroaniline	ND	410	ug/kg	6.5
4-Chloro-3-methylphenol	ND	410	ug/kg	64
2-Chloronaphthalene	ND	410	ug/kg	7.9
2-Chlorophenol	ND	410	ug/kg	4.5
4-Chlorophenyl phenyl ether	ND	410	ug/kg	4.5
Chrysene	ND	410	ug/kg	1.2
Dibenz(a,h)anthracene	ND	410	ug/kg	1.9
Dibenzofuran	ND	410	ug/kg	1.0
3,3'-Dichlorobenzidine	ND	2000	ug/kg	6.1
2,4-Dichlorophenol	ND	410	ug/kg	6.6
Diethyl phthalate	ND	410	ug/kg	7.7
2,4-Dimethylphenol	ND	410	ug/kg	8.5
Dimethyl phthalate	ND	410	ug/kg	8.0
Di-n-butyl phthalate	ND	410	ug/kg	6.2

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-005 **Work Order #...:** G1NFJ1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg	59
2,4-Dinitrophenol	ND	2000	ug/kg	51
2,4-Dinitrotoluene	ND	410	ug/kg	7.1
2,6-Dinitrotoluene	ND	410	ug/kg	7.2
Di-n-octyl phthalate	ND	410	ug/kg	14
Fluoranthene	ND	410	ug/kg	1.2
Fluorene	ND	410	ug/kg	1.6
Hexachlorobenzene	ND	410	ug/kg	1.7
Hexachlorobutadiene	ND	410	ug/kg	3.1
Hexachlorocyclopenta-diene	ND	2000	ug/kg	3.6
Hexachloroethane	ND	410	ug/kg	6.1
Indeno(1,2,3-cd)pyrene	ND	410	ug/kg	2.5
Isophorone	ND	410	ug/kg	4.4
2-Methylnaphthalene	ND	410	ug/kg	1.2
2-Methylphenol	ND	410	ug/kg	8.4
4-Methylphenol	ND	410	ug/kg	7.2
Naphthalene	ND	410	ug/kg	1.1
2-Nitroaniline	ND	2000	ug/kg	6.4
3-Nitroaniline	ND	2000	ug/kg	4.0
4-Nitroaniline	ND	2000	ug/kg	4.5
Nitrobenzene	ND	410	ug/kg	8.0
2-Nitrophenol	ND	410	ug/kg	4.2
4-Nitrophenol	ND	2000	ug/kg	100
N-Nitrosodi-n-propyl-amine	ND	410	ug/kg	9.5
N-Nitrosodiphenylamine	ND	410	ug/kg	5.1
2,2'-oxybis(1-Chloropropane)	ND	410	ug/kg	6.5
Pentachlorophenol	ND	410	ug/kg	56
Phenanthrene	ND	410	ug/kg	1.4
Phenol	ND	410	ug/kg	7.1
Pyrene	ND	410	ug/kg	1.2
2,4,5-Trichloro-phenol	ND	410	ug/kg	6.1
2,4,6-Trichloro-phenol	ND	410	ug/kg	8.5

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	66	(42 - 110)
2-Fluorobiphenyl	64	(43 - 110)
Terphenyl-d14	77	(37 - 137)
Phenol-d5	75	(25 - 115)
2-Fluorophenol	68	(11 - 116)
2,4,6-Tribromophenol	60	(35 - 116)

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-005 Work Order #...: G1NFJ1AK Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

TOTAL Metals

Lot-Sample #...: A4L220198-005 Matrix.....: SO
Date Sampled...: 12/21/04 12:45 Date Received..: 12/22/04
% Moisture.....: 20

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	5790	25.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AL
		Dilution Factor: 1		MDL.....: 2.9		
Arsenic	6.6	1.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A7
		Dilution Factor: 1		MDL.....: 0.50		
Lead	8.6	0.37	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AA
		Dilution Factor: 1		MDL.....: 0.29		
Antimony	ND	7.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AM
		Dilution Factor: 1		MDL.....: 0.29		
Barium	189	25.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AN
		Dilution Factor: 1		MDL.....: 0.19		
Selenium	ND	0.62	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AC
		Dilution Factor: 1		MDL.....: 0.34		
Beryllium	0.16 B	0.62	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AP
		Dilution Factor: 1		MDL.....: 0.039		
Thallium	ND	1.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AD
		Dilution Factor: 1		MDL.....: 0.44		
Cadmium	ND	0.62	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AQ
		Dilution Factor: 1		MDL.....: 0.029		
Calcium	18700	625	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AR
		Dilution Factor: 1		MDL.....: 18.7		
Chromium	9.8 J	1.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AT
		Dilution Factor: 1		MDL.....: 0.15		
Cobalt	6.3	6.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AU
		Dilution Factor: 1		MDL.....: 0.12		
Copper	9.8	3.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AV
		Dilution Factor: 1		MDL.....: 0.20		
Iron	12700	12.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AW
		Dilution Factor: 1		MDL.....: 5.4		

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

TOTAL Metals

Lot-Sample #...: A4L220198-005 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	7060	625	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1AX
		Dilution Factor: 1		MDL.....: 2.6		
Manganese	298	1.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A0
		Dilution Factor: 1		MDL.....: 0.39		
Nickel	15.6 J	5.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A1
		Dilution Factor: 1		MDL.....: 0.21		
Potassium	1480 J	625	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A2
		Dilution Factor: 1		MDL.....: 4.5		
Silver	ND	1.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A3
		Dilution Factor: 1		MDL.....: 0.14		
Sodium	154 B,J	625	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A4
		Dilution Factor: 1		MDL.....: 87.4		
Vanadium	17.1	6.2	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A5
		Dilution Factor: 1		MDL.....: 0.14		
Zinc	42.9	2.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFJ1A6
		Dilution Factor: 1		MDL.....: 1.1		
Mercury	0.0077 B	0.12	mg/kg	SW846 7471A	12/28-01/03/05	G1NFJ1AE
		Dilution Factor: 1		MDL.....: 0.0056		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-122

General Chemistry

Lot-Sample #...: A4L220198-005 **Work Order #...:** G1NFJ **Matrix.....:** SO
Date Sampled...: 12/21/04 12:45 **Date Received..:** 12/22/04
% Moisture.....: 20

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**80.1**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/29-12/30/04**	**4364283**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

GC/MS Volatiles

Lot-Sample #...: A4L220198-006 **Work Order #...:** G1NFQ1AG **Matrix.....:** SO
Date Sampled...: 12/21/04 14:15 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 1.25
% Moisture.....: 21 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.4 J**	**32**	**ug/kg**	**4.3**
Benzene	ND	7.9	ug/kg	0.36
Bromodichloromethane	ND	7.9	ug/kg	0.76
Bromoform	ND	7.9	ug/kg	1.0
Bromomethane	ND	7.9	ug/kg	0.96
2-Butanone	ND	32	ug/kg	1.6
Carbon disulfide	ND	7.9	ug/kg	0.32
Carbon tetrachloride	ND	7.9	ug/kg	0.71
Chlorobenzene	ND	7.9	ug/kg	0.44
Dibromochloromethane	ND	7.9	ug/kg	0.57
Chloroethane	ND	7.9	ug/kg	0.85
Chloroform	ND	7.9	ug/kg	0.63
Chloromethane	ND	7.9	ug/kg	0.39
1,1-Dichloroethane	ND	7.9	ug/kg	0.50
1,2-Dichloroethane	ND	7.9	ug/kg	0.76
1,1-Dichloroethene	ND	7.9	ug/kg	0.95
cis-1,2-Dichloroethene	ND	7.9	ug/kg	0.65
trans-1,2-Dichloroethene	ND	7.9	ug/kg	0.87
1,2-Dichloropropane	ND	7.9	ug/kg	0.55
cis-1,3-Dichloropropene	ND	7.9	ug/kg	0.55
trans-1,3-Dichloropropene	ND	7.9	ug/kg	0.55
Ethylbenzene	ND	7.9	ug/kg	0.84
2-Hexanone	ND	32	ug/kg	1.3
Methylene chloride	**11**	**7.9**	**ug/kg**	**2.0**
4-Methyl-2-pentanone	ND	32	ug/kg	0.85
Styrene	ND	7.9	ug/kg	0.32
1,1,2,2-Tetrachloroethane	ND	7.9	ug/kg	0.72
Tetrachloroethene	ND	7.9	ug/kg	1.3
Toluene	**0.84 J**	**7.9**	**ug/kg**	**0.46**
1,1,1-Trichloroethane	ND	7.9	ug/kg	1.2
1,1,2-Trichloroethane	ND	7.9	ug/kg	0.65
Trichloroethene	ND	7.9	ug/kg	0.65
Vinyl chloride	ND	7.9	ug/kg	0.69
Xylenes (total)	ND	16	ug/kg	1.2

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	74	(61 - 130)
Toluene-d8	81	(60 - 143)
4-Bromofluorobenzene	79	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

GC/MS Volatiles

Lot-Sample #...: A4L220198-006 Work Order #...: G1NFQ1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-006 **Work Order #...:** G1NFQ1AK **Matrix.....:** SO
Date Sampled...: 12/21/04 14:15 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 1
% Moisture.....: 21 **Method.....:** SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	420	ug/kg	1.2
Acenaphthylene	ND	420	ug/kg	1.8
Acetophenone	ND	420	ug/kg	6.9
Anthracene	ND	420	ug/kg	2.9
Atrazine	ND	420	ug/kg	14
Benzo(a)anthracene	ND	420	ug/kg	1.8
Benzo(a)pyrene	ND	420	ug/kg	2.9
Benzo(b)fluoranthene	ND	420	ug/kg	2.9
Benzo(ghi)perylene	ND	420	ug/kg	2.3
Benzo(k)fluoranthene	ND	420	ug/kg	2.9
Benzaldehyde	ND	420	ug/kg	8.7
1,1'-Biphenyl	ND	420	ug/kg	9.1
bis(2-Chloroethoxy) methane	ND	420	ug/kg	20
bis(2-Chloroethyl)-ether	ND	420	ug/kg	5.2
bis(2-Ethylhexyl) phthalate	ND	420	ug/kg	20
4-Bromophenyl phenyl ether	ND	420	ug/kg	5.9
Butyl benzyl phthalate	ND	420	ug/kg	4.7
Caprolactam	ND	420	ug/kg	9.8
Carbazole	ND	420	ug/kg	12
4-Chloroaniline	ND	420	ug/kg	6.6
4-Chloro-3-methylphenol	ND	420	ug/kg	64
2-Chloronaphthalene	ND	420	ug/kg	7.9
2-Chlorophenol	ND	420	ug/kg	4.5
4-Chlorophenyl phenyl ether	ND	420	ug/kg	4.5
Chrysene	ND	420	ug/kg	1.2
Dibenz(a,h)anthracene	ND	420	ug/kg	1.9
Dibenzofuran	ND	420	ug/kg	1.0
3,3'-Dichlorobenzidine	ND	2000	ug/kg	6.2
2,4-Dichlorophenol	ND	420	ug/kg	6.7
Diethyl phthalate	ND	420	ug/kg	7.8
2,4-Dimethylphenol	ND	420	ug/kg	8.6
Dimethyl phthalate	ND	420	ug/kg	8.1
Di-n-butyl phthalate	ND	420	ug/kg	6.3

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-006 **Work Order #...:** G1NFQ1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	2000	ug/kg	59
2,4-Dinitrophenol	ND	2000	ug/kg	52
2,4-Dinitrotoluene	ND	420	ug/kg	7.2
2,6-Dinitrotoluene	ND	420	ug/kg	7.3
Di-n-octyl phthalate	ND	420	ug/kg	14
Fluoranthene	ND	420	ug/kg	1.2
Fluorene	ND	420	ug/kg	1.6
Hexachlorobenzene	ND	420	ug/kg	1.8
Hexachlorobutadiene	ND	420	ug/kg	3.2
Hexachlorocyclopentadiene	ND	2000	ug/kg	3.7
Hexachloroethane	ND	420	ug/kg	6.2
Indeno(1,2,3-cd)pyrene	ND	420	ug/kg	2.5
Isophorone	ND	420	ug/kg	4.4
2-Methylnaphthalene	ND	420	ug/kg	1.2
2-Methylphenol	ND	420	ug/kg	8.4
4-Methylphenol	ND	420	ug/kg	7.3
Naphthalene	ND	420	ug/kg	1.1
2-Nitroaniline	ND	2000	ug/kg	6.4
3-Nitroaniline	ND	2000	ug/kg	4.0
4-Nitroaniline	ND	2000	ug/kg	4.5
Nitrobenzene	ND	420	ug/kg	8.1
2-Nitrophenol	ND	420	ug/kg	4.3
4-Nitrophenol	ND	2000	ug/kg	100
N-Nitrosodi-n-propylamine	ND	420	ug/kg	9.6
N-Nitrosodiphenylamine	ND	420	ug/kg	5.2
2,2'-oxybis(1-Chloropropane)	ND	420	ug/kg	6.6
Pentachlorophenol	ND	420	ug/kg	57
Phenanthrene	ND	420	ug/kg	1.4
Phenol	ND	420	ug/kg	7.2
Pyrene	ND	420	ug/kg	1.3
2,4,5-Trichlorophenol	ND	420	ug/kg	6.2
2,4,6-Trichlorophenol	ND	420	ug/kg	8.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	67	(42 - 110)
2-Fluorobiphenyl	62	(43 - 110)
Terphenyl-d14	96	(37 - 137)
Phenol-d5	73	(25 - 115)
2-Fluorophenol	75	(11 - 116)
2,4,6-Tribromophenol	65	(35 - 116)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-006 Work Order #...: G1NFQ1AK Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

TOTAL Metals

Lot-Sample #...: A4L220198-006 **Matrix.....:** SO
Date Sampled...: 12/21/04 14:15 **Date Received..:** 12/22/04
% Moisture.....: 21

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	**3970**	**25.2** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 2.9	**12/28-12/30/04**	**G1NFQ1AL**
Arsenic	**6.6**	**1.3** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.50	**12/28-12/30/04**	**G1NFQ1A7**
Lead	**7.8**	**0.38** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.29	**12/28-12/30/04**	**G1NFQ1AA**
Antimony	ND	7.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.29	12/28-12/30/04	G1NFQ1AM
Barium	**170**	**25.2** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.19	**12/28-12/30/04**	**G1NFQ1AN**
Selenium	ND	0.63 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.34	12/28-12/30/04	G1NFQ1AC
Beryllium	**0.12 B**	**0.63** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.039	**12/28-12/30/04**	**G1NFQ1AP**
Thallium	ND	1.3 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.44	12/28-12/30/04	G1NFQ1AD
Cadmium	ND	0.63 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.029	12/28-12/30/04	G1NFQ1AQ
Calcium	**11600**	**630** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 18.9	**12/28-12/30/04**	**G1NFQ1AR**
Chromium	**8.3 J**	**1.3** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.15	**12/28-12/30/04**	**G1NFQ1AT**
Cobalt	**5.3 B**	**6.3** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.13	**12/28-12/30/04**	**G1NFQ1AU**
Copper	**8.2**	**3.2** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 0.20	**12/28-12/30/04**	**G1NFQ1AV**
Iron	**10300**	**12.6** Dilution Factor: 1	**mg/kg**	**SW846 6010B** MDL.....: 5.4	**12/28-12/30/04**	**G1NFQ1AW**

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

TOTAL Metals

Lot-Sample #...: A4L220198-006 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	5700	630	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1AX
		Dilution Factor: 1		MDL.....: 2.6		
Manganese	251	1.9	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A0
		Dilution Factor: 1		MDL.....: 0.39		
Nickel	13.0 J	5.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A1
		Dilution Factor: 1		MDL.....: 0.21		
Potassium	941 J	630	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A2
		Dilution Factor: 1		MDL.....: 4.5		
Silver	ND	1.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A3
		Dilution Factor: 1		MDL.....: 0.14		
Sodium	218 B,J	630	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A4
		Dilution Factor: 1		MDL.....: 88.2		
Vanadium	14.1	6.3	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A5
		Dilution Factor: 1		MDL.....: 0.14		
Zinc	34.1	2.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFQ1A6
		Dilution Factor: 1		MDL.....: 1.1		
Mercury	ND	0.13	mg/kg	SW846 7471A	12/28-01/03/05	G1NFQ1AE
		Dilution Factor: 1		MDL.....: 0.0057		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-123

General Chemistry

Lot-Sample #...: A4L220198-006 **Work Order #...:** G1NFQ **Matrix.....:** SO
Date Sampled...: 12/21/04 14:15 **Date Received..:** 12/22/04
% Moisture.....: 21

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	**79.3**	**10.0**	**%**	**MCAWW 160.3 MOD**	**12/29-12/30/04**	**4364283**

Dilution Factor: 1 MDL.....: 10.0

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

GC/MS Volatiles

Lot-Sample #...: A4L220198-007 Work Order #...: G1NFR1AG Matrix.....: SO
Date Sampled...: 12/21/04 14:44 Date Received..: 12/22/04
Prep Date.....: 01/03/05 Analysis Date..: 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.93
% Moisture.....: 2.7 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.3 J**	**19**	**ug/kg**	**2.6**
Benzene	ND	4.8	ug/kg	0.22
Bromodichloromethane	ND	4.8	ug/kg	0.46
Bromoform	ND	4.8	ug/kg	0.62
Bromomethane	ND	4.8	ug/kg	0.58
2-Butanone	ND	19	ug/kg	0.96
Carbon disulfide	ND	4.8	ug/kg	0.19
Carbon tetrachloride	ND	4.8	ug/kg	0.43
Chlorobenzene	ND	4.8	ug/kg	0.27
Dibromochloromethane	ND	4.8	ug/kg	0.34
Chloroethane	ND	4.8	ug/kg	0.52
Chloroform	ND	4.8	ug/kg	0.38
Chloromethane	ND	4.8	ug/kg	0.24
1,1-Dichloroethane	ND	4.8	ug/kg	0.31
1,2-Dichloroethane	ND	4.8	ug/kg	0.46
1,1-Dichloroethene	ND	4.8	ug/kg	0.57
cis-1,2-Dichloroethene	ND	4.8	ug/kg	0.39
trans-1,2-Dichloroethene	ND	4.8	ug/kg	0.53
1,2-Dichloropropane	ND	4.8	ug/kg	0.33
cis-1,3-Dichloropropene	ND	4.8	ug/kg	0.33
trans-1,3-Dichloropropene	ND	4.8	ug/kg	0.33
Ethylbenzene	ND	4.8	ug/kg	0.51
2-Hexanone	ND	19	ug/kg	0.80
Methylene chloride	**6.7**	**4.8**	**ug/kg**	**1.2**
4-Methyl-2-pentanone	ND	19	ug/kg	0.52
Styrene	ND	4.8	ug/kg	0.19
1,1,2,2-Tetrachloroethane	ND	4.8	ug/kg	0.44
Tetrachloroethene	ND	4.8	ug/kg	0.79
Toluene	**0.45 J**	**4.8**	**ug/kg**	**0.28**
1,1,1-Trichloroethane	ND	4.8	ug/kg	0.73
1,1,2-Trichloroethane	ND	4.8	ug/kg	0.39
Trichloroethene	ND	4.8	ug/kg	0.39
Vinyl chloride	ND	4.8	ug/kg	0.42
Xylenes (total)	ND	9.6	ug/kg	0.73

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	87	(59 - 138)
1,2-Dichloroethane-d4	79	(61 - 130)
Toluene-d8	83	(60 - 143)
4-Bromofluorobenzene	86	(47 - 158)

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

GC/MS Volatiles

Lot-Sample #...: A4L220198-007 Work Order #...: G1NFR1AG Matrix.....: SO

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-007 Work Order #...: G1NFR1AK Matrix.....: SO
Date Sampled...: 12/21/04 14:44 Date Received..: 12/22/04
Prep Date.....: 12/27/04 Analysis Date..: 01/03/05
Prep Batch #...: 4362352
Dilution Factor: 12.5
% Moisture.....: 2.7 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	4200	ug/kg	12
Acenaphthylene	ND	4200	ug/kg	18
Acetophenone	ND	4200	ug/kg	71
Anthracene	**530 J**	**4200**	**ug/kg**	**30**
Atrazine	ND	4200	ug/kg	140
Benzo(a)anthracene	**1500 J**	**4200**	**ug/kg**	**18**
Benzo(a)pyrene	**1300 J**	**4200**	**ug/kg**	**30**
Benzo(b)fluoranthene	**1800 J**	**4200**	**ug/kg**	**30**
Benzo(ghi)perylene	**840 J**	**4200**	**ug/kg**	**23**
Benzo(k)fluoranthene	**790 J**	**4200**	**ug/kg**	**30**
Benzaldehyde	ND	4200	ug/kg	89
1,1'-Biphenyl	ND	4200	ug/kg	92
bis(2-Chloroethoxy) methane	ND	4200	ug/kg	210
bis(2-Chloroethyl)-ether	ND	4200	ug/kg	53
bis(2-Ethylhexyl) phthalate	ND	4200	ug/kg	210
4-Bromophenyl phenyl ether	ND	4200	ug/kg	60
Butyl benzyl phthalate	**18000**	**4200**	**ug/kg**	**48**
Caprolactam	ND	4200	ug/kg	100
Carbazole	ND	4200	ug/kg	120
4-Chloroaniline	ND	4200	ug/kg	67
4-Chloro-3-methylphenol	ND	4200	ug/kg	660
2-Chloronaphthalene	ND	4200	ug/kg	81
2-Chlorophenol	ND	4200	ug/kg	46
4-Chlorophenyl phenyl ether	ND	4200	ug/kg	46
Chrysene	**1500 J**	**4200**	**ug/kg**	**13**
Dibenz(a,h)anthracene	**200 J**	**4200**	**ug/kg**	**19**
Dibenzofuran	ND	4200	ug/kg	11
3,3'-Dichlorobenzidine	ND	21000	ug/kg	63
2,4-Dichlorophenol	ND	4200	ug/kg	68
Diethyl phthalate	ND	4200	ug/kg	80
2,4-Dimethylphenol	ND	4200	ug/kg	87
Dimethyl phthalate	ND	4200	ug/kg	82
Di-n-butyl phthalate	ND	4200	ug/kg	64

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-007 **Work Order #...:** G1NFR1AK **Matrix.....:** SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro-2-methylphenol	ND	21000	ug/kg	600
2,4-Dinitrophenol	ND	21000	ug/kg	530
2,4-Dinitrotoluene	ND	4200	ug/kg	73
2,6-Dinitrotoluene	ND	4200	ug/kg	75
Di-n-octyl phthalate	ND	4200	ug/kg	140
Fluoranthene	**3700 J**	**4200**	**ug/kg**	**12**
Fluorene	ND	4200	ug/kg	17
Hexachlorobenzene	ND	4200	ug/kg	18
Hexachlorobutadiene	ND	4200	ug/kg	32
Hexachlorocyclopentadiene	ND	21000	ug/kg	37
Hexachloroethane	ND	4200	ug/kg	63
Indeno(1,2,3-cd)pyrene	**920 J**	**4200**	**ug/kg**	**26**
Isophorone	ND	4200	ug/kg	45
2-Methylnaphthalene	ND	4200	ug/kg	13
2-Methylphenol	ND	4200	ug/kg	86
4-Methylphenol	ND	4200	ug/kg	75
Naphthalene	ND	4200	ug/kg	11
2-Nitroaniline	ND	21000	ug/kg	66
3-Nitroaniline	ND	21000	ug/kg	41
4-Nitroaniline	ND	21000	ug/kg	46
Nitrobenzene	ND	4200	ug/kg	82
2-Nitrophenol	ND	4200	ug/kg	44
4-Nitrophenol	ND	21000	ug/kg	1000
N-Nitrosodi-n-propylamine	ND	4200	ug/kg	98
N-Nitrosodiphenylamine	ND	4200	ug/kg	53
2,2'-oxybis(1-Chloropropane)	ND	4200	ug/kg	67
Pentachlorophenol	ND	4200	ug/kg	580
Phenanthrene	**1900 J**	**4200**	**ug/kg**	**14**
Phenol	ND	4200	ug/kg	73
Pyrene	**2800 J**	**4200**	**ug/kg**	**13**
2,4,5-Trichlorophenol	ND	4200	ug/kg	63
2,4,6-Trichlorophenol	ND	4200	ug/kg	87

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	63 DIL	(42 - 110)
2-Fluorobiphenyl	62 DIL	(43 - 110)
Terphenyl-d14	73 DIL	(37 - 137)
Phenol-d5	56 DIL	(25 - 115)
2-Fluorophenol	61 DIL	(11 - 116)
2,4,6-Tribromophenol	48 DIL	(35 - 116)

(Continued on next page)

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

GC/MS Semivolatiles

Lot-Sample #...: A4L220198-007 **Work Order #...:** G1NFR1AK **Matrix.....:** SO

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.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

TOTAL Metals

Lot-Sample #...: A4L220198-007 Matrix.....: SO
Date Sampled...: 12/21/04 14:44 Date Received..: 12/22/04
% Moisture.....: 2.7

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363037						
Aluminum	339	20.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 2.4	12/28-12/30/04	G1NFR1AL
Arsenic	1.5	1.0 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.41	12/28-12/30/04	G1NFR1A7
Lead	2.4	0.31 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.24	12/28-12/30/04	G1NFR1AA
Antimony	ND	6.2 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.24	12/28-12/30/04	G1NFR1AM
Barium	17.9 B	20.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.15	12/28-12/30/04	G1NFR1AN
Selenium	ND	0.51 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.28	12/28-12/30/04	G1NFR1AC
Beryllium	ND	0.51 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.032	12/28-12/30/04	G1NFR1AP
Thallium	ND	1.0 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.36	12/28-12/30/04	G1NFR1AD
Cadmium	ND	0.51 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.024	12/28-12/30/04	G1NFR1AQ
Calcium	305 B	514 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 15.4	12/28-12/30/04	G1NFR1AR
Chromium	2.1 J	1.0 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.12	12/28-12/30/04	G1NFR1AT
Cobalt	0.76 B	5.1 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.10	12/28-12/30/04	G1NFR1AU
Copper	1.2 B	2.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.16	12/28-12/30/04	G1NFR1AV
Iron	1870	10.3 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 4.4	12/28-12/30/04	G1NFR1AW

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Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

TOTAL Metals

Lot-Sample #...: A4L220198-007 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	112 B	514	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1AX
		Dilution Factor: 1		MDL.....: 2.2		
Manganese	7.4	1.5	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A0
		Dilution Factor: 1		MDL.....: 0.32		
Nickel	1.2 B,J	4.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A1
		Dilution Factor: 1		MDL.....: 0.17		
Potassium	124 B,J	514	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A2
		Dilution Factor: 1		MDL.....: 3.7		
Silver	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A3
		Dilution Factor: 1		MDL.....: 0.11		
Sodium	ND	514	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A4
		Dilution Factor: 1		MDL.....: 71.9		
Vanadium	3.2 B	5.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A5
		Dilution Factor: 1		MDL.....: 0.11		
Zinc	4.2	2.1	mg/kg	SW846 6010B	12/28-12/30/04	G1NFR1A6
		Dilution Factor: 1		MDL.....: 0.89		
Mercury	ND	0.10	mg/kg	SW846 7471A	12/28-01/03/05	G1NFR1AE
		Dilution Factor: 1		MDL.....: 0.0046		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122104-DS-124

General Chemistry

Lot-Sample #...: A4L220198-007 Work Order #...: G1NFR Matrix.....: SO
Date Sampled...: 12/21/04 14:44 Date Received..: 12/22/04
% Moisture.....: 2.7

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids	97.3	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1 MDL.....: 10.0

SEVERN TRENT STL

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L220198 **Work Order #...:** G15W71AA **Matrix.....:** SOLID
MB Lot-Sample #: A5A050000-200

Prep Date.....: 01/03/05
Analysis Date..: 01/03/05 **Prep Batch #...:** 5005200
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	20	ug/kg	SW846 8260B
Benzene	ND	5.0	ug/kg	SW846 8260B
Bromodichloromethane	ND	5.0	ug/kg	SW846 8260B
Bromoform	ND	5.0	ug/kg	SW846 8260B
Bromomethane	ND	5.0	ug/kg	SW846 8260B
2-Butanone	ND	20	ug/kg	SW846 8260B
Carbon disulfide	ND	5.0	ug/kg	SW846 8260B
Carbon tetrachloride	ND	5.0	ug/kg	SW846 8260B
Chlorobenzene	ND	5.0	ug/kg	SW846 8260B
Dibromochloromethane	ND	5.0	ug/kg	SW846 8260B
Chloroethane	ND	5.0	ug/kg	SW846 8260B
Chloroform	ND	5.0	ug/kg	SW846 8260B
Chloromethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	5.0	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	5.0	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	5.0	ug/kg	SW846 8260B
Ethylbenzene	ND	5.0	ug/kg	SW846 8260B
2-Hexanone	ND	20	ug/kg	SW846 8260B
Methylene chloride	ND	5.0	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	20	ug/kg	SW846 8260B
Styrene	ND	5.0	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	5.0	ug/kg	SW846 8260B
Tetrachloroethene	ND	5.0	ug/kg	SW846 8260B
Toluene	ND	5.0	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	5.0	ug/kg	SW846 8260B
Trichloroethene	ND	5.0	ug/kg	SW846 8260B
Vinyl chloride	ND	5.0	ug/kg	SW846 8260B
Xylenes (total)	ND	10	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(59 - 138)
1,2-Dichloroethane-d4	76	(61 - 130)
Toluene-d8	85	(60 - 143)
4-Bromofluorobenzene	89	(47 - 158)

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4L220198 **Work Order #...:** G15W71AA **Matrix.....:** SOLID

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220198 **Work Order #...:** G1TCW1AA **Matrix.....:** SOLID
MB Lot-Sample #: A4L270000-352

Prep Date.....: 12/27/04
Analysis Date..: 01/04/05 **Prep Batch #...:** 4362352
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acenaphthene	ND	330	ug/kg	SW846 8270C
Acenaphthylene	ND	330	ug/kg	SW846 8270C
Acetophenone	ND	330	ug/kg	SW846 8270C
Anthracene	ND	330	ug/kg	SW846 8270C
Atrazine	ND	330	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	330	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	330	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	330	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	330	ug/kg	SW846 8270C
Benzaldehyde	ND	330	ug/kg	SW846 8270C
1,1'-Biphenyl	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethoxy) methane	ND	330	ug/kg	SW846 8270C
bis(2-Chloroethyl)-ether	ND	330	ug/kg	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	330	ug/kg	SW846 8270C
4-Bromophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Butyl benzyl phthalate	ND	330	ug/kg	SW846 8270C
Caprolactam	ND	330	ug/kg	SW846 8270C
Carbazole	ND	330	ug/kg	SW846 8270C
4-Chloroaniline	ND	330	ug/kg	SW846 8270C
4-Chloro-3-methylphenol	ND	330	ug/kg	SW846 8270C
2-Chloronaphthalene	ND	330	ug/kg	SW846 8270C
2-Chlorophenol	ND	330	ug/kg	SW846 8270C
4-Chlorophenyl phenyl ether	ND	330	ug/kg	SW846 8270C
Chrysene	ND	330	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	330	ug/kg	SW846 8270C
Dibenzofuran	ND	330	ug/kg	SW846 8270C
3,3'-Dichlorobenzidine	ND	1600	ug/kg	SW846 8270C
2,4-Dichlorophenol	ND	330	ug/kg	SW846 8270C
Diethyl phthalate	ND	330	ug/kg	SW846 8270C
2,4-Dimethylphenol	ND	330	ug/kg	SW846 8270C
Dimethyl phthalate	ND	330	ug/kg	SW846 8270C
Di-n-butyl phthalate	ND	330	ug/kg	SW846 8270C
4,6-Dinitro-2-methylphenol	ND	1600	ug/kg	SW846 8270C
2,4-Dinitrophenol	ND	1600	ug/kg	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4L220198 **Work Order #...:** G1TCW1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
2,4-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
2,6-Dinitrotoluene	ND	330	ug/kg	SW846 8270C
Di-n-octyl phthalate	ND	330	ug/kg	SW846 8270C
Fluoranthene	ND	330	ug/kg	SW846 8270C
Fluorene	ND	330	ug/kg	SW846 8270C
Hexachlorobenzene	ND	330	ug/kg	SW846 8270C
Hexachlorobutadiene	ND	330	ug/kg	SW846 8270C
Hexachlorocyclopenta-diene	ND	1600	ug/kg	SW846 8270C
Hexachloroethane	ND	330	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	330	ug/kg	SW846 8270C
Isophorone	ND	330	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	330	ug/kg	SW846 8270C
2-Methylphenol	ND	330	ug/kg	SW846 8270C
4-Methylphenol	ND	330	ug/kg	SW846 8270C
Naphthalene	ND	330	ug/kg	SW846 8270C
2-Nitroaniline	ND	1600	ug/kg	SW846 8270C
3-Nitroaniline	ND	1600	ug/kg	SW846 8270C
4-Nitroaniline	ND	1600	ug/kg	SW846 8270C
Nitrobenzene	ND	330	ug/kg	SW846 8270C
2-Nitrophenol	ND	330	ug/kg	SW846 8270C
4-Nitrophenol	ND	1600	ug/kg	SW846 8270C
N-Nitrosodi-n-propyl-amine	ND	330	ug/kg	SW846 8270C
N-Nitrosodiphenylamine	ND	330	ug/kg	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	330	ug/kg	SW846 8270C
Pentachlorophenol	ND	330	ug/kg	SW846 8270C
Phenanthrene	ND	330	ug/kg	SW846 8270C
Phenol	ND	330	ug/kg	SW846 8270C
Pyrene	ND	330	ug/kg	SW846 8270C
2,4,5-Trichloro-phenol	ND	330	ug/kg	SW846 8270C
2,4,6-Trichloro-phenol	ND	330	ug/kg	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	70	(42 - 110)
2-Fluorobiphenyl	66	(43 - 110)
Terphenyl-d14	87	(37 - 137)
Phenol-d5	79	(25 - 115)
2-Fluorophenol	80	(11 - 116)
2,4,6-Tribromophenol	51	(35 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L220198 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A4L280000-037 **Prep Batch #...:** 4363037						
Aluminum	ND	20.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AA
		Dilution Factor: 1				
Arsenic	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AW
		Dilution Factor: 1				
Antimony	ND	6.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AC
		Dilution Factor: 1				
Lead	ND	0.30	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AX
		Dilution Factor: 1				
Barium	ND	20.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AD
		Dilution Factor: 1				
Selenium	ND	0.50	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1A0
		Dilution Factor: 1				
Beryllium	ND	0.50	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AE
		Dilution Factor: 1				
Thallium	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1A1
		Dilution Factor: 1				
Cadmium	ND	0.50	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AF
		Dilution Factor: 1				
Calcium	ND	500	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AG
		Dilution Factor: 1				
Chromium	**0.31 B**	**1.0**	**mg/kg**	**SW846 6010B**	**12/28-12/30/04**	**G1TXR1AH**
		Dilution Factor: 1				
Cobalt	ND	5.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AJ
		Dilution Factor: 1				
Copper	ND	2.5	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AK
		Dilution Factor: 1				
Iron	ND	10.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AL
		Dilution Factor: 1				
Magnesium	ND	500	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AM
		Dilution Factor: 1				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: A4L220198 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Manganese	ND	1.5	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AN
		Dilution Factor: 1				
Nickel	**0.37 B**	**4.0**	**mg/kg**	**SW846 6010B**	**12/28-12/30/04**	**G1TXR1AP**
		Dilution Factor: 1				
Potassium	**8.0 B**	**500**	**mg/kg**	**SW846 6010B**	**12/28-12/30/04**	**G1TXR1AQ**
		Dilution Factor: 1				
Silver	ND	1.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AR
		Dilution Factor: 1				
Sodium	**80.7 B**	**500**	**mg/kg**	**SW846 6010B**	**12/28-12/30/04**	**G1TXR1AT**
		Dilution Factor: 1				
Vanadium	ND	5.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AU
		Dilution Factor: 1				
Zinc	ND	2.0	mg/kg	SW846 6010B	12/28-12/30/04	G1TXR1AV
		Dilution Factor: 1				
Mercury	ND	0.10	mg/kg	SW846 7471A	12/28-01/03/05	G1TXR1A2
		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 #...: A4L220198 **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids		Work Order #: G1XRW1AA		MB Lot-Sample #:	A4L290000-283	
	ND	10.0	%	MCAWW 160.3 MOD	12/29-12/30/04	4364283
		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 #...: A4L220198 **Work Order #...:** G15W71AC-LCS **Matrix.....:** SOLID
LCS Lot-Sample#: A5A050000-200 G15W71AD-LCSD
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**86**	**(75 - 129)**			**SW846 8260B**
	87	**(75 - 129)**	**1.2**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**99**	**(75 - 127)**			**SW846 8260B**
	99	**(75 - 127)**	**0.45**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**95**	**(55 - 142)**			**SW846 8260B**
	95	**(55 - 142)**	**0.77**	**(0-27)**	**SW846 8260B**
Toluene	**96**	**(71 - 130)**			**SW846 8260B**
	97	**(71 - 130)**	**0.80**	**(0-24)**	**SW846 8260B**
Trichloroethene	**89**	**(70 - 131)**			**SW846 8260B**
	88	**(70 - 131)**	**0.35**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	84	(59 - 138)
	82	(59 - 138)
1,2-Dichloroethane-d4	77	(61 - 130)
	75	(61 - 130)
Toluene-d8	91	(60 - 143)
	88	(60 - 143)
4-Bromofluorobenzene	97	(47 - 158)
	93	(47 - 158)

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 #...: A4L220198 **Work Order #...:** G1TCW1AC **Matrix.....:** SOLID
LCS Lot-Sample#: A4L270000-352
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362352
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acenaphthene	**76**	**(44 - 110)**	**SW846 8270C**
1,2,4-Trichloro-benzene	**73**	**(45 - 110)**	**SW846 8270C**
1,4-Dichlorobenzene	**95**	**(38 - 110)**	**SW846 8270C**
4-Chloro-3-methylphenol	**68**	**(43 - 110)**	**SW846 8270C**
2-Chlorophenol	**79**	**(43 - 110)**	**SW846 8270C**
2,4-Dinitrotoluene	**74**	**(48 - 111)**	**SW846 8270C**
4-Nitrophenol	**76**	**(22 - 128)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**94**	**(38 - 110)**	**SW846 8270C**
Pentachlorophenol	**46**	**(10 - 123)**	**SW846 8270C**
Phenol	**76**	**(35 - 110)**	**SW846 8270C**
Pyrene	**72**	**(42 - 122)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	79	(42 - 110)
2-Fluorobiphenyl	70	(43 - 110)
Terphenyl-d14	77	(37 - 137)
Phenol-d5	82	(25 - 115)
2-Fluorophenol	72	(11 - 116)
2,4,6-Tribromophenol	61	(35 - 116)

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 #...: A4L220198 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: A4L280000-037 **Prep Batch #...:** 4363037					
Aluminum	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A3
Arsenic	89	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CN
Antimony	87	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A4
Lead	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CP
Barium	87	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A5
Selenium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CQ
Beryllium	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A6
Thallium	88	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CR
Cadmium	91	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A7
Calcium	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A8
Chromium	94	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1A9
Cobalt	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CA
Copper	91	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CC
Iron	96	(73 - 137)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CD

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220198 **Matrix.....:** SOLID

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CE
Manganese	92	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CF
Nickel	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CG
Potassium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CH
Silver	100	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CJ
Sodium	86	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CK
Vanadium	90	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CL
Zinc	93	(80 - 120)	SW846 6010B Dilution Factor: 1	12/28-12/30/04	G1TXR1CM
Mercury	99	(73 - 123)	SW846 7471A Dilution Factor: 1	12/28-01/03/05	G1TXR1CT

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

TOTAL Metals

Lot-Sample #...: A4L210179-017 Matrix.....: SO

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Magnesium	7500	689	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1A7
		Dilution Factor: 1		MDL.....: 2.9		
Manganese	277	2.1	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AA
		Dilution Factor: 1		MDL.....: 0.43		
Nickel	17.0	5.5	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AC
		Dilution Factor: 1		MDL.....: 0.23		
Potassium	2110	689	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AD
		Dilution Factor: 1		MDL.....: 5.0		
Silver	ND	1.4	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AE
		Dilution Factor: 1		MDL.....: 0.15		
Sodium	176 B	689	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AF
		Dilution Factor: 1		MDL.....: 96.5		
Vanadium	19.6	6.9	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AG
		Dilution Factor: 1		MDL.....: 0.15		
Zinc	51.5 E	2.8	mg/kg	SW846 6010B	12/28-01/04/05	G1K1F1AH
		Dilution Factor: 1		MDL.....: 1.2		
Mercury	0.016 B	0.14	mg/kg	SW846 7471A	12/28-01/03/05	G1K1F1AN
		Dilution Factor: 1		MDL.....: 0.0062		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

E Matrix interference.

B Estimated result. Result is less than RL.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Conestoga-Rovers & Associates, Inc.

Client Sample ID: S-122004-DS-117

TOTAL Metals

Lot-Sample #...: A4L210179-017 Matrix.....: SO
Date Sampled...: 12/20/04 17:35 Date Received..: 12/21/04
% Moisture.....: 27

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 4363035						
Aluminum	7340	27.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 3.2	12/28-01/04/05	G1K1F1AV
Arsenic	4.6	1.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.55	12/28-01/04/05	G1K1F1AJ
Lead	10.5 E	0.41 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.32	12/28-01/04/05	G1K1F1AK
Antimony	0.69 B,J	8.3 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.32	12/28-01/04/05	G1K1F1AW
Barium	208	27.6 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.21	12/28-01/04/05	G1K1F1AX
Selenium	ND	0.69 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.37	12/28-01/04/05	G1K1F1AL
Beryllium	0.21 B,E	0.69 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.043	12/28-01/04/05	G1K1F1A0
Thallium	ND	1.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.48	12/28-01/04/05	G1K1F1AM
Cadmium	0.19 B	0.69 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.032	12/28-01/04/05	G1K1F1A1
Calcium	20200	689 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 20.7	12/28-01/04/05	G1K1F1A2
Chromium	12.3	1.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.17	12/28-01/04/05	G1K1F1A3
Cobalt	6.8 B	6.9 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.14	12/28-01/04/05	G1K1F1A4
Copper	18.2	3.4 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 0.22	12/28-01/04/05	G1K1F1A5
Iron	12200 J	13.8 Dilution Factor: 1	mg/kg	SW846 6010B MDL.....: 5.9	12/28-01/04/05	G1K1F1A6

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4L220198 **Work Order #...:** G1NDP1D0-MS **Matrix.....:** SO
MS Lot-Sample #: A4L220198-001 G1NDP1D1-MSD
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04
Prep Date.....: 01/03/05 **Analysis Date..:** 01/03/05
Prep Batch #...: 5005200
Dilution Factor: 0.86

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	**79**	**(55 - 138)**			**SW846 8260B**
	81	**(55 - 138)**	**7.0**	**(0-20)**	**SW846 8260B**
Chlorobenzene	**87**	**(49 - 139)**			**SW846 8260B**
	87	**(49 - 139)**	**5.1**	**(0-22)**	**SW846 8260B**
1,1-Dichloroethene	**85**	**(43 - 147)**			**SW846 8260B**
	95	**(43 - 147)**	**17**	**(0-27)**	**SW846 8260B**
Toluene	**90**	**(46 - 147)**			**SW846 8260B**
	92	**(46 - 147)**	**7.3**	**(0-24)**	**SW846 8260B**
Trichloroethene	**77**	**(46 - 143)**			**SW846 8260B**
	78	**(46 - 143)**	**6.5**	**(0-23)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	83	(59 - 138)
	85	(59 - 138)
1,2-Dichloroethane-d4	73	(61 - 130)
	74	(61 - 130)
Toluene-d8	87	(60 - 143)
	88	(60 - 143)
4-Bromofluorobenzene	87	(47 - 158)
	87	(47 - 158)

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 Semivolatiles

Client Lot #...: A4L220198 **Work Order #...:** G1NDP1AC-MS **Matrix.....:** SO
MS Lot-Sample #: A4L220198-001 G1NDP1AD-MSD
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04
Prep Date.....: 12/27/04 **Analysis Date..:** 01/04/05
Prep Batch #...: 4362352
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	**66**	**(13 - 133)**			**SW846 8270C**
	75	**(13 - 133)**	**13**	**(0-44)**	**SW846 8270C**
4-Chloro-3-methylphenol	**70**	**(17 - 128)**			**SW846 8270C**
	59	**(17 - 128)**	**16**	**(0-55)**	**SW846 8270C**
2-Chlorophenol	**54**	**(17 - 116)**			**SW846 8270C**
	80	**(17 - 116)**	**39**	**(0-54)**	**SW846 8270C**
2,4-Dinitrotoluene	**68**	**(10 - 171)**			**SW846 8270C**
	65	**(10 - 171)**	**4.0**	**(0-45)**	**SW846 8270C**
4-Nitrophenol	**78**	**(10 - 148)**			**SW846 8270C**
	66	**(10 - 148)**	**17**	**(0-64)**	**SW846 8270C**
N-Nitrosodi-n-propyl-amine	**69**	**(12 - 128)**			**SW846 8270C**
	91	**(12 - 128)**	**28**	**(0-50)**	**SW846 8270C**
Pentachlorophenol	**49**	**(10 - 144)**			**SW846 8270C**
	38	**(10 - 144)**	**25**	**(0-87)**	**SW846 8270C**
Phenol	**57**	**(10 - 148)**			**SW846 8270C**
	66	**(10 - 148)**	**15**	**(0-50)**	**SW846 8270C**
	72	**(10 - 218)**	**11**	**(0-66)**	**SW846 8270C**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	61	(42 - 110)
	67	(42 - 110)
2-Fluorobiphenyl	55	(43 - 110)
	67	(43 - 110)
Terphenyl-d14	82	(37 - 137)
	80	(37 - 137)
Phenol-d5	58	(25 - 115)
	79	(25 - 115)
2-Fluorophenol	57	(11 - 116)
	65	(11 - 116)
2,4,6-Tribromophenol	56	(35 - 116)
	56	(35 - 116)

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 #...: A4L220198 **Matrix.....:** SO
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: A4L220198-001 **Prep Batch #...:** 4363037							
Aluminum	NC,MSB	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AF
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1AG
		Dilution Factor: 1					
Arsenic	84	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1C8
	83	(75 - 125)	0.55	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1C9
		Dilution Factor: 1					
Antimony	35 N	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AJ
	36 N	(75 - 125)	2.0	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1AK
		Dilution Factor: 1					
Lead	83	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1DC
	81	(75 - 125)	2.4	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1DD
		Dilution Factor: 1					
Barium	86	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AM
	88	(75 - 125)	0.80	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1AN
		Dilution Factor: 1					
Selenium	83	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1DF
	82	(75 - 125)	0.87	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1DG
		Dilution Factor: 1					
Beryllium	84	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AQ
	83	(75 - 125)	1.1	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1AR
		Dilution Factor: 1					
Thallium	79	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1DJ
	79	(75 - 125)	0.49	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1DK
		Dilution Factor: 1					
Cadmium	81	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AU
	82	(75 - 125)	0.57	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1AV
		Dilution Factor: 1					
Calcium	89	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1AX
	60 N	(75 - 125)	7.9	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1A0
		Dilution Factor: 1					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220198 **Matrix.....:** SO
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	97	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1A2
	96	(75 - 125)	1.0	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1A3
		Dilution Factor: 1					
Cobalt	80	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1A5
	83	(75 - 125)	3.2	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1A6
		Dilution Factor: 1					
Copper	84	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1A8
	83	(75 - 125)	0.79	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1A9
		Dilution Factor: 1					
Iron	NC,MSB	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CC
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CD
		Dilution Factor: 1					
Magnesium	94	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CF
	83	(75 - 125)	5.6	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CG
		Dilution Factor: 1					
Manganese	NC,MSB	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CJ
	NC,MSB	(75 - 125)		(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CK
		Dilution Factor: 1					
Nickel	78	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CM
	86	(75 - 125)	6.7	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CN
		Dilution Factor: 1					
Potassium	88	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CQ
	87	(75 - 125)	0.72	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CR
		Dilution Factor: 1					
Silver	92	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CU
	92	(75 - 125)	0.10	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1CV
		Dilution Factor: 1					
Sodium	81	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1CX
	80	(75 - 125)	1.2	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1C0
		Dilution Factor: 1					
Vanadium	92	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1C2
	93	(75 - 125)	0.63	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1C3
		Dilution Factor: 1					

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: A4L220198 **Matrix.....:** SO
Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Zinc	86	(75 - 125)			SW846 6010B	12/28-12/30/04	G1NDP1C5
	84	(75 - 125)	1.5	(0-20)	SW846 6010B	12/28-12/30/04	G1NDP1C6
		Dilution Factor: 1					
Mercury	100	(10 - 199)			SW846 7471A	12/28-01/03/05	G1NDP1DM
	101	(10 - 199)	1.7	(0-50)	SW846 7471A	12/28-01/03/05	G1NDP1DN
		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 were not calculated because the sample amount was greater than four times the spike amount.

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L220198 **Work Order #...:** G1NDP-SMP G1NDP-DUP **Matrix.....:** SO

Date Sampled...: 12/21/04 09:12 **Date Received..:** 12/22/04

% Moisture.....: 26

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #: A4L220198-001		
	74.2	75.2	%	1.3	(0-20)	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A4L220198 **Work Order #...:** G1PVN-SMP G1PVN-DUP **Matrix.....:** SOLID

Date Sampled...: 12/21/04 11:15 **Date Received..:** 12/22/04

% Moisture.....: 58

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Percent Solids						SD Lot-Sample #:	A4L220362-001	
	42.5	41.7	%	1.8	(0-20)	MCAWW 160.3 MOD	12/29-12/30/04	4364283

Dilution Factor: 1

CONESTOGA-ROVERS & ASSOCIATES
8615 W. Bryn Mawr Avenue
Chicago, Illinois 60631
(773)380-9933 phone
(773)380-6421 fax

CHAIN-OF-CUSTODY RECORD

SHIPPED TO (Laboratory Name): Severn Trent North Canton, OH

REFERENCE NUMBER: 12559-52

PROJECT NAME: CIII FAIR FAX I

SAMPLER'S SIGNATURE: [signature] **PRINTED NAME:** Cody CANTRELL

SEQ. No.	DATE	TIME	SAMPLE IDENTIFICATION No.	SAMPLE MATRIX	No. OF CONTAINERS	PARAMETERS: TAL VOC	TAL SVOC	TAL METALS	REMARKS
	12/21	0912	S-122104-DS-118	SL	11	X	X	X	Include MS/MSD
	12/21	1020	S-122104-DS-119		5	X	X	X	
	12/21	1117	S-122104-DS-120		5	X	X	X	Call Pat Klick
	12/21	1208	S-122104-DS-121		5	X	X	X	for questions
	12/21	1245	S-122104-DS-122		5	X	X	X	
	12/21	1415	S-122104-DS-123		5	X	X	X	SSOW #095001
	12/21	1444	S-122104-DS-124		5	X	X	X	
~~Dup~~									

TOTAL NUMBER OF CONTAINERS 41

RELINQUISHED BY: (1) [signature]	DATE: 12/20/04 TIME: 1630	RECEIVED BY: (2)	DATE: TIME:
RELINQUISHED BY: (2)	DATE: TIME:	RECEIVED BY: (3)	DATE: TIME:
RELINQUISHED BY: (3)	DATE: TIME:	RECEIVED BY: (4)	DATE: TIME:

METHOD OF SHIPMENT: FedEx **AIR BILL No.**

White -Fully Executed Copy
Yellow -Receiving Laboratory Copy
Pink -Shipper Copy
Goldenrod -Sampler Copy

SAMPLE TEAM: CANTRELL / Shield / Kendrick

RECEIVED FOR LABORATORY BY: [signature] DATE: 12/22/04 TIME: 10:40

12317

1001-00(SOURCE)GN-CO004

STL North Canton

88

STL Cooler Receipt Form/Narrative **Lot Number:** 44L220198

North Canton Facility

Client: CRA Project: GM-Fairfax Quote#: 62183

Cooler Received on: 12/22/04 Opened on: 12/22/04 by: _____ (Signature)

Fedx ☒ Client Drop Off ☐ UPS ☐ DHL ☐ FAS ☐ Other: _____

STL Cooler No# See back Foam Box ☐ Client Cooler ☐ Other ___

1. Were custody seals on the outside of the cooler? Yes ☒ No ☐ Intact? Yes ☒ No ☐ NA ☐
   If YES, Quantity 2
   Were the custody seals signed and dated? Yes ☐ No ☒ NA ☐
2. Shipper's packing slip attached to this form? Yes ☒ No ☐ NA ☐
3. Did custody papers accompany the samples? Yes ☒ No ☐ Relinquished by client? Yes ☒ No ☐
4. Did you sign the custody papers 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/temp)

METHOD: Temp Vial ☐ Coolant & Sample ☐ Against Bottles ☐ IR ☒ ICE/H_2O Slurry ☐

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 and/or tags be reconciled with the COC?	Yes ☒	No ☐
9.	Were samples at the correct pH? (record below/on back)	Yes ☐	No ☒ NA ☐
10.	Were correct bottles used for the tests 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 ☐

Contacted PM _____ Date: _____ by: _____ via Voice Mail ☐ Verbal ☐ Other ☐

Concerning: _____

√	
	1. CHAIN OF CUSTODY
	The following discrepancies occurred:
	2. SAMPLE CONDITION
	Sample(s) _____ were received after the recommended holding time had expired.
	Sample(s) _____ were received in a broken container.
	3. SAMPLE PRESERVATION
	Sample(s) 005 (1x1L) + 011 (3x1L) w/ HNO3 were further preserved in sample receiving to meet recommended pH level(s). *Nitric Acid Lot # 101104HNO3; Sulfuric Acid Lot # 102804-H2SO4; Sodium Hydroxide Lot # -082404-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 071604-CH3COO2ZN/NaOH*
	Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)
	4. Other (see below or back)

Client ID	pH	Date	Initials
005	<2 <2 <2 <2	12/22/04	JH
011	<2 <2 <2 <2 <2 <2		

STL Cooler Receipt Form/Narrative
North Canton Facility

Client ID	pH	Date	Initials

Cooler	Temp	Method	Coolant
1 (8/12	3.3°C	IR	Ice
2 1	3.8°C	TR	Ice

Discrepancies Cont.

SEVERN TRENT STL

END OF REPORT

APPENDIX C

DATA VALIDATION MEMORANDUM

CONESTOGA-ROVERS & ASSOCIATES

14496 Sheldon Road, Suite #200
Plymouth, Michigan 48170
Telephone: (734) 453-5123 Fax: (734) 453-5201
www.CRAworld.com

MEMORANDUM

TO: Phil Harvey

REF. NO.: 012559-52

FROM: Julie Czech/lg/3

DATE: January 31, 2005

RE: **Data Quality Assessment and Validation**
Soil and Groundwater Sampling Event
General Motors – Former Fairfax I Plant Site
Kansas City, Kansas

The following details a quality assessment and validation of the analytical data resulting from the collection of soil and groundwater samples collected from the General Motors Former Fairfax I Plant in Kansas City, Kansas on December 20 and 21, 2004. The sample summary detailing sample identification, sample location, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories in North Canton, Ohio (STL) in accordance with the methodologies presented in Table 2. The QC criteria used to assess the data were established by the methods and following documents:

i) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", USEPA 540/R-99/008, October 1999; and

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", EPA 540/R-94-013, February 1994.

The data quality assessment and validation presented in the following subsections were performed based on the sample results and supporting quality assurance/quality control (QA/QC) provided.

Holding Time Period and Sample Analysis

The holding time periods are presented in the analytical methods. All samples were prepared and analyzed within the method-required holding times. All samples were properly preserved and cooled to 4°C (±2°C) after collection.

Method Blank Samples

Method blanks are prepared and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the procedures.

For this study, method blanks were analyzed at a minimum frequency of one per analytical batch. The blank results were non-detect for the analytes of interest with the exception of some analytes present at low concentrations. All associated results with similar concentrations were qualified as non-detect (see Table 3).

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

In accordance with the methods employed, all samples, blanks, and standards analyzed for VOCs and SVOCs are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of individual sample matrices on analytical efficiency and are assessed against method control limits. For the SVOC method, it is acceptable for one surrogate recovery per fraction (base neutral or acid phenolic) to fall outside of these limits, provided it is greater than 10 percent.

The majority of surrogate recoveries were within acceptance criteria. Table 4 presents outlying surrogate data from one sample and the associated sample results that should be qualified. All remaining surrogate recoveries were within the lab-specified control limits demonstrating acceptable analytical accuracy for non-diluted samples.

Laboratory Control Sample Analysis

The laboratory control sample (LCS) serves as a measure of overall analytical performance. LCSs are prepared with all analytes of interest and analyzed with each sample batch. Some LCSs are prepared and analyzed in duplicate.

LCSs were prepared and analyzed for all parameters. The LCS recoveries were within the QAPP specified control limits for all analytes of interest demonstrating acceptable overall analytical accuracy and precision (where applicable).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Percent Recoveries

MS/MSD samples are prepared using a representative subset of analytes for each parameter and analyzed with each sample batch for the organic parameters. Matrix spike/duplicate (MS/Dup) samples are prepared and analyzed with the samples for metals. The recoveries of spike analyses are used to assess the analytical accuracy achieved on individual sample matrices. If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. The relative percent difference (RPD) between the MS and MSD or the original sample and the Dup are used to assess analytical precision.

Table 5 presents the sample data that should be qualified. The remaining MS/MSD data were acceptable, indicating good analytical accuracy and precision.

Field Quality Assurance/Quality Control (QA/QC)

The field QA/QC consisted of two trip blank samples, two equipment blank samples, and one field duplicate sample set.

Trip Blanks – VOCs

Trip blanks are transported, stored, and analyzed with the investigative samples to identify potential cross-contamination of VOCs. Trip blanks were collected at the proper frequency, and all results were non-detect for the analytes of interest with the exception of some analytes present at low concentrations. All associated results with similar concentrations were qualified as non-detect (see Table 6).

Equipment Blanks

Equipment blanks are collected and submitted for analysis to identify possible contamination introduced during sample collection and/or analysis. Two equipment blanks were collected and analyzed and the results were non-detect for the analytes of interest with the exception of some analytes present at low concentrations. All associated, but not previously qualified, results with similar concentrations were qualified as non-detect (see Table 7).

Field Duplicate Sample Set

Overall precision for the sampling event was monitored using one field duplicate sample set: GW-122104-DS-012/GW-122104-DS-DUP. The relative percent difference (RPD) values for positive parameter results were found to be acceptable (RPD values less than or equal to 50), indicating an adequate level of precision was achieved, with one exception. The acetophenone data for samples GW-122104-DS-012 and GW-122104-DS-DUP should be qualified as estimated (J).

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used as reported.

TABLE 1

SAMPLE IDENTIFICATION NUMBER
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample ID	*Sample ID Location; Depth (ft bgs)* [1]	*Analysis* [2]
S-122004-DS-101	SB-101; 8-10	TCL VOC, NAP
S-122004-DS-102	SB-101; 12-14	TCL VOC, NAP
S-122004-DS-103	SB-102; 8-10	TCL VOC, NAP
S-122004-DS-104	SB-102; 12-14	TCL VOC, NAP
S-122004-DS-105	SB-103; 8-10	TCL VOC, NAP
S-122004-DS-106	SB-103; 12-14	TCL VOC, NAP
S-122004-DS-107	SB-104; 8-10	TCL VOC, NAP
S-122004-DS-108	SB-104; 12-14	TCL VOC, NAP
S-122004-DS-109	SB-105; 8-10	TCL VOC, NAP
S-122004-DS-110	SB-105; 12-14	TCL VOC, NAP
S-122004-DS-111	SB-106; 8-10	TCL VOC, FOC
S-122004-DS-112	SB-106; 12-14	TCL VOC, FOC
S-122004-DS-113	SB-107; 8-10	TCL VOC, FOC
S-122004-DS-114	SB-107; 12-14	TCL VOC, FOC
S-122004-DS-115	SB-108; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122004-DS-116	SB-109; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122004-DS-117	SB-110; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-118	SB-111; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-119	SB-112; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-120	SB-113; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-121	SB-114; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-122	SB-115; 10-12	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-123	SB-116; 4-6	TCL VOC, TCL SVOC, TAL Metals
S-122104-DS-124	SB-117; 4-6	TCL VOC, TCL SVOC, TAL Metals
GW-122004-DS-001	Rinsate (SB-104)	TCL VOC
GW-122004-DS-002	Rinsate (SB-110)	TCL VOC, TCL SVOC, TAL Total Metals
GW-122004-DS-003	MW-105	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122004-DS-004	Trip Blank	TCL VOC
GW-122104-DS-005	MW-109	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-006	MW-1	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-007	MW-160A	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-008	MW-110A	TCL VOC, TCL SVOC, TAL Total Metals, NAP
GW-122104-DS-010	Trip Blank	TCL VOC
GW-122104-DS-011	MW-111	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-012	MW-110	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-DUP	MW-110 Duplicate	TCL VOC, TCL SVOC, TAL Total Metals
GW-122104-DS-013	MW-1A	TCL VOC, TCL SVOC, TAL Total Metals

TABLE 1

SAMPLE IDENTIFICATION NUMBER
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

[1] ft bgs - feet below ground surface

[2] TCL VOC - target compound list volatile organic compounds
NAP - natural attenuation parameters (total and dissolved calcium, magnesium, and manganese, total kjeldahl nitrogen, ammonia-N, nitrate-N, chemical oxygen demand, total organic carbon, ortho phosphate, and pH)
FOC - fraction of organic carbon
TCL SVOC - target compound list semivolatile organic compounds
TAL Metals - target analyte list metals

TABLE 2

SUMMARY OF ANALYTICAL METHODS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Parameter	*Analytical Method* [1]	
VOCs	SW-846	8260B
SVOCs	SW-846	8270C
Metals (total and dissolved)	SW-846	6010B/7471A/7470A
FOC	ASTM	D2974
Total Kjeldahl Nitrogen	MCAWW	351.3
Ammonia Nitrogen	MCAWW	350.3
Nitrate	MCAWW	300.0A
Chemical Oxygen Demand	MCAWW	410.4
Total Organic Carbon	MCAWW	415.1
ortho-Phosphate	MCAWW	365.2

[1] SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA SW-846, 3rd Edition with Updates I through III, November 1986.
ASTM - Annual Book of ASTM Standards
MCAWW - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

TABLE 3

RESULTS QUALIFIED BASED ON METHOD BLANK DETECTIONS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Method	*Batch*	*Analyte*	*Blank Conc.*	*Associated Samples*	*Qualifier* [1]
8270C	4362021	bis(2-Ethylhexyl)phthalate	0.91µg/L	GW-122104-DS-011	10U
				GW-122104-DS-006	10U
				GW-122104-DS-012	10U
8270C	4362022	bis(2-Ethylhexyl)phthalate	1.3µg/L	GW-122104-DS-DUP	10U
				GW-122104-DS-007	10U
				GW-122104-DS-008	10U
8270C	4357051	Caprolactum	26µg/kg	S-122104-DS-117	450U
8270C	4356549	Caprolactum	0.79µg/L	GW-122004-DS-002	10U
				GW-122004-DS-003	10U
6010B	4363030	Chromium	0.0028mg/L	GW-122104-DS-005	0.0033U
6010B	4363030	Vanadium	0.0012mg/L	GW-122104-DS-005	0.0012U
6010B	4363037	Nickel	0.37mg/kg	S-122104-DS-124	1.2U
6010B	4363037	Sodium	80.7mg/kg	S-122104-DS-118	189U
				S-122104-DS-119	121U
				S-122104-DS-121	144U
				S-122104-DS-122	154U
				S-122104-DS-123	218U
6010B	4363035	Antimony	0.51mg/kg	S-122104-DS-115	0.39U
				S-122104-DS-116	0.51U
				S-122104-DS-117	0.69U
6010B	4363026	Aluminum	0.046mg/L	GW-122004-DS-003	0.033U
6010B	4363026	Cadmium	0.00042mg/L	GW-122004-DS-002	0.00036U

TABLE 3

RESULTS QUALIFIED BASED ON METHOD BLANK DETECTIONS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Method	*Batch*	*Analyte*	*Blank Conc.*	*Associated Samples*	*Qualifier* [1]
6010B	4362038	Aluminum	0.051mg/L	GW-122104-DS-006	0.064U
				GW-122104-DS-012	0.066U
				GW-122104-DS-DUP	0.073U
				GW-122104-DS-007	0.094U
				GW-122104-DS-008	0.053U
				GW-122104-DS-013	0.054U
6010B	4362038	Beryllium	0.00064mg/L	GW-122104-DS-006	0.00074U
				GW-122104-DS-012	0.00078U
				GW-122104-DS-DUP	0.00079U
				GW-122104-DS-007	0.00070U
				GW-122104-DS-008	0.00078U
				GW-122104-DS-013	0.00079U
6010B	4362038	Thallium	0.0075mg/L	GW-122104-DS-006	0.0067U
				GW-122104-DS-012	0.0090U
				GW-122104-DS-DUP	0.0061U
6010B	4362038	Cadmium	0.00053mg/L	GW-122104-DS-006	0.00051U
				GW-122104-DS-008	0.00061U
350.3	4365465	Ammonia Nitrogen	0.09mg/L	GW-122104-DS-005	0.09U
				GW-122004-DS-003	0.2U
365.2	4357504	ortho-Phosphate	0.01mg/L	GW-122104-DS-005	0.02U
				GW-122004-DS-003	0.009U
365.2	4366010	ortho-Phosphate	0.1mg/kg	S-122004-DS-101	0.2U
				S-122004-DS-102	0.1U
				S-122004-DS-103	0.2U
				S-122004-DS-104	0.2U
				S-122004-DS-105	0.2U
				S-122004-DS-106	0.2U
				S-122004-DS-107	0.4U
				S-122004-DS-108	0.3U
				S-122004-DS-109	0.3U
				S-122004-DS-110	0.2U

TABLE 3

RESULTS QUALIFIED BASED ON METHOD BLANK DETECTIONS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Method	*Batch*	*Analyte*	*Blank Conc.*	*Associated Samples*	*Qualifier* [1]
8260B	4364523	Acetone	120µg/kg	S-122004-DS-102	2400000U
				S-122004-DS-110	710000U
				S-122004-DS-112	1200U
8260B	4364523	Toluene	14µg/kg	S-122004-DS-103	5800U

[1] Organics: U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit. Inorganics: U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is an estimate and may be inaccurate or imprecise.

TABLE 4

OUTLYING SURROGATE RECOVERY DATA
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Method	*Sample ID*	*Surrogate*	*Surrogate %R*	*%R Limits*	*Qualifier* [1]
8260B	S-122004-DS-106	1,2-Dichloroethane-d_4	58	61-130	J/UJ

[1] Detected and non-detected VOC results for the sample should be qualified as, respectively:
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

TABLE 5

OUTLYING MS/MSD SAMPLE DATA
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample ID	*Method*	*Batch*	*Analyte*	*MS %R*	*MSD %R*	*%R Limits*	*RPD*	*RPD Limits*	*Qualifier*[1]	*Associated Samples*
S-122104-DS-118	6010B	4363037	Antimony	35	36	75-125	2.0	0-20	UJ	S-122104-DS-118
									UJ	S-122104-DS-119
									UJ	S-122104-DS-120
									UJ	S-122104-DS-121
									UJ	S-122104-DS-122
									UJ	S-122104-DS-123
									UJ	S-122104-DS-124
S-122104-DS-118	6010B	4363037	Calcium	89	60	75-125	7.9	0-20	J	S-122104-DS-118
									J	S-122104-DS-119
									J	S-122104-DS-120
									J	S-122104-DS-121
									J	S-122104-DS-122
									J	S-122104-DS-123
									J	S-122104-DS-124
GW-122104-DS-006	6010B	4362038	Manganese	44	53	75-125	2.6	0-20	J	GW-122104-DS-006
									J	GW-122104-DS-012
									J	GW-122104-DS-DUP
									J	GW-122104-DS-007
									J	GW-122104-DS-008
									J	GW-122104-DS-013

TABLE 5

OUTLYING MS/MSD SAMPLE DATA
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Sample ID	*Method*	*Batch*	*Analyte*	*MS %R*	*MSD %R*	*%R Limits*	*RPD*	*RPD Limits*	*Qualifier*[1]	*Associated Samples*
S-122004-DS-101	351.3	5004445	Total Kjeldahl Nitrogen	70	42	50-120	18	0-50	J	S-122004-DS-101
									J	S-122004-DS-102
									J	S-122004-DS-103
									J	S-122004-DS-104
									J	S-122004-DS-105
									J	S-122004-DS-106
									J	S-122004-DS-107
									UJ	S-122004-DS-108
									J	S-122004-DS-109
									J	S-122004-DS-110
GW-122004-DS-003	351.3	5003487	Total Kjeldahl Nitrogen	101	72	10-200	33	0-20	UJ	GW-122004-DS-003

[1] Sample results should be qualified as:

UJ - The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise.

J - The associated value is an estimated quantity.

TABLE 6

RESULTS QUALIFIED BASED ON TRIP BLANK DETECTIONS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Trip Blank Sample ID	*Method*	*Analyte*	*Blank Conc.*	*Associated Samples*	*Qualifier*[1]
GW-122004-DS-004	8260B	Acetone	1.6µg/L	GW-122004-DS-001	10U
				GW-122004-DS-002	10U
				GW-122004-DS-003	10U
GW-122004-DS-004	8260B	Trichloroethene	0.67µg/L	GW-122004-DS-003	1.0U

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

TABLE 7

RESULTS QUALIFIED BASED ON RINSATE BLANK DETECTIONS
FORMER GM-FAIRFAX I PLANT SITE
KANSAS CITY, KANSAS

Rinsate Sample ID	*Method*	*Analyte*	*Blank Conc.*	*Associated Samples*	*Qualifier* [1]
GW-122004-DS-002	8270C	bis(2-Ethylhexyl)phthalate	1.2µg/L	S-122004-DS-117	450U
GW-122004-DS-002	6010B	Cadmium	0.00036mg/L	S-122004-DS-115	0.20U
				S-122004-DS-116	0.15U
				S-122004-DS-117	0.19U

[1] Organics: U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
Inorganics: U - The material was analyzed for, but was not detected above the level of the associated value. The associated value is an estimate and may be inaccurate or imprecise.