Soil Containing PCB Cleanup Completion Summary Report

Former Grand Rapids Metal Plant
Former Bulk Unload and Tar House Areas

RACER Trust

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Prepared For: RACER Trust

200 West Allegan Street, Suite 300, Plainwell, Michigan 49080

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1. Introduction/Applicability

GHD Services, Inc. (GHD) has prepared this Polychlorinated Biphenyl (PCB) Cleanup Completion Summary Report (Report) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The Site location is presented on Figure 1.1. A Site Plan is presented on Figure 1.2.

On August 26, 2014, RACER Trust, after consultation with the Michigan Department of Environmental Quality (MDEQ), requested a Toxic Substances Control Act (TSCA) of 1976 Coordinated Approval for a Risk-Based PCB Cleanup Plan in accordance with the requirements of Title 40 of the Code of Federal Regulations (CFR) §761.77(c) for the Site. In accordance with 40 CFR §761.77(a), RACER identified that the Risk-Based PCB Cleanup Plan included previous relevant Michigan Act 451, Part 201 (Part 201) facility (Part 201 Site List Identification No. 41000115) site investigation information. The Risk-Based PCB Cleanup Plan was prepared for the former Tar House and Bulk Unload Areas in accordance with the procedures set forth in 40 CFR §761.61(c) as an application to the United States Environmental Protection Agency (U.S. EPA) to implement a cleanup of Site-related PCB contamination under the risk-based cleanup option and included applicable aspects of the self-implementation alternative described in 40 CFR §761.61(a). The Risk-Based PCB Cleanup Plan was submitted to the United States Environmental Protection Agency (U.S. EPA) – Region 5, the MDEQ, and the Kent County Health Department (KCHD) in accordance with the procedures set forth in 40 CFR §761.61 of TSCA.

Subsequent to U.S. EPA review of the Risk-Based Plan, it was determined by U.S. EPA that the proposed cleanup could be completed under the self-implementing cleanup guidelines for bulk PCB remediation waste specified under 40 CFR §761.61(a). Additionally, U.S. EPA requested that the surface materials (concrete and asphalt) be characterized according to self-implementing cleanup guidelines. The proposed porous surface sampling plan, results of sampling, and RACER's intention to complete the self-implementing cleanup were included in two separate addendum letters submitted to U.S. EPA on November 18, 2014 and March 3, 2015. Approval to complete the self-implementing cleanup was received from U.S. EPA on March 30, 2015.

This Report has been prepared for submittal to U.S. EPA – Region 5 in accordance with conditions specified in U.S. EPA's March 30, 2015 approval of the cleanup. Copies of the proposed cleanup plan, addenda and U.S. EPA approval letter are presented in Appendix A.

1.1 Site Background

General Motors Corporation (GMC) initiated automotive manufacturing operations at the Site in 1936. Operations ceased at the Site on June 30, 2010. GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC) retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites formerly owned by MLC, including the Site. The Site was sold to Thunder Ventures, who then transferred the property to the City of Wyoming Brownfield Redevelopment Authority (WBRA) on

June 28, 2011; however, RACER Trust retains certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC.

In 2012, the Site underwent redevelopment activities including decommissioning, demolition, and property re grading by contractors on behalf of Thunder Ventures. The majority of the historical structures at the Site were decommissioned and demolished, and the Site is currently being marketed for future redevelopment.

2. Site Characterization

Initial site characterization was completed prior to removal activities as presented in the Risk-Based PCB Cleanup Plan and subsequent Addenda. Copies of the aforementioned documents are presented in Appendix A.

Based on initial verification soil samples collected, additional removal of soil beyond the originally anticipated excavation limits was required and additional verification soil samples were collected (see Section 5).

3. Notification and Certification

The Risk-Based PCB Cleanup Plan was filed with the U.S. EPA, MDEQ, and KCHD in accordance with 40 CFR 761 on March 3, 2015, which was greater than 30 days prior to the cleanup initiation date of June 25, 2015.

A copy of the Notification of PCB Waste Activity Form (U.S. EPA Form 7710-53) was completed and submitted to the U.S. EPA for the Site consistent with 40 CFR §761.205 in 1990. A copy of the U.S. EPA form 7710-53 and subsequent correspondence is presented in Appendix B.

4. Site Cleanup Levels

The proposed cleanup level for on-Site contamination was 10 parts per million (ppm), which allowed for the areas to be utilized in a manner in the future that would meet the definition of a Low Occupancy Area under 40 CFR 761 without further conditions. The 10 ppm cleanup level allows for use of the areas in a manner in the future that with the addition of a cap and approval from U.S. EPA would meet the requirements for a High Occupancy Area.

5. Site Cleanup

The bulk PCB remediation waste removal activities were conducted between June 26, 2015 and July 28, 2015.

Prior to mobilization, the areas in which removal activities were required were identified by locating previously surveyed boring locations. The prior boring locations were utilized to mark the extents of the anticipated excavation boundaries.

A temporary decontamination pad was constructed prior to initiation of the excavation activities. Soils containing concentrations of PCBs greater than 10 ppm were excavated using a hydraulic excavator by RACER's contractor, Terra Contracting Services, LLC (Terra). Excavated soils were transferred directly from the excavation into haul trucks for transportation to the landfill based on the in-situ characterization. The trucks were equipped with covers (i.e., tarps) to prevent the loss of any soils during transportation. The final excavation extents were surveyed by a professional surveyor, with an accuracy of 0.1 feet (ft).

5.1 Former Tar House Area

5.1.1 Excavation Activities

Concrete/asphalt cutting was completed in order to remove the surface materials overlying the soil in the Tar House area. All concrete/asphalt overlying the tar house excavation area was segregated and transported for disposal separately from the underlying soil and debris at the request of the disposal facility.

Soils containing concentrations of PCBs greater than 10 ppm were excavated using a hydraulic excavator to a depth of approximately 5 ft below ground surface (bgs). Figure 5.1 shows the final excavation extent at the former Tar House Area.

A total of approximately 170 tons of soil containing PCBs were removed from the former Tar House Area. A total of approximately 26 tons of concrete/asphalt overlying the soil was also removed. During excavation activities a 32-inch diameter storm sewer was discovered in the southwest corner of the excavation. Several abandoned electrical and communications conduits were also discovered along the eastern boundary of the excavation. A manhole was present on the northern boundary of the excavation area. All soils and concrete/asphalt were transported to and disposed of at Waste Management, Inc.'s (WM) Autumn Hills Landfill in Zeeland, Michigan, in accordance with 40 CFR §761.61(a)(5). Copies of the waste manifests are included in Appendix C.

5.1.2 Backfilling Activities

The results of verification sampling indicated that concentrations of PCBs remaining in the excavation area were below the 10 ppm cleanup level. Prior to backfilling, a demarcation layer consisting of non-woven geotextile was placed on the floor of the excavation and orange snow fence was placed on the sidewalls of the excavation. Subsequent to excavation and verification sampling, the area was backfilled with clean fill material and covered with 2 inches of gravel. Analytical soil verification sample results are presented in Table 5.2. Figure 5.2 presents the verification sample locations and remaining concentrations of PCBs in soil in this area.

5.2 Former Bulk Unload Area

5.2.1 Excavation Activities

On June 25 and 26, 2015, a total of approximately 354 tons of asphalt, soil, and debris were removed from the former Bulk Unload Area. All soils were transported to and disposed of at WM's Autumn Hills Landfill in Zeeland, Michigan, in accordance with 40 CFR §761.61(a)(5). Copies of the waste manifests are included in Appendix C. During excavation activities, a former concrete fence footer was discovered approximately 1-foot bgs adjacent to the existing fence on the property line. Additionally, a concrete storm sewer was discovered directly underneath the former concrete fence

footer. The storm sewer was determined to be connected to the existing outfall at the northwest corner of the Site. An inspection of the interior of the storm sewer was completed and the pipe was found to be clean of any debris and dry. In an effort to preserve the existing storm sewer, soil was not removed underneath the sewer line and verification samples collected along the western sidewall were collected directly underneath the sewer line.

Results of verification sampling indicated that soils remaining in the floor and west sidewall (under the existing storm sewer) of the excavation contained PCBs at concentrations greater than the 10 ppm cleanup level. Additionally, an area in the northern portion of the excavation contained soils with a PCB concentration greater than 50 ppm requiring disposal at a TSCA-approved disposal facility. RACER notified U.S. EPA on July 13, 2015 that soil containing PCBs at a concentration above 50 ppm was discovered and would be disposed of in accordance with TSCA.

On July 28, 2015 approximately 33 tons of TSCA-regulated soil and debris were excavated, loaded into a lined truck, and transported for disposal at the Wayne Disposal, Inc. landfill in Belleville, Michigan operated by US Ecology. A copy of the waste manifest is provided in Appendix C. Additionally, approximately 21 tons of non-TSCA soil and debris (including a portion of the existing concrete storm sewer) was removed from the western sidewall and southern excavation floor for disposal at WM's Autumn Hills Landfill.

Additional verification sampling indicated that the remaining concentrations of PCBs were below the 10 ppm cleanup level, with the exception of a small area underneath the existing storm sewer in the southwest corner of the excavation. The soil underlying the storm sewer in this area was removed by hand digging in order to preserve the existing storm sewer on the south side of the manhole. The soil was removed and containerized into two 55-gallon drums prior to the drums being emptied, crushed, and loaded with additional asphalt debris into a truck for disposal at WM's Autumn Hills Landfill on August 4, 2015. Verification samples collected underneath the existing storm sewer and fence footer indicated that PCB concentrations were below the 10 ppm cleanup level.

Analytical soil verification sample results are presented in Table 5.3. The final excavation area and verification sample locations are presented on Figure 5.3. Results of verification sampling and remaining PCB concentrations in this area are presented on Figure 5.4.

5.2.2 Backfilling Activities

Following excavation and replacement of a portion of the storm sewer, the area was backfilled with clean fill material, covered with approximately 6 inches of gravel and approximately 2 inches of asphalt. Prior to backfilling, a demarcation layer consisting of non-woven geotextile was placed on the floor and walls of the excavation.

5.3 Decontamination

All movable equipment such as the excavator bucket and non-disposable tools (shovels) that contacted PCB impacted material were decontaminated consistent with the procedures specified in 40 CFR §761.79(c)(2)(ii). All decontamination water was collected in a lined roll off container and subsequently transferred into two 55-gallon drums. The liner was removed and placed into a separate 55-gallon drum.

A wipe sample was collected by Terra from the liner material and analyzed for PCBs. Results of the wipe sample analysis indicated that the liner material did not contain any concentration of PCBs.

The liner and the 55-gallon drum it was stored in were disposed of in accordance with 40 CFR §761.61(a).

A composite water sample was collected by Terra from the two 55-gallon drums of decontamination water and analyzed for PCBs. The results of the water sample identified a PCB concentration of 0.6 µg/L in the decontamination water. Based on the water sample results, the two drums were managed as regulated TSCA remediation waste. The drums were disposed of in accordance with 40 CFR §761.60(a) on October 15, 2015 at an approved incinerator operated by Veolia ES Solutions in Port Arthur, Texas.

A copy of the waste manifest for the drums of decontamination water is provided in Appendix C. Analytical laboratory reports for the wipe sample and decontamination water sample are provided in Appendix D.

6. Verification Sampling

Verification sampling was conducted consistent with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self Implementing Cleanup and On Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces." As discussed in Section 5, Table 5.1 presents a sample key for the final verification samples. Analytical soil sample results for the former Tar House and Bulk Unload Areas are presented in Tables 5.2 and 5.3, respectively. Verification sample analytical laboratory reports and GHD's data validation memorandum are included in Appendix E and Appendix F, respectively.

7. Cap Requirements

A cap was not utilized as part of this cleanup.

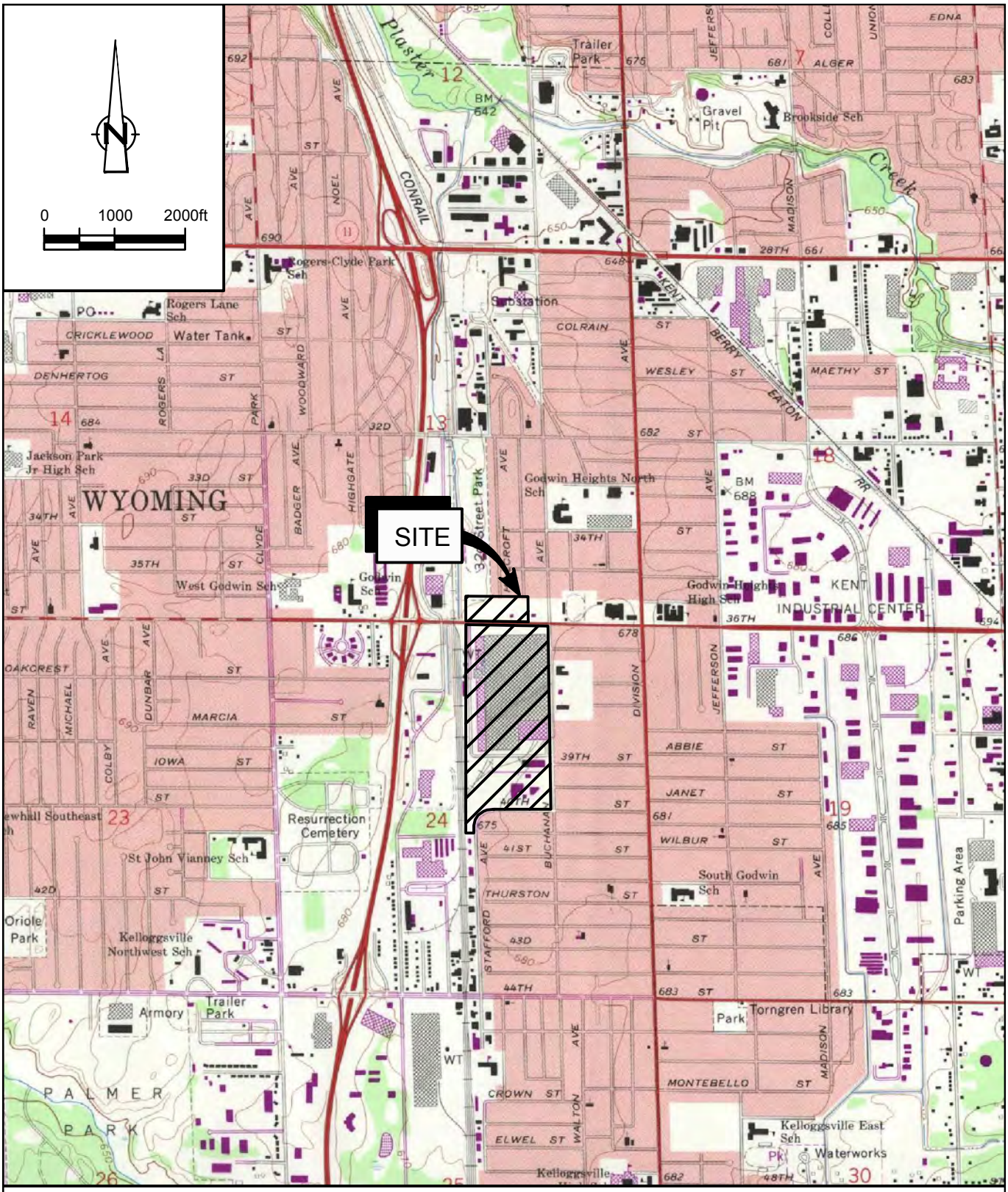
8. Deed Restrictions

As specified in the approved cleanup plan, a deed restriction meeting the requirements of 40 CFR §761.61(a)(8) will be filed restricting both areas to allow for use of the property for those uses and exposures that would meet the definition of a Low Occupancy Area. The Site is currently pursuing a "No Further Action" determination from the MDEQ in regards to non-PCB related soil and groundwater contamination at the Site. As part of the final Site remedy a Declaration of Restrictive Covenant (DRC) identifying land and resource use restrictions, in addition to the Low Occupancy Area designations, will be recorded with the Kent County Register of Deeds. The current property owner, the City of Wyoming, and MDEQ will need to review and approve a DRC before it can be recorded. A copy of the recorded DRC will be submitted to U.S. EPA upon completion and filing.

Soil sample locations (including excavation verification samples and unexcavated soil boring samples) that contain a concentration of greater than 1 ppm PCBs located in the Low Occupancy Areas are presented in Tables 8.1 and 8.2 for the former Tar House Area and Bulk Unload Area, respectively. The boundary of the proposed Low Occupancy Area for the former Tar House Area is presented on Figure 8.1. The boundary of the proposed Low Occupancy Area for the former Bulk Unload Area is presented on Figure 8.2.

9. Recordkeeping

Records of the implementation of the cleanup plan, including copies of analytical laboratory reports, data validation, and waste manifests will be kept consistent with the time requirements specified in 40 CFR §761.61(a)(9).



SOURCE: USGS QUADRANGLE MAP
GRAND RAPIDS WEST, MICHIGAN

figure 1.1

GRAND RAPIDS

SITE LOCATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

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RESIDENTIAL

COMMERCIAL

COMMERCIAL/INDUSTRIAL

COMMERCIAL/RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

BUCHANAN AVENUE

367TH STREET

407TH STREET

STAFFORD AVENUE

FORMER MAIN MANUFACTURING BUILDING

FORMER POWER HOUSE

FORMER PUMP HOUSE

FORMER 500,000 GALLON WATER STORAGE TANK

FORMER USED OIL AST

FORMER PRESS STAGING BUILDING

FORMER WWTP

FORMER BALER HOUSE

PRIMARY SWITCH HOUSE

GUARD HOUSE

TRUCK SCALE PIT

FORMER TAR HOUSE PCB AREA

FORMER BULK UNLOAD PCB AREA

STORM SEWER PUMP HOUSE

FORMER METAL STORAGE SHED

FORMER RACK MAKE-UP BUILDING

GOODWIN HEIGHTS PUBLIC SCHOOLS ATHLETIC FIELDS

STORM WATER RETENTION BASIN

CLAY AVENUE

SHOEMAKER PROPERTIES, LLC.

RYDER TRUCK RENTAL

S4GR, LLC. (CUMMINS)

S4GR, LLC.

3821 CLAY LLC.

KENDALL ELECTRIC, INC.

THE MACOMB GROUP

N

0 100 250ft

LEGEND

APPROXIMATE PROPERTY BOUNDARY

PCB IMPACTED SOIL REMEDIATION AREA

FENCE

RAILROAD

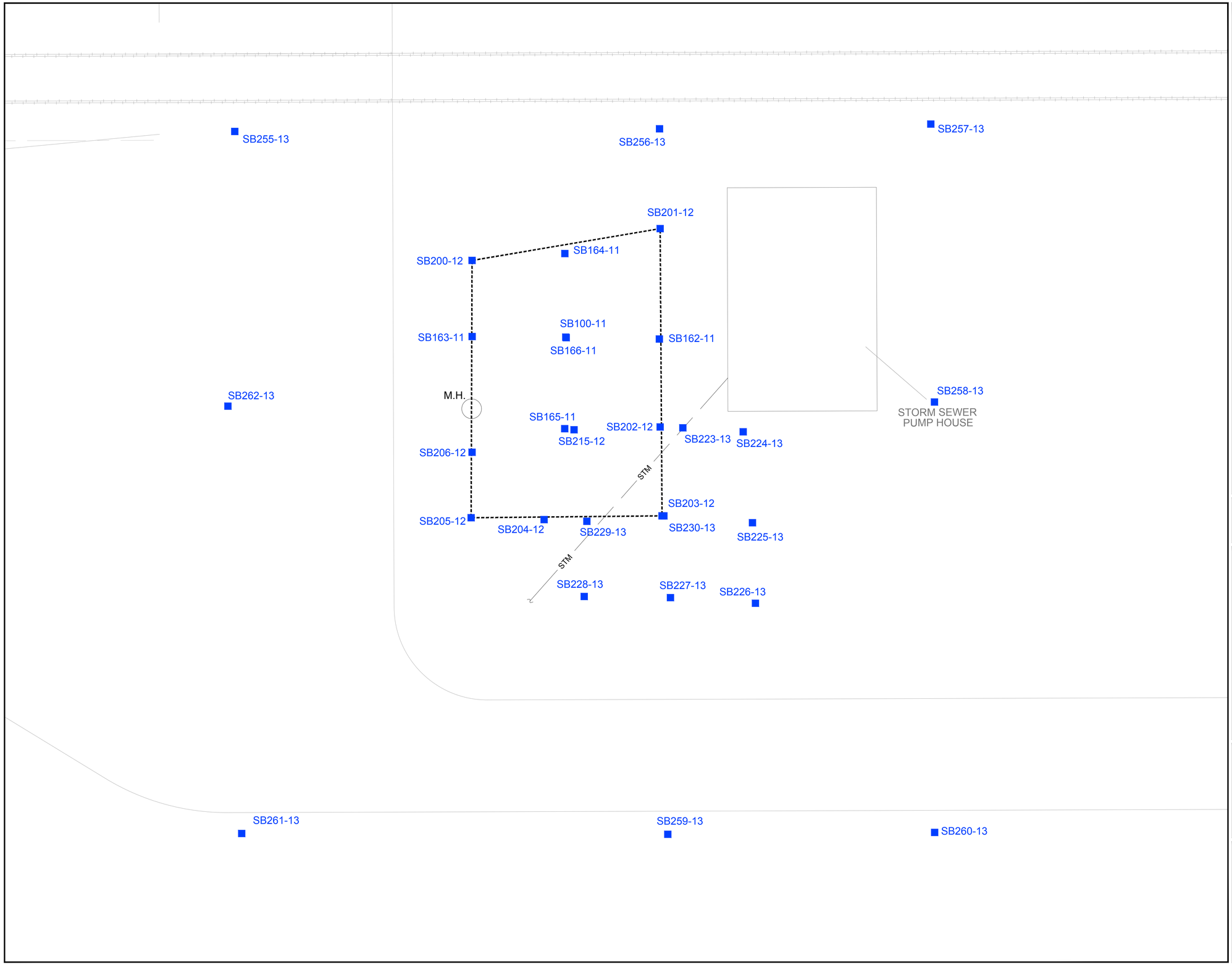
COLE DRAIN

figure 1.2

SITE PLAN AND PCB-IMPACTED SOIL REMEDIATION AREAS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

GHD

017360-T11(036)GN-DE002 OCT 22/2015



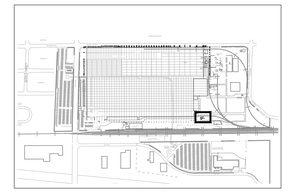
No	Revision	Date	Initial

N

0 2.5 5ft

LEGEND

- SB261-13 SOIL BORING LOCATIONS
- FENCE
- RAILROAD
- STM STORM SEWER
- EXCAVATION AREA BOUNDARY
- M.H. MANHOLE



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

EXCAVATION AREA

FORMER TAR HOUSE AREA

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. Q.	E. B.	SEPTEMBER 2015	
Scale: 1:5	Project No: 017360-T11	Report No: 036	Drawing No: Figure 5.1

017360-T11(036)GN-DE003 OCT 28/2015

SB255-13	8/19/2013 (3-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs							
Aroclor-1016 (PCB-1016)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1221 (PCB-1221)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1232 (PCB-1232)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1242 (PCB-1242)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1248 (PCB-1248)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1254 (PCB-1254)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Aroclor-1260 (PCB-1260)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.35 U	0.33 U	0.34 U
Total PCBs	ND	ND	ND	ND/ND	ND	ND	ND

Tar House • E Wall (•001)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.082 U
Aroclor-1221 (PCB-1221)	0.082 U
Aroclor-1232 (PCB-1232)	0.082 U
Aroclor-1242 (PCB-1242)	0.082 U
Aroclor-1248 (PCB-1248)	0.082 U
Aroclor-1254 (PCB-1254)	0.082 U
Aroclor-1260 (PCB-1260)	0.024 J
Total PCBs	0.024 J

SB164-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.035 U/0.035 U
Aroclor-1221 (PCB-1221)	0.035 U/0.035 U
Aroclor-1232 (PCB-1232)	0.035 U/0.035 U
Aroclor-1242 (PCB-1242)	0.035 U/0.035 U
Aroclor-1248 (PCB-1248)	0.035 U/0.035 U
Aroclor-1254 (PCB-1254)	0.035 U/0.035 U
Aroclor-1260 (PCB-1260)	0.035 U/0.035 U
Total PCBs	0.078 ND,14

SB256-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs								
Aroclor-1016 (PCB-1016)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1221 (PCB-1221)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1232 (PCB-1232)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1242 (PCB-1242)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1248 (PCB-1248)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1254 (PCB-1254)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Aroclor-1260 (PCB-1260)	0.32 U	0.34 U	0.33 U	0.32 U	0.33 U/0.34 U	0.34 U	0.39 U	0.34 U
Total PCBs	ND	ND	ND	ND	ND/ND	ND	ND	ND

Tar House • E Wall (•002)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.094 U
Aroclor-1221 (PCB-1221)	0.094 U
Aroclor-1232 (PCB-1232)	0.094 U
Aroclor-1242 (PCB-1242)	0.094 U
Aroclor-1248 (PCB-1248)	0.094 U
Aroclor-1254 (PCB-1254)	0.094 U
Aroclor-1260 (PCB-1260)	0.05 J
Total PCBs	0.05 J

SB251-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Aroclor-1016 (PCB-1016)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	0.33 U	0.33 U	0.34 U/0.33 U	0.33 U	0.32 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	0.33 U	0.33 U	0.33 U/0.34 U	0.33 U	0.32 U	0.33 U	0.33 U
Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

SB200-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U/0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U/0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U/0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U/0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U/0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	0.019 J	0.34 U/0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	0.021 J	0.0045 J/0.0040 J	0.34 U
Total PCBs	0.04 J	0.0045 J/0.004 J	ND

SB301-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.34 U	0.35 U	0.35 U
Aroclor-1221 (PCB-1221)	0.34 U	0.35 U	0.35 U
Aroclor-1232 (PCB-1232)	0.34 U	0.35 U	0.35 U
Aroclor-1242 (PCB-1242)	0.34 U	0.35 U	0.35 U
Aroclor-1248 (PCB-1248)	0.34 U	0.35 U	0.35 U
Aroclor-1254 (PCB-1254)	0.34 U	0.35 U	0.35 U
Aroclor-1260 (PCB-1260)	0.049 J	0.038 J	0.046 J
Total PCBs	0.049 J	0.038 J	0.046 J

Tar House Area • Floor (•001)	7/1/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.085 U
Aroclor-1221 (PCB-1221)	0.085 U
Aroclor-1232 (PCB-1232)	0.085 U
Aroclor-1242 (PCB-1242)	0.085 U
Aroclor-1248 (PCB-1248)	0.085 U
Aroclor-1254 (PCB-1254)	0.085 U
Aroclor-1260 (PCB-1260)	0.45
Total PCBs	0.45

Tar House • N Wall• East (•008)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.083 U/0.084 U
Aroclor-1221 (PCB-1221)	0.083 U/0.084 U
Aroclor-1232 (PCB-1232)	0.083 U/0.084 U
Aroclor-1242 (PCB-1242)	0.083 U/0.084 U
Aroclor-1248 (PCB-1248)	0.084 U/0.083 U
Aroclor-1254 (PCB-1254)	0.083 U/0.084 U
Aroclor-1260 (PCB-1260)	0.083 U/0.084 U
Total PCBs	ND/ND

Tar House • S Wall• East (•003)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.083 U
Aroclor-1221 (PCB-1221)	0.083 U
Aroclor-1232 (PCB-1232)	0.083 U
Aroclor-1242 (PCB-1242)	0.083 U
Aroclor-1248 (PCB-1248)	0.083 U
Aroclor-1254 (PCB-1254)	0.083 U
Aroclor-1260 (PCB-1260)	0.17
Total PCBs	0.17

SB100-11	3/15/2011 (8-10) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.28 U
Aroclor-1221 (PCB-1221)	0.28 U
Aroclor-1232 (PCB-1232)	0.28 U
Aroclor-1242 (PCB-1242)	0.28 U
Aroclor-1248 (PCB-1248)	0.28 U
Aroclor-1254 (PCB-1254)	0.28 U
Aroclor-1260 (PCB-1260)	0.28 U
Total PCBs	ND

SB162-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.17 U
Aroclor-1221 (PCB-1221)	0.17 U
Aroclor-1232 (PCB-1232)	0.17 U
Aroclor-1242 (PCB-1242)	0.17 U
Aroclor-1248 (PCB-1248)	0.17 U
Aroclor-1254 (PCB-1254)	0.17 U
Aroclor-1260 (PCB-1260)	0.56
Total PCBs	0.56

SB202-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U	0.35 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U	0.35 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U	0.35 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U	0.35 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U	0.35 U
Aroclor-1254 (PCB-1254)	0.34 U	0.34 U	0.35 U
Aroclor-1260 (PCB-1260)	0.071 J	0.66	0.062 J
Total PCBs	0.071 J	0.66	0.062 J

SB223-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.35 U	0.33 U	0.35 U
Aroclor-1221 (PCB-1221)	0.35 U	0.33 U	0.35 U
Aroclor-1232 (PCB-1232)	0.35 U	0.33 U	0.35 U
Aroclor-1242 (PCB-1242)	0.35 U	0.33 U	0.35 U
Aroclor-1248 (PCB-1248)	0.35 U	0.33 U	0.35 U
Aroclor-1254 (PCB-1254)	0.35 U	0.33 U	0.35 U
Aroclor-1260 (PCB-1260)	0.077 J	1.2	8.2
Total PCBs	0.077 J	1.2	8.2

SB166-11	9/29/2011 (4-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.035 U
Aroclor-1221 (PCB-1221)	0.035 U
Aroclor-1232 (PCB-1232)	0.035 U
Aroclor-1242 (PCB-1242)	0.035 U
Aroclor-1248 (PCB-1248)	0.035 U
Aroclor-1254 (PCB-1254)	0.035 U
Aroclor-1260 (PCB-1260)	0.035 U
Total PCBs	ND

SB163-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.034 U
Aroclor-1221 (PCB-1221)	0.034 U
Aroclor-1232 (PCB-1232)	0.034 U
Aroclor-1242 (PCB-1242)	0.034 U
Aroclor-1248 (PCB-1248)	0.034 U
Aroclor-1254 (PCB-1254)	0.034 U
Aroclor-1260 (PCB-1260)	0.034 U
Total PCBs	ND

SB258-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg
PCBs						
Aroclor-1016 (PCB-1016)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1221 (PCB-1221)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1232 (PCB-1232)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1242 (PCB-1242)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1248 (PCB-1248)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1254 (PCB-1254)	0.33 U	0.32 U	0.33 U	0.32 U	0.33 U/0.33 U	0.35 U
Aroclor-1260 (PCB-1260)	0.062 J	0.32 U	0.038 J	0.32 U	0.33 U/0.33 U	0.35 U
Total PCBs	0.062 J	ND	0.038 J	ND	ND/ND	ND

SB262-13	8/19/2013 (3-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs						
Aroclor-1016 (PCB-1016)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	0.33 U	0.34 U	0.32 U	0.34 U/0.34 U	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	0.33 U	0.34 U	0.32 U	ND/ND	ND	ND
Total PCBs	ND	ND	ND	ND	ND	ND

SB215-12	10/31/2012 (6-8) ft BGS mg/kg	10/31/2012 (8-10) ft BGS mg/kg
PCBs		
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	0.0059 J	0.0068 J
Total PCBs	0.0059 J	0.0068 J

SB224-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Aroclor-1016 (PCB-1016)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1221 (PCB-1221)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1232 (PCB-1232)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1242 (PCB-1242)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1248 (PCB-1248)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1254 (PCB-1254)	0.32 U	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1260 (PCB-1260)	0.32 U	0.34 U	0.33 U	0.33 U	0.37	1.1
Total PCBs	ND	ND	ND	ND	0.37	1.1

Tar House Area • Floor (•002)	7/1/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.086 U
Aroclor-1221 (PCB-1221)	0.086 U
Aroclor-1232 (PCB-1232)	0.086 U
Aroclor-1242 (PCB-1242)	0.086 U
Aroclor-1248 (PCB-1248)	0.086 U
Aroclor-1254 (PCB-1254)	0.086 U
Aroclor-1260 (PCB-1260)	0.26
Total PCBs	0.26

Tar House • N Wall• West (•007)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.083 U
Aroclor-1221 (PCB-1221)	0.083 U
Aroclor-1232 (PCB-1232)	0.083 U
Aroclor-1242 (PCB-1242)	0.083 U
Aroclor-1248 (PCB-1248)	0.083 U
Aroclor-1254 (PCB-1254)	0.083 U
Aroclor-1260 (PCB-1260)	0.021 J
Total PCBs	0.021 J

SB206-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.37 U	0.35 U	0.36 U
Aroclor-1221 (PCB-1221)	0.37 U	0.35 U	0.36 U
Aroclor-1232 (PCB-1232)	0.37 U	0.35 U	0.36 U
Aroclor-1242 (PCB-1242)	0.37 U	0.35 U	0.36 U
Aroclor-1248 (PCB-1248)	0.37 U	0.35 U	0.36 U
Aroclor-1254 (PCB-1254)	0.37 U	0.35 U	0.36 U
Aroclor-1260 (PCB-1260)	0.033 J	0.028 J	0.038 J
Total PCBs	0.033 J	0.028 J	0.038 J

SB165-11	9/29/2011 (4-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.68 U
Aroclor-1221 (PCB-1221)	0.68 U
Aroclor-1232 (PCB-1232)	0.68 U
Aroclor-1242 (PCB-1242)	0.68 U
Aroclor-1248 (PCB-1248)	0.68 U
Aroclor-1254 (PCB-1254)	0.68 U
Aroclor-1260 (PCB-1260)	3.8
Total PCBs	3.8

SB205-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	0.034 J	0.021 J	0.34 U
Aroclor-1260 (PCB-1260)	0.042 J	0.042 J	0.060 J
Total PCBs	0.076 J	0.063 J	0.06 J

Tar House • W Wall (•006)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.085 U
Aroclor-1221 (PCB-1221)	0.085 U
Aroclor-1232 (PCB-1232)	0.085 U
Aroclor-1242 (PCB-1242)	0.085 U
Aroclor-1248 (PCB-1248)	0.085 U
Aroclor-1254 (PCB-1254)	0.085 U
Aroclor-1260 (PCB-1260)	0.085 U
Total PCBs	ND

SB204-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	0.34 U	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	0.68	0.88	0.15 J
Total PCBs	0.68	0.88	0.15 J

SB261-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Aroclor-1016 (PCB-1016)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1221 (PCB-1221)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1232 (PCB-1232)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1242 (PCB-1242)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1248 (PCB-1248)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1254 (PCB-1254)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Aroclor-1260 (PCB-1260)	0.34 U	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U	0.32 U
Total PCBs	ND	ND	ND	ND	ND	ND	ND

Tar House Area • Floor (•003)	7/1/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.082 U
Aroclor-1221 (PCB-1221)	0.082 U
Aroclor-1232 (PCB-1232)	0.082 U
Aroclor-1242 (PCB-1242)	0.082 U
Aroclor-1248 (PCB-1248)	0.082 U
Aroclor-1254 (PCB-1254)	0.082 U
Aroclor-1260 (PCB-1260)	0.28
Total PCBs	0.28

SB227-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Aroclor-1016 (PCB-1016)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1221 (PCB-1221)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1232 (PCB-1232)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1242 (PCB-1242)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1248 (PCB-1248)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1254 (PCB-1254)	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1260 (PCB-1260)	0.42	0.6	1.5	3	2.7	0.34 U
Total PCBs	0.42	0.6	1.5	3	2.7	ND

SB229-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs			
Aroclor-1016 (PCB-1016)	0.33 U	0.33 U	0.34 U
Aroclor-1221 (PCB-1221)	0.33 U	0.33 U	0.34 U
Aroclor-1232 (PCB-1232)	0.33 U	0.33 U	0.34 U
Aroclor-1242 (PCB-1242)	0.33 U	0.33 U	0.34 U
Aroclor-1248 (PCB-1248)	0.33 U	0.33 U	0.34 U
Aroclor-1254 (PCB-1254)	0.33 U	0.33 U	0.34 U
Aroclor-1260 (PCB-1260)	0.58	0.33 U	0.21 J
Total PCBs	0.58	ND	0.21 J

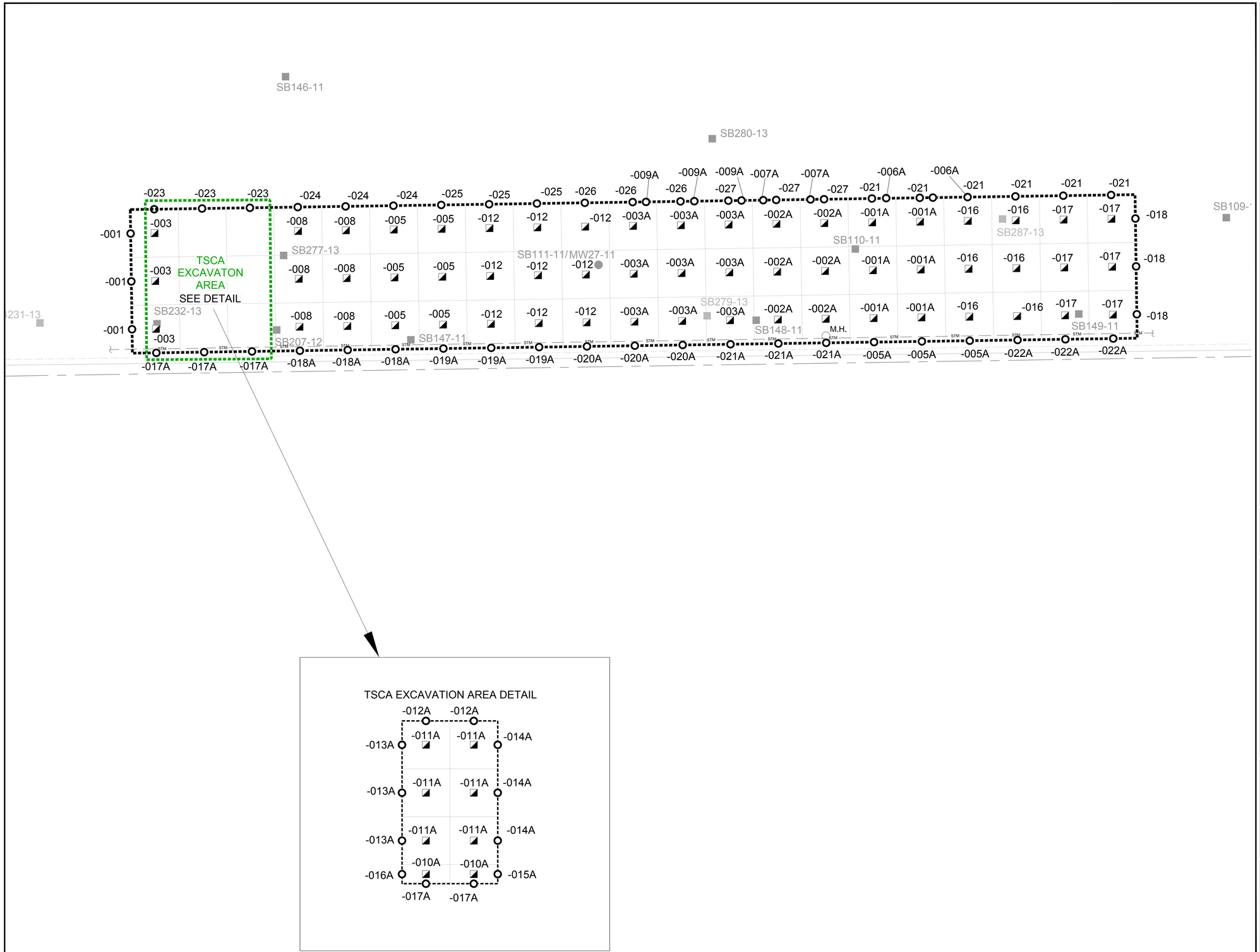
SB228-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Aroclor-1016 (PCB-1016)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1221 (PCB-1221)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1232 (PCB-1232)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1242 (PCB-1242)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1248 (PCB-1248)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1254 (PCB-1254)	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Aroclor-1260 (PCB-1260)	0.58	2.3	0.33 U	0.33 U	0.33 U	0.34 U/0.33 U
Total PCBs	0.58	2.3	ND	ND	ND	ND/ND

SB259-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Aroclor-1016 (PCB-1016)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1221 (PCB-1221)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1232 (PCB-1232)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1242 (PCB-1242)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1248 (PCB-1248)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1254 (PCB-1254)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Aroclor-1260 (PCB-1260)	0.33 U	0.33 U/0.33 U	0.35 U	0.33 U	0.32 U	0.32 U	0.33 U
Total PCBs	ND	ND/ND	ND	ND	ND	ND	ND

SB260-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Aroclor-1016 (PCB-1016)	0.33 U	0.33 U	0.38 U/0.37 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1221 (PCB-1221)	0.33 U	0.33 U	0.38 U/0.37 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1232 (PCB-1232)	0.33 U	0.33 U	0.38 U/0.37 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1242 (PCB-1242)	0.33 U	0.33 U	0.38 U/0.37 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1248 (PCB-1248)	0.33 U	0.33 U	0.38 U/0.37 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1254 (PCB-1254)	0.33 U	0.33 U	0.37 U/0.38 U	0.43 U	0.35 U	0.34 U	0.33 U
Aroclor-1260 (PCB-1260)	0.33 U	0.33 U	0.37 U/0.38 U	0.43 U	0.35 U	0.34 U	0.33 U
Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

Tar House • S Wall• East (•004)	7/14/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.084 U
Aroclor-1221 (PCB-1221)	0.084 U
Aroclor-1232 (PCB-1232)	0.084 U
Aroclor-1242 (PCB-1242)	0.084 U
Aroclor-1248 (PCB-1248)	0.084 U
Aroclor-1254 (PCB-1254)	0.084 U
Aroclor-1260 (PCB-1260)	0.35
Total PCBs	0.35

| SB225-13 | 4/23/2013 (0-2) ft BGS mg/kg | 4/23/2013 (2-4) ft BGS mg/kg | 4/23/2013 (4-6) ft BGS mg/kg | 4/23/2013 (6-8) ft BGS mg/kg | 4/23/2013 (8-10) ft BGS mg/kg | 4/23/2013 (10-12) ft BGS



TSCA EXCAVATION AREA DETAIL

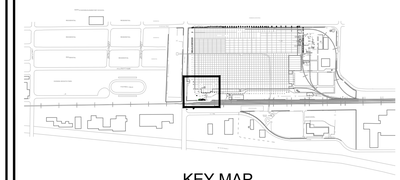
N⁰	Revision	Date	Initial

0 2.5 5ft

LEGEND

- SB295-13 SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 ABANDONED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- STM STORM SEWER
- M.H. MANHOLE
- EXCAVATION AREA BOUNDARY
- COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - FLOOR
- COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - SIDEWALL

NOTE: "001" DENOTES SUFFIX OF SAMPLE ID FOR CORRESPONDING COMPOSITE VERIFICATION SAMPLE PRESENTED IN TABLE 5.1



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

EXCAVATION AREA AND VERIFICATION SAMPLE LOCATIONS

FORMER BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

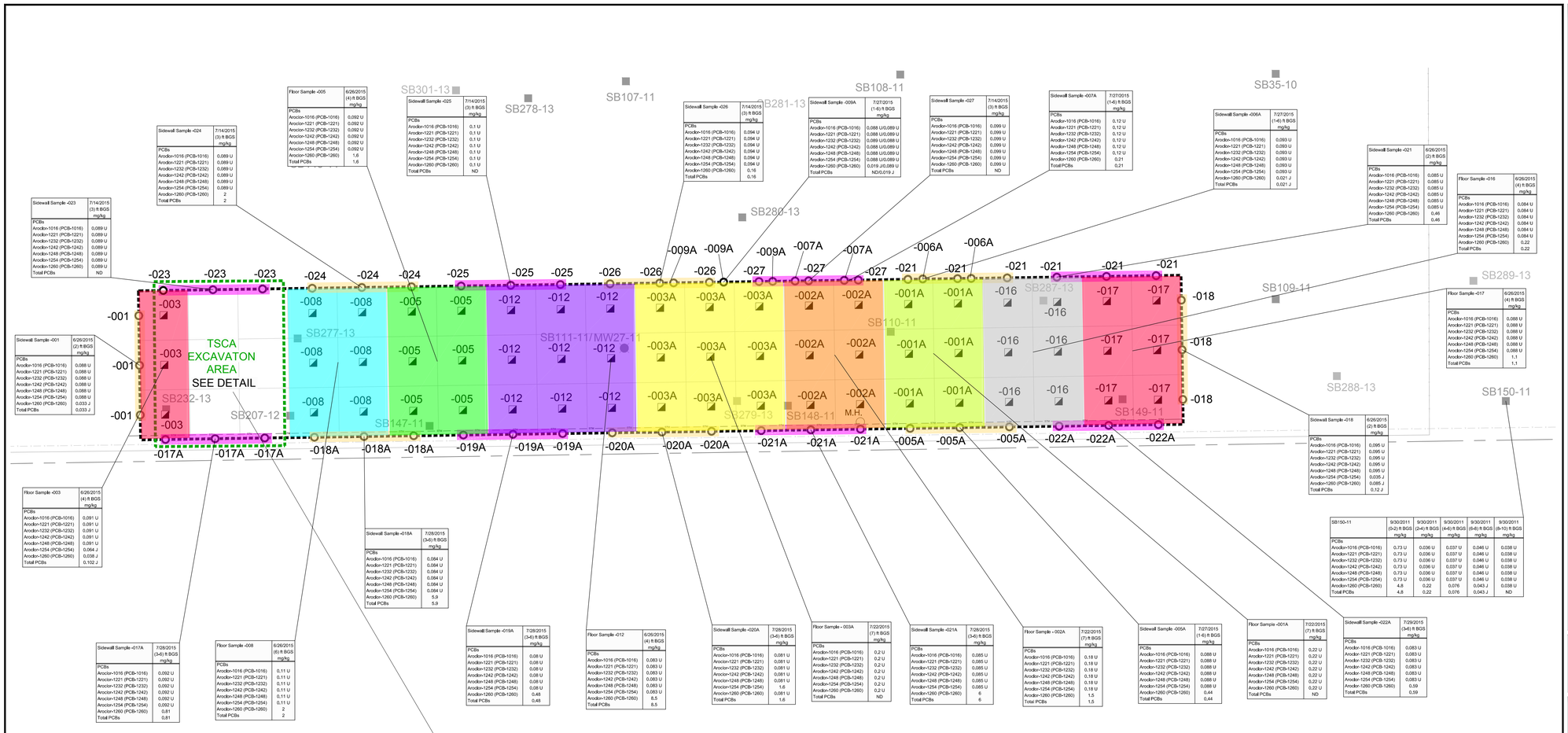
GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	OCTOBER 2015	
Scale: 1:15	Project N⁰: 017360-T11	Report N⁰: 036	Drawing N⁰: Figure 5.3

017360-T11(036)GN-DE005 OCT 30/2015

Nº	Revision	Date	Initial



Sidewall Sample -001	6/26/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.088 U
Aroclor-1221 (PCB-1221)	0.088 U
Aroclor-1232 (PCB-1232)	0.088 U
Aroclor-1242 (PCB-1242)	0.088 U
Aroclor-1248 (PCB-1248)	0.088 U
Aroclor-1254 (PCB-1254)	0.088 U
Aroclor-1260 (PCB-1260)	0.033 J
Total PCBs	0.033 J

Sidewall Sample -023	7/14/2015 (3) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.089 U
Aroclor-1221 (PCB-1221)	0.089 U
Aroclor-1232 (PCB-1232)	0.089 U
Aroclor-1242 (PCB-1242)	0.089 U
Aroclor-1248 (PCB-1248)	0.089 U
Aroclor-1254 (PCB-1254)	0.089 U
Aroclor-1260 (PCB-1260)	0.089 U
Total PCBs	ND

Sidewall Sample -024	7/14/2015 (3) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.089 U
Aroclor-1221 (PCB-1221)	0.089 U
Aroclor-1232 (PCB-1232)	0.089 U
Aroclor-1242 (PCB-1242)	0.089 U
Aroclor-1248 (PCB-1248)	0.089 U
Aroclor-1254 (PCB-1254)	0.089 U
Aroclor-1260 (PCB-1260)	2
Total PCBs	2

Floor Sample -005	6/26/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.092 U
Aroclor-1221 (PCB-1221)	0.092 U
Aroclor-1232 (PCB-1232)	0.092 U
Aroclor-1242 (PCB-1242)	0.092 U
Aroclor-1248 (PCB-1248)	0.092 U
Aroclor-1254 (PCB-1254)	0.092 U
Aroclor-1260 (PCB-1260)	1.6
Total PCBs	1.6

Sidewall Sample -025	7/14/2015 (3) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.1 U
Aroclor-1221 (PCB-1221)	0.1 U
Aroclor-1232 (PCB-1232)	0.1 U
Aroclor-1242 (PCB-1242)	0.1 U
Aroclor-1248 (PCB-1248)	0.1 U
Aroclor-1254 (PCB-1254)	0.1 U
Aroclor-1260 (PCB-1260)	0.1 U
Total PCBs	ND

Sidewall Sample -026	7/14/2015 (3) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.094 U
Aroclor-1221 (PCB-1221)	0.094 U
Aroclor-1232 (PCB-1232)	0.094 U
Aroclor-1242 (PCB-1242)	0.094 U
Aroclor-1248 (PCB-1248)	0.094 U
Aroclor-1254 (PCB-1254)	0.094 U
Aroclor-1260 (PCB-1260)	0.16
Total PCBs	0.16

Sidewall Sample -009A	7/27/2015 (1-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.088 U/0.089 U
Aroclor-1221 (PCB-1221)	0.088 U/0.089 U
Aroclor-1232 (PCB-1232)	0.088 U/0.088 U
Aroclor-1242 (PCB-1242)	0.088 U/0.089 U
Aroclor-1248 (PCB-1248)	0.088 U/0.089 U
Aroclor-1254 (PCB-1254)	0.088 U/0.089 U
Aroclor-1260 (PCB-1260)	0.019 J/0.089 U
Total PCBs	ND/0.019 J

Sidewall Sample -027	7/14/2015 (3) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.099 U
Aroclor-1221 (PCB-1221)	0.099 U
Aroclor-1232 (PCB-1232)	0.099 U
Aroclor-1242 (PCB-1242)	0.099 U
Aroclor-1248 (PCB-1248)	0.099 U
Aroclor-1254 (PCB-1254)	0.099 U
Aroclor-1260 (PCB-1260)	0.16
Total PCBs	ND

Sidewall Sample -007A	7/27/2015 (1-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.12 U
Aroclor-1221 (PCB-1221)	0.12 U
Aroclor-1232 (PCB-1232)	0.12 U
Aroclor-1242 (PCB-1242)	0.12 U
Aroclor-1248 (PCB-1248)	0.12 U
Aroclor-1254 (PCB-1254)	0.12 U
Aroclor-1260 (PCB-1260)	0.21
Total PCBs	0.21

Sidewall Sample -006A	7/27/2015 (1-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.093 U
Aroclor-1221 (PCB-1221)	0.093 U
Aroclor-1232 (PCB-1232)	0.093 U
Aroclor-1242 (PCB-1242)	0.093 U
Aroclor-1248 (PCB-1248)	0.093 U
Aroclor-1254 (PCB-1254)	0.093 U
Aroclor-1260 (PCB-1260)	0.021 J
Total PCBs	0.021 J

Sidewall Sample -021	6/26/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.085 U
Aroclor-1221 (PCB-1221)	0.085 U
Aroclor-1232 (PCB-1232)	0.085 U
Aroclor-1242 (PCB-1242)	0.085 U
Aroclor-1248 (PCB-1248)	0.085 U
Aroclor-1254 (PCB-1254)	0.085 U
Aroclor-1260 (PCB-1260)	0.46
Total PCBs	0.46

Floor Sample -016	6/26/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.084 U
Aroclor-1221 (PCB-1221)	0.084 U
Aroclor-1232 (PCB-1232)	0.084 U
Aroclor-1242 (PCB-1242)	0.084 U
Aroclor-1248 (PCB-1248)	0.084 U
Aroclor-1254 (PCB-1254)	0.084 U
Aroclor-1260 (PCB-1260)	0.22
Total PCBs	0.22

Floor Sample -017	6/26/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.088 U
Aroclor-1221 (PCB-1221)	0.088 U
Aroclor-1232 (PCB-1232)	0.088 U
Aroclor-1242 (PCB-1242)	0.088 U
Aroclor-1248 (PCB-1248)	0.088 U
Aroclor-1254 (PCB-1254)	0.088 U
Aroclor-1260 (PCB-1260)	1.1
Total PCBs	1.1

Sidewall Sample -018	6/26/2015 (2) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.095 U
Aroclor-1221 (PCB-1221)	0.095 U
Aroclor-1232 (PCB-1232)	0.095 U
Aroclor-1242 (PCB-1242)	0.095 U
Aroclor-1248 (PCB-1248)	0.095 U
Aroclor-1254 (PCB-1254)	0.035 J
Aroclor-1260 (PCB-1260)	0.085 J
Total PCBs	0.12 J

SB150-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (5-6) ft BGS mg/kg	9/30/2011 (5-10) ft BGS mg/kg
PCBs					
Aroclor-1016 (PCB-1016)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1221 (PCB-1221)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1232 (PCB-1232)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1242 (PCB-1242)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1248 (PCB-1248)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1254 (PCB-1254)	0.73 U	0.036 U	0.037 U	0.046 U	0.038 U
Aroclor-1260 (PCB-1260)	4.8	0.22	0.076	0.043 J	0.038 U
Total PCBs	4.8	0.22	0.076	0.043 J	ND

Floor Sample -003	6/26/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.091 U
Aroclor-1221 (PCB-1221)	0.091 U
Aroclor-1232 (PCB-1232)	0.091 U
Aroclor-1242 (PCB-1242)	0.091 U
Aroclor-1248 (PCB-1248)	0.091 U
Aroclor-1254 (PCB-1254)	0.064 J
Aroclor-1260 (PCB-1260)	0.038 J
Total PCBs	0.102 J

Sidewall Sample -017A	7/28/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.092 U
Aroclor-1221 (PCB-1221)	0.092 U
Aroclor-1232 (PCB-1232)	0.092 U
Aroclor-1242 (PCB-1242)	0.092 U
Aroclor-1248 (PCB-1248)	0.092 U
Aroclor-1254 (PCB-1254)	0.092 U
Aroclor-1260 (PCB-1260)	0.81
Total PCBs	0.81

Floor Sample -008	6/26/2015 (6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.11 U
Aroclor-1221 (PCB-1221)	0.11 U
Aroclor-1232 (PCB-1232)	0.11 U
Aroclor-1242 (PCB-1242)	0.11 U
Aroclor-1248 (PCB-1248)	0.11 U
Aroclor-1254 (PCB-1254)	0.11 U
Aroclor-1260 (PCB-1260)	2
Total PCBs	2

Sidewall Sample -018A	7/28/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.084 U
Aroclor-1221 (PCB-1221)	0.084 U
Aroclor-1232 (PCB-1232)	0.084 U
Aroclor-1242 (PCB-1242)	0.084 U
Aroclor-1248 (PCB-1248)	0.084 U
Aroclor-1254 (PCB-1254)	0.084 U
Aroclor-1260 (PCB-1260)	5.9
Total PCBs	5.9

Sidewall Sample -019A	7/28/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.08 U
Aroclor-1221 (PCB-1221)	0.08 U
Aroclor-1232 (PCB-1232)	0.08 U
Aroclor-1242 (PCB-1242)	0.08 U
Aroclor-1248 (PCB-1248)	0.08 U
Aroclor-1254 (PCB-1254)	0.08 U
Aroclor-1260 (PCB-1260)	0.48
Total PCBs	0.48

Floor Sample -012	6/26/2015 (4) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.083 U
Aroclor-1221 (PCB-1221)	0.083 U
Aroclor-1232 (PCB-1232)	0.083 U
Aroclor-1242 (PCB-1242)	0.083 U
Aroclor-1248 (PCB-1248)	0.083 U
Aroclor-1254 (PCB-1254)	0.083 U
Aroclor-1260 (PCB-1260)	8.5
Total PCBs	8.5

Sidewall Sample -020A	7/28/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.081 U
Aroclor-1221 (PCB-1221)	0.081 U
Aroclor-1232 (PCB-1232)	0.081 U
Aroclor-1242 (PCB-1242)	0.081 U
Aroclor-1248 (PCB-1248)	0.081 U
Aroclor-1254 (PCB-1254)	1.6
Aroclor-1260 (PCB-1260)	0.081 U
Total PCBs	1.6

Floor Sample - 003A	7/22/2015 (7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.2 U
Aroclor-1221 (PCB-1221)	0.2 U
Aroclor-1232 (PCB-1232)	0.2 U
Aroclor-1242 (PCB-1242)	0.2 U
Aroclor-1248 (PCB-1248)	0.2 U
Aroclor-1254 (PCB-1254)	0.2 U
Aroclor-1260 (PCB-1260)	0.2 U
Total PCBs	ND

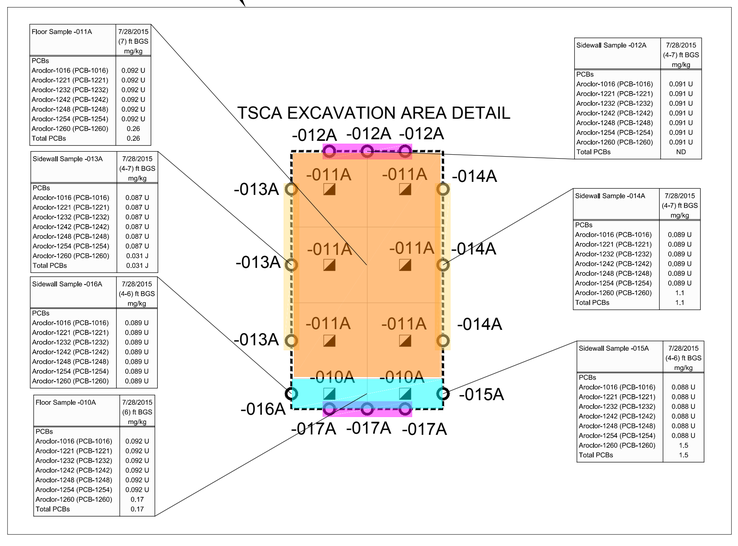
Sidewall Sample -021A	7/28/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.085 U
Aroclor-1221 (PCB-1221)	0.085 U
Aroclor-1232 (PCB-1232)	0.085 U
Aroclor-1242 (PCB-1242)	0.085 U
Aroclor-1248 (PCB-1248)	0.085 U
Aroclor-1254 (PCB-1254)	0.085 U
Aroclor-1260 (PCB-1260)	6
Total PCBs	6

Floor Sample - 002A	7/22/2015 (7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.18 U
Aroclor-1221 (PCB-1221)	0.18 U
Aroclor-1232 (PCB-1232)	0.18 U
Aroclor-1242 (PCB-1242)	0.18 U
Aroclor-1248 (PCB-1248)	0.18 U
Aroclor-1254 (PCB-1254)	0.18 U
Aroclor-1260 (PCB-1260)	1.5
Total PCBs	1.5

Sidewall Sample -005A	7/27/2015 (1-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.088 U
Aroclor-1221 (PCB-1221)	0.088 U
Aroclor-1232 (PCB-1232)	0.088 U
Aroclor-1242 (PCB-1242)	0.088 U
Aroclor-1248 (PCB-1248)	0.088 U
Aroclor-1254 (PCB-1254)	0.088 U
Aroclor-1260 (PCB-1260)	0.44
Total PCBs	0.44

Floor Sample -001A	7/22/2015 (7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.22 U
Aroclor-1221 (PCB-1221)	0.22 U
Aroclor-1232 (PCB-1232)	0.22 U
Aroclor-1242 (PCB-1242)	0.22 U
Aroclor-1248 (PCB-1248)	0.22 U
Aroclor-1254 (PCB-1254)	0.22 U
Aroclor-1260 (PCB-1260)	0.22 U
Total PCBs	ND

Sidewall Sample -022A	7/29/2015 (3-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.083 U
Aroclor-1221 (PCB-1221)	0.083 U
Aroclor-1232 (PCB-1232)	0.083 U
Aroclor-1242 (PCB-1242)	0.083 U
Aroclor-1248 (PCB-1248)	0.083 U
Aroclor-1254 (PCB-1254)	0.083 U
Aroclor-1260 (PCB-1260)	0.59
Total PCBs	0.59



Floor Sample -011A	7/28/2015 (7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.092 U
Aroclor-1221 (PCB-1221)	0.092 U
Aroclor-1232 (PCB-1232)	0.092 U
Aroclor-1242 (PCB-1242)	0.092 U
Aroclor-1248 (PCB-1248)	0.092 U
Aroclor-1254 (PCB-1254)	0.092 U
Aroclor-1260 (PCB-1260)	0.26
Total PCBs	0.26

Sidewall Sample -013A	7/28/2015 (4-7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.087 U
Aroclor-1221 (PCB-1221)	0.087 U
Aroclor-1232 (PCB-1232)	0.087 U
Aroclor-1242 (PCB-1242)	0.087 U
Aroclor-1248 (PCB-1248)	0.087 U
Aroclor-1254 (PCB-1254)	0.087 U
Aroclor-1260 (PCB-1260)	0.031 J
Total PCBs	0.031 J

Sidewall Sample -016A	7/28/2015 (4-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.089 U
Aroclor-1221 (PCB-1221)	0.089 U
Aroclor-1232 (PCB-1232)	0.089 U
Aroclor-1242 (PCB-1242)	0.089 U
Aroclor-1248 (PCB-1248)	0.089 U
Aroclor-1254 (PCB-1254)	0.089 U
Aroclor-1260 (PCB-1260)	0.089 U

Floor Sample -010A	7/28/2015 (6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.092 U
Aroclor-1221 (PCB-1221)	0.092 U
Aroclor-1232 (PCB-1232)	0.092 U
Aroclor-1242 (PCB-1242)	0.092 U
Aroclor-1248 (PCB-1248)	0.092 U
Aroclor-1254 (PCB-1254)	0.092 U
Aroclor-1260 (PCB-1260)	0.17
Total PCBs	0.17

Sidewall Sample -012A	7/28/2015 (4-7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.091 U
Aroclor-1221 (PCB-1221)	0.091 U
Aroclor-1232 (PCB-1232)	0.091 U
Aroclor-1242 (PCB-1242)	0.091 U
Aroclor-1248 (PCB-1248)	0.091 U
Aroclor-1254 (PCB-1254)	0.091 U
Aroclor-1260 (PCB-1260)	0.091 U
Total PCBs	ND

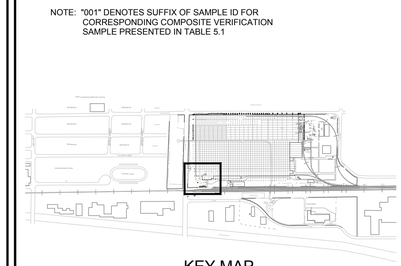
Sidewall Sample -014A	7/28/2015 (4-7) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.089 U
Aroclor-1221 (PCB-1221)	0.089 U
Aroclor-1232 (PCB-1232)	0.089 U
Aroclor-1242 (PCB-1242)	0.089 U
Aroclor-1248 (PCB-1248)	0.089 U
Aroclor-1254 (PCB-1254)	0.089 U
Aroclor-1260 (PCB-1260)	1.1
Total PCBs	1.1

Sidewall Sample -015A	7/28/2015 (4-6) ft BGS mg/kg
PCBs	
Aroclor-1016 (PCB-1016)	0.088 U
Aroclor-1221 (PCB-1221)	0.088 U
Aroclor-1232 (PCB-1232)	0.088 U
Aroclor-1242 (PCB-1242)	0.088 U
Aroclor-1248 (PCB-1248)	0.088 U
Aroclor-1254 (PCB-1254)	0.088 U
Aroclor-1260 (PCB-1260)	1.5
Total PCBs	1.5

NOTE: "001" DENOTES SUFFIX OF SAMPLE ID FOR CORRESPONDING COMPOSITE VERIFICATION SAMPLE PRESENTED IN TABLE 5.1

LEGEND

- SB295-13 SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 ABANDONED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- STORM SEWER
- M.H. MANHOLE
- EXCAVATION AREA BOUNDARY
- COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - FLOOR
- COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - SIDEWALL



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

REMAINING PCB CONCENTRATIONS

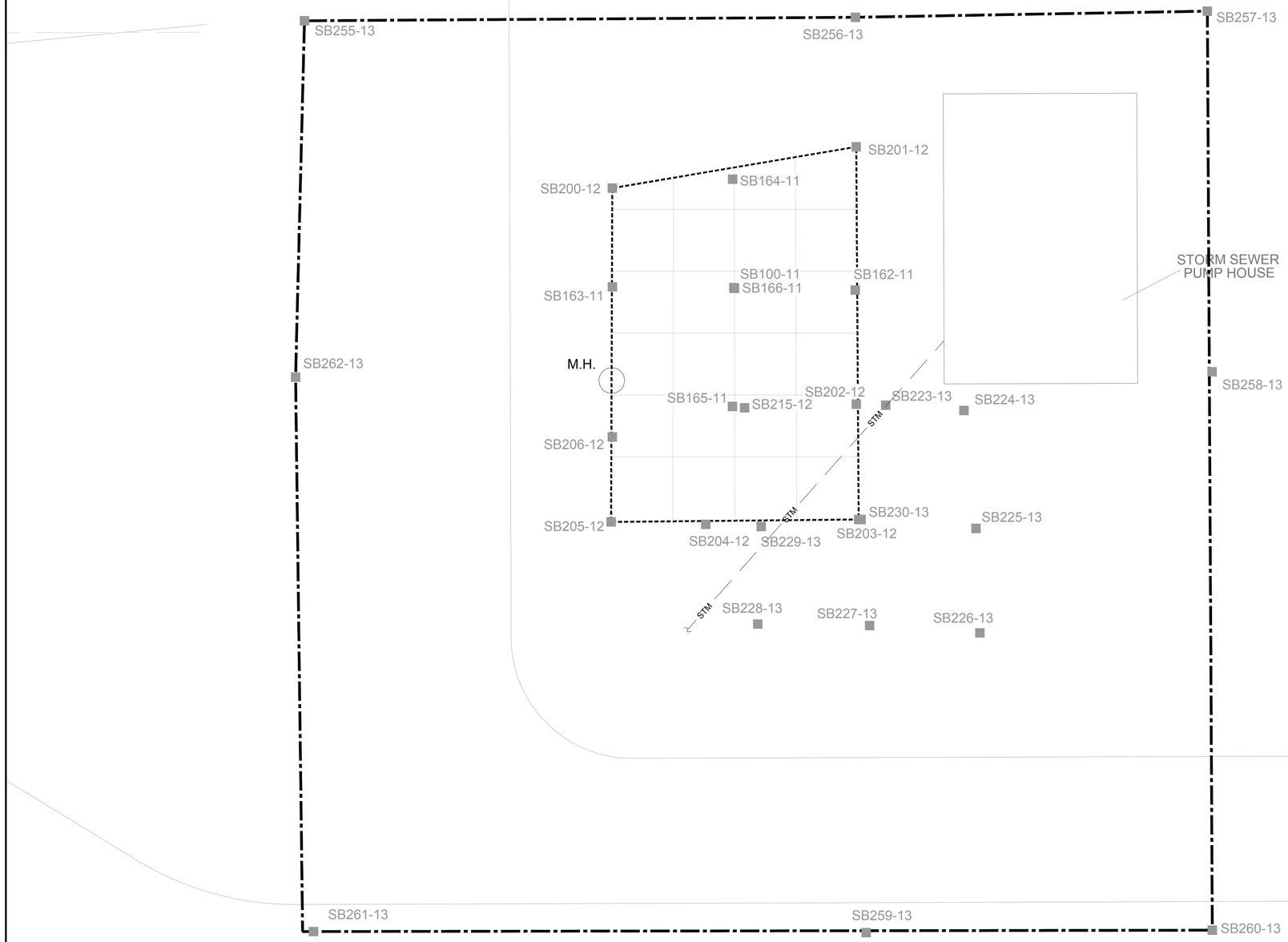
FORMER BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	OCTOBER 2015	
Scale: 1:15	Project Nº: 017360-T11	Report Nº: 036	Drawing Nº: Figure 5.4

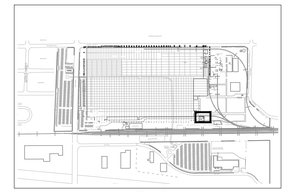


No	Revision	Date	Initial

0 2.5 5ft

LEGEND

- SB261-13 SOIL BORING LOCATIONS
- FENCE
- RAILROAD
- STM STORM SEWER
- EXCAVATION AREA BOUNDARY
- M.H. MANHOLE
- PROPOSED LOW OCCUPANCY AREA BOUNDARY



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

DEED RESTRICTION AREA

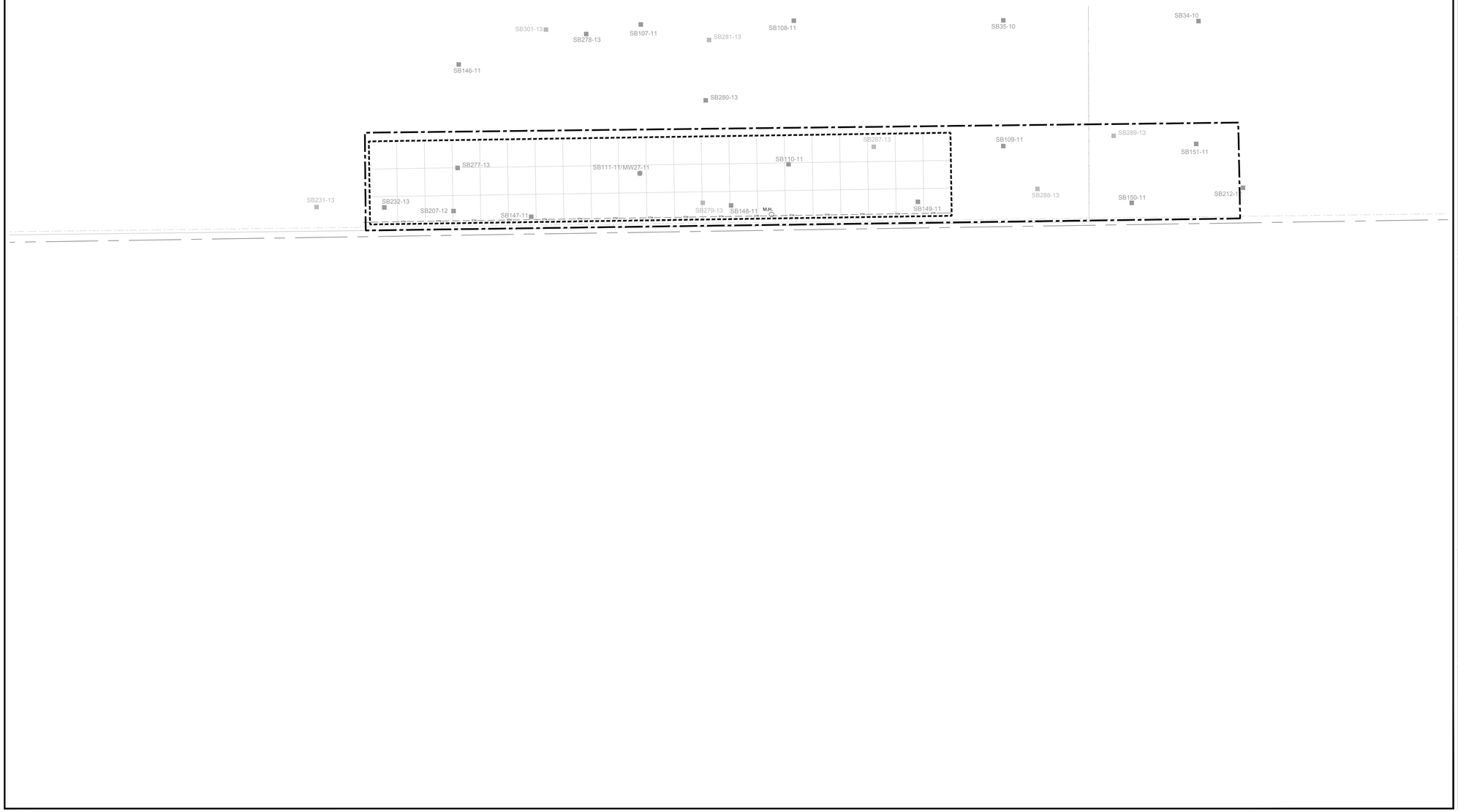
FORMER TAR HOUSE AREA

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

GHD

Source Reference:			
Project Manager: J. Q.	Reviewed By: E. B.	Date: NOVEMBER 2015	
Scale: 1:5	Project No: 017360-T11	Report No: 036	Drawing No: Figure 8.1

017360-T11(036)GN-DE007 NOV 11/2015

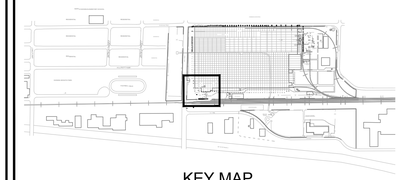


Nº	Revision	Date	Initial

0 5 10ft

LEGEND

- SB295-13 SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 ABANDONED MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- STORM SEWER
- M.H. MANHOLE
- EXCAVATION AREA BOUNDARY
- PROPOSED LOW OCCUPANCY AREA BOUNDARY



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

DEED RESTRICTION AREA

FORMER BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	NOVEMBER 2015	
Scale: 1:15	Project Nº: 017360-T11	Report Nº: 036	Drawing Nº: Figure 8.2

017360-T11(036)GN-DE008 NOV 11/2015

Verification Sample Summary
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Date	*Sample Identification*	*Sample Location*	*Sample Depth (ft bgs)*	*Excavation Status*	*QA/QC*
7/1/2015	SO-017360-070115-EB-001	Tar House Area - Floor -001	(4) ft BGS	Unexcavated	
7/1/2015	SO-017360-070115-EB-002	Tar House Area - Floor -002	(4) ft BGS	Unexcavated	
7/1/2015	SO-017360-070115-EB-003	Tar House Area - Floor -003	(4) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-001	Tar House - E Wall -001	(2) ft BGS	Unexcavated	MS/MSD
7/14/2015	SO-017360-071415-EB-002	Tar House - E Wall -002	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-003	Tar House - S Wall, East -003	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-004	Tar House - S Wall, West -004	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-005	Tar House - W Wall -005	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-006	Tar House - W Wall -006	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-007	Tar House - N Wall, West -007	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-008	Tar House - N Wall, East -008	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-009	Tar House - N Wall, East -008	(2) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-001	Sidewall Sample -001	(2) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-002	Sidewall Sample -002	(2) ft BGS	Unexcavated	MS/MSD
6/26/2015	SO-017360-062615-EB-003	Floor Sample -003	(4) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-004	Floor Sample -004	(4) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-005	Floor Sample -005	(4) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-006	Sidewall Sample -006	(3.5) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-007	Sidewall Sample -006	(3.5) ft BGS	Excavated	Duplicate
6/26/2015	SO-017360-062615-EB-008	Floor Sample -008	(6) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-009	Sidewall Sample -009	(5) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-010	Sidewall Sample -010	(5) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-011	Sidewall Sample -011	(5) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-012	Floor Sample -012	(4) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-013	Floor Sample -013	(4) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-014	Floor Sample -014	(4) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-015	Floor Sample -015	(4) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-016	Floor Sample -016	(4) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-017	Floor Sample -017	(4) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-018	Sidewall Sample -018	(2) ft BGS	Unexcavated	
6/26/2015	SO-017360-062615-EB-019	Sidewall Sample -019	(3.5) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-020	Sidewall Sample -020	(3.5) ft BGS	Excavated	
6/26/2015	SO-017360-062615-EB-022	Sidewall Sample -022	(2) ft BGS	Unexcavated	MS/MSD
6/26/2015	SO-017360-062615-EB-021	Sidewall Sample -021	(2) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-023	Sidewall Sample -023	(3) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-024	Sidewall Sample -024	(3) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-025	Sidewall Sample -025	(3) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-026	Sidewall Sample -026	(3) ft BGS	Unexcavated	
7/14/2015	SO-017360-071415-EB-027	Sidewall Sample -027	(3) ft BGS	Unexcavated	
7/22/2015	SO-017360-072215-EB-001A	Floor Sample -001A	(7) ft BGS	Unexcavated	
7/22/2015	SO-017360-072215-EB-002A	Floor Sample - 002A	(7) ft BGS	Unexcavated	
7/22/2015	SO-017360-072215-EB-003A	Floor Sample - 003A	(7) ft BGS	Unexcavated	
7/27/2015	SO-017360-072715-EB-004A	Sidewall Sample -004A	(1) ft BGS	Excavated	
7/27/2015	SO-017360-072715-EB-005A	Sidewall Sample -005A	(1) ft BGS	Unexcavated	
7/27/2015	SO-017360-072715-EB-006A	Sidewall Sample -006A	(1) ft BGS	Unexcavated	
7/27/2015	SO-017360-072715-EB-007A	Sidewall Sample -007A	(1) ft BGS	Unexcavated	
7/27/2015	SO-017360-072715-EB-008A	Sidewall Sample -009A	(1) ft BGS	Unexcavated	
7/27/2015	SO-017360-072715-EB-009A	Sidewall Sample -009A	(1) ft BGS	Unexcavated	Duplicate

Verification Sample Summary
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Date	*Sample Identification*	*Sample Location*	*Sample Depth (ft bgs)*	*Excavation Status*	*QA/QC*
7/28/2015	SO-017360-072815-EB-010A	Floor Sample -010A	(6) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-011A	Floor Sample -011A	(7) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-012A	Sidewall Sample -012A	(4) ft BGS	Unexcavated	MS/MSD
7/28/2015	SO-017360-072815-EB-013A	Sidewall Sample -013A	(4) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-014A	Sidewall Sample -014A	(4) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-015A	Sidewall Sample -015A	(4) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-017A	Sidewall Sample -017A	(3) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-018A	Sidewall Sample -018A	(3) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-019A	Sidewall Sample -019A	(3) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-020A	Sidewall Sample -020A	(3) ft BGS	Unexcavated	
7/28/2015	SO-017360-072815-EB-021A	Sidewall Sample -021A	(3) ft BGS	Unexcavated	
7/29/2015	SO-017360-072915-EB-022A	Sidewall Sample -022A	(3) ft BGS	Unexcavated	

Notes:
ft. bgs - feet below ground surface
QA/QC - Quality Assurance/Quality Control
MS/MSD - Matrix Spike/Matrix Spike Duplicate

Soil Verification Sample Analytical Results - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:				***Tar House Area - Floor -001***	***Tar House Area - Floor -002***	***Tar House Area - Floor -003***	***Tar House - E Wall -001***
Sample Identification:		***TSCA [1]***	***TSCA [2]***	***SO-017360-070115-EB-001***	***SO-017360-070115-EB-002***	***SO-017360-070115-EB-003***	***SO-017360-071415-EB-001***
Sample Date:				***7/1/2015***	***7/1/2015***	***7/1/2015***	***7/14/2015***
Depth		***a***	***b***	***(4) ft BGS***	***(4) ft BGS***	***(4) ft BGS***	***(2) ft BGS***
Sample Type:							
	Units						
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.085 U	0.086 U	0.082 U	0.082 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.45	0.26	0.28	0.024 J
Total PCBs	mg/kg	1	10	0.45	0.26	0.28	0.024

Notes:
[1] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Tar House - E Wall -002***	***Tar House - S Wall, East -003***	***Tar House - S Wall, West -004***	***Tar House - W Wall -005***	***Tar House - W Wall -006***
Sample Identification:		***SO-017360-071415-EB-002***	***SO-017360-071415-EB-003***	***SO-017360-071415-EB-004***	***SO-017360-071415-EB-005***	***SO-017360-071415-EB-006***
Sample Date:		***7/14/2015***	***7/14/2015***	***7/14/2015***	***7/14/2015***	***7/14/2015***
Depth		***(2) ft BGS***	***(2) ft BGS***	***(2) ft BGS***	***(2) ft BGS***	***(2) ft BGS***
Sample Type:						
	Units					
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1221 (PCB-1221)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1232 (PCB-1232)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1242 (PCB-1242)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1248 (PCB-1248)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1254 (PCB-1254)	mg/kg	0.094 U	0.083 U	0.084 U	0.083 U	0.085 U
Aroclor-1260 (PCB-1260)	mg/kg	0.05 J	0.17	0.35	0.34	0.085 U
Total PCBs	mg/kg	0.05 J	0.17	0.35	0.34	ND

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Tar House - N Wall, West -007***	***Tar House - N Wall, East -008***	***Tar House - N Wall, East -008***
Sample Identification:		***SO-017360-071415-EB-007***	***SO-017360-071415-EB-008***	***SO-017360-071415-EB-009***
Sample Date:		***7/14/2015***	***7/14/2015***	***7/14/2015***
Depth		***(2) ft BGS***	***(2) ft BGS***	***(2) ft BGS***
Sample Type:				***Duplicate***
	Units			
Polychlorinated Biphenyls (PCBs)				
Aroclor-1016 (PCB-1016)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1221 (PCB-1221)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1232 (PCB-1232)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1242 (PCB-1242)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1248 (PCB-1248)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1254 (PCB-1254)	mg/kg	0.083 U	0.083 U	0.084 U
Aroclor-1260 (PCB-1260)	mg/kg	0.021 J	0.083 U	0.084 U
Total PCBs	mg/kg	0.021 J	ND	ND

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:				*Sidewall Sample -001*	*Sidewall Sample -002*	*Floor Sample -003*	*Floor Sample -004*
Sample Identification:		*TSCA* [1]	*TSCA* [2]	*SO-017360-062615-EB-001*	*SO-017360-062615-EB-002*	*SO-017360-062615-EB-003*	*SO-017360-062615-EB-004*
Sample Date:				*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*a*	*b*	*(2) ft BGS*	*(2) ft BGS*	*(4) ft BGS*	*(4) ft BGS*
Sample Type:							
Excavation Status:				*Unexcavated*	*Unexcavated*	*Unexcavated*	*Excavated*
	Units						
PCBs							
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.088 U	0.087 U	0.091 U	0.089 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.088 U	0.087 U	0.091 U	0.089 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.088 U	0.087 U	0.091 U	0.089 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.088 U	0.087 U	0.091 U	0.089 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.088 U	0.087 U	0.091 U	0.089 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.088 U	0.18	0.064 J	0.089 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.033 J	0.1	0.038 J	69
Total PCBs	mg/kg	1	10	0.033 J	0.28	0.102 J	**69**[ab]

Notes:
[1] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		*Floor Sample -005*	*Sidewall Sample -006*	*Sidewall Sample -006*	*Floor Sample -008*	*Sidewall Sample -009*
Sample Identification:		*SO-017360-062615-EB-005*	*SO-017360-062615-EB-006*	*SO-017360-062615-EB-007*	*SO-017360-062615-EB-008*	*SO-017360-062615-EB-009*
Sample Date:		*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*(4) ft BGS*	*(3.5) ft BGS*	*(3.5) ft BGS*	*(6) ft BGS*	*(5) ft BGS*
Sample Type:				*Duplicate*		
Excavation Status:		*Unexcavated*	*Excavated*	*Excavated*	*Unexcavated*	*Unexcavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1221 (PCB-1221)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1232 (PCB-1232)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1242 (PCB-1242)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1248 (PCB-1248)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1254 (PCB-1254)	mg/kg	0.092 U	0.087 U	0.089 U	0.11 U	0.09 U
Aroclor-1260 (PCB-1260)	mg/kg	1.6	15 J	3.4 J	2	2
Total PCBs	mg/kg	**1.6**[a]	**15 J**[ab]	**3.4 J**[a]	**2**[a]	**2**[a]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		*Sidewall Sample -010*	*Sidewall Sample -011*	*Floor Sample -012*	*Floor Sample -013*	*Floor Sample -014*
Sample Identification:		*SO-017360-062615-EB-010*	*SO-017360-062615-EB-011*	*SO-017360-062615-EB-012*	*SO-017360-062615-EB-013*	*SO-017360-062615-EB-014*
Sample Date:		*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*(5) ft BGS*	*(5) ft BGS*	*(4) ft BGS*	*(4) ft BGS*	*(4) ft BGS*
Sample Type:						
Excavation Status:		*Unexcavated*	*Excavated*	*Unexcavated*	*Excavated*	*Excavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.088 U	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088	0.09 U	0.083 U	0.085 U	0.11 U
Aroclor-1260 (PCB-1260)	mg/kg	0.15	44	8.5	39	42
Total PCBs	mg/kg	0.238	**44[ab]**	**8.5[a]**	**39[ab]**	**42[ab]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		*Floor Sample -015*	*Floor Sample -016*	*Floor Sample -017*	*Sidewall Sample -018*	*Sidewall Sample -019*
Sample Identification:		*SO-017360-062615-EB-015*	*SO-017360-062615-EB-016*	*SO-017360-062615-EB-017*	*SO-017360-062615-EB-018*	*SO-017360-062615-EB-019*
Sample Date:		*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*(4) ft BGS*	*(4) ft BGS*	*(4) ft BGS*	*(2) ft BGS*	*(3.5) ft BGS*
Sample Type:						
Excavation Status:		*Excavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*	*Excavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.087 U	0.084 U	0.088 U	0.095 U	0.089 U
Aroclor-1221 (PCB-1221)	mg/kg	0.087 U	0.084 U	0.088 U	0.095 U	0.089 U
Aroclor-1232 (PCB-1232)	mg/kg	0.087 U	0.084 U	0.088 U	0.095 U	0.089 U
Aroclor-1242 (PCB-1242)	mg/kg	0.087 U	0.084 U	0.088 U	0.095 U	0.089 U
Aroclor-1248 (PCB-1248)	mg/kg	0.087 U	0.084 U	0.088 U	0.095 U	0.089 U
Aroclor-1254 (PCB-1254)	mg/kg	0.087 U	0.084 U	0.088 U	0.035 J	0.089 U
Aroclor-1260 (PCB-1260)	mg/kg	25	0.22	1.1	0.085 J	45
Total PCBs	mg/kg	**25**[ab]	0.22	**1.1**[a]	0.12 J	**45**[ab]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		*Sidewall Sample -020*	*Sidewall Sample -022*	*Sidewall Sample -021*	*Sidewall Sample -023*	*Sidewall Sample -024*
Sample Identification:		*SO-017360-062615-EB-020*	*SO-017360-062615-EB-022*	*SO-017360-062615-EB-021*	*SO-017360-071415-EB-023*	*SO-017360-071415-EB-024*
Sample Date:		*6/26/2015*	*6/26/2015*	*6/26/2015*	*7/14/2015*	*7/14/2015*
Depth:		*(3.5) ft BGS*	*(2) ft BGS*	*(2) ft BGS*	*(3) ft BGS*	*(3) ft BGS*
Sample Type:						
Excavation Status:		*Excavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1221 (PCB-1221)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1232 (PCB-1232)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1242 (PCB-1242)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1248 (PCB-1248)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1254 (PCB-1254)	mg/kg	0.084 U	0.09 U	0.085 U	0.089 U	0.089 U
Aroclor-1260 (PCB-1260)	mg/kg	12	2.2 J	0.46	0.089 U	2
Total PCBs	mg/kg	**12[ab]**	**2.2 J[a]**	0.46	ND	**2[a]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
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Sample Location:		*Sidewall Sample -025*	*Sidewall Sample -026*	*Sidewall Sample -027*	*Floor Sample -001A*	*Floor Sample - 002A*
Sample Identification:		*SO-017360-071415-EB-025*	*SO-017360-071415-EB-026*	*SO-017360-071415-EB-027*	*SO-017360-072215-EB-001A*	*SO-017360-072215-EB-002A*
Sample Date:		*7/14/2015*	*7/14/2015*	*7/14/2015*	*7/22/2015*	*7/22/2015*
Depth:		*(3) ft BGS*	*(3) ft BGS*	*(3) ft BGS*	*(7) ft BGS*	*(7) ft BGS*
Sample Type:						
Excavation Status:		*Unexcavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1221 (PCB-1221)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1232 (PCB-1232)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1242 (PCB-1242)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1248 (PCB-1248)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1254 (PCB-1254)	mg/kg	0.1 U	0.094 U	0.099 U	0.22 U	0.18 U
Aroclor-1260 (PCB-1260)	mg/kg	0.1 U	0.16	0.099 U	0.22 U	1.5
Total PCBs	mg/kg	ND	0.16	ND	ND	**1.5**[a]

Notes:
[(1)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
[(2)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Floor Sample - 003A***	***Sidewall Sample -004A***	***Sidewall Sample -005A***	***Sidewall Sample -006A***	***Sidewall Sample -007A***
Sample Identification:		***SO-017360-072215-EB-003A***	***SO-017360-072715-EB-004A***	***SO-017360-072715-EB-005A***	***SO-017360-072715-EB-006A***	***SO-017360-072715-EB-007A***
Sample Date:		***7/22/2015***	***7/27/2015***	***7/27/2015***	***7/27/2015***	***7/27/2015***
Depth:		***(7) ft BGS***	***(1) ft BGS***	***(1) ft BGS***	***(1) ft BGS***	***(1) ft BGS***
Sample Type:						
Excavation Status:		***Unexcavated***	***Excavated***	***Unexcavated***	***Unexcavated***	***Unexcavated***
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1221 (PCB-1221)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1232 (PCB-1232)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1242 (PCB-1242)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1248 (PCB-1248)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1254 (PCB-1254)	mg/kg	0.2 U	1.6 U	0.088 U	0.093 U	0.12 U
Aroclor-1260 (PCB-1260)	mg/kg	0.2 U	48	0.44	0.021 J	0.21
Total PCBs	mg/kg	ND	**48[ab]**	0.44	0.021 J	0.21

Notes:
[(1)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
[(2)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		*Sidewall Sample -009A*	*Sidewall Sample -009A*	*Floor Sample -010A*	*Floor Sample -011A*	*Sidewall Sample -012A*
Sample Identification:		*SO-017360-072715-EB-008A*	*SO-017360-072715-EB-009A*	*SO-017360-072815-EB-010A*	*SO-017360-072815-EB-011A*	*SO-017360-072815-EB-012A*
Sample Date:		*7/27/2015*	*7/27/2015*	*7/28/2015*	*7/28/2015*	*7/28/2015*
Depth:		*(1) ft BGS*	*(1) ft BGS*	*(6) ft BGS*	*(7) ft BGS*	*(4) ft BGS*
Sample Type:			*Duplicate*			
Excavation Status:		*Unexcavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*	*Unexcavated*
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088 U	0.089 U	0.092 U	0.092 U	0.091 U
Aroclor-1260 (PCB-1260)	mg/kg	0.019 J	0.089 U	0.17	0.26	0.091 U
Total PCBs	mg/kg	0.019 J	ND	0.17	0.26	ND

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -013A***	***Sidewall Sample -014A***	***Sidewall Sample -015A***	***Sidewall Sample -016A***	***Sidewall Sample -017A***
Sample Identification:		***SO-017360-072815-EB-013A***	***SO-017360-072815-EB-014A***	***SO-017360-072815-EB-015A***	***SO-017360-072815-EB-016A***	***SO-017360-072815-EB-017A***
Sample Date:		***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/28/2015***
Depth:		***(4) ft BGS***	***(4) ft BGS***	***(4) ft BGS***	***(3) ft BGS***	***(3) ft BGS***
Sample Type:						
Excavation Status:		***Unexcavated***	***Unexcavated***	***Unexcavated***	***Unexcavated***	***Unexcavated***
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1221 (PCB-1221)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1232 (PCB-1232)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1242 (PCB-1242)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1248 (PCB-1248)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1254 (PCB-1254)	mg/kg	0.087 U	0.089 U	0.088 U	0.089 U	0.092 U
Aroclor-1260 (PCB-1260)	mg/kg	0.031 J	1.1	1.5	0.089 U	0.81
Total PCBs	mg/kg	0.031 J	**1.1**[a]	**1.5**[a]	ND	0.81

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Verification Sample Analytical Results - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -018A***	***Sidewall Sample -019A***	***Sidewall Sample -020A***	***Sidewall Sample -021A***	***Sidewall Sample -022A***
Sample Identification:		***SO-017360-072815-EB-018A***	***SO-017360-072815-EB-019A***	***SO-017360-072815-EB-020A***	***SO-017360-072815-EB-021A***	***SO-017360-072915-EB-022A***
Sample Date:		***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/29/2015***
Depth:		***(3) ft BGS***	***(3) ft BGS***	***(3) ft BGS***	***(3) ft BGS***	***(3) ft BGS***
Sample Type:						
Excavation Status:		***Unexcavated***	***Unexcavated***	***Unexcavated***	***Unexcavated***	***Unexcavated***
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.084 U	0.08 U	0.081 U	0.085 U	0.083 U
Aroclor-1221 (PCB-1221)	mg/kg	0.084 U	0.08 U	0.081 U	0.085 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	0.084 U	0.08 U	0.081 U	0.085 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	0.084 U	0.08 U	0.081 U	0.085 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	0.084 U	0.08 U	0.081 U	0.085 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	0.084 U	0.08 U	1.6	0.085 U	0.083 U
Aroclor-1260 (PCB-1260)	mg/kg	5.9	0.48	0.081 U	6	0.59
Total PCBs	mg/kg	**5.9**[a]	0.48	**1.6**[a]	**6**[a]	0.59

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
(2) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:			*Floor Sample -005*	*Floor Sample -008*	*Sidewall Sample -009*	*Floor Sample -012*
Sample Identification:		*TSCA* [(1)]	*SO-017360-062615-EB-005*	*SO-017360-062615-EB-008*	*SO-017360-062615-EB-009*	*SO-017360-062615-EB-012*
Sample Date:			*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*a*	*(4) ft BGS*	*(6) ft BGS*	*(5) ft BGS*	*(4) ft BGS*
Sample Type:						
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1221 (PCB-1221)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1260 (PCB-1260)	mg/kg	1	1.6	2	2	8.5
Total PCBs	mg/kg	1	**1.6**[a]	**2**[a]	**2**[a]	**8.5**[a]

Notes:
[(1)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Floor Sample -017***	***Sidewall Sample -022***	***Sidewall Sample -024***	***Floor Sample - 002A***
Sample Identification:		***SO-017360-062615-EB-017***	***SO-017360-062615-EB-022***	***SO-017360-071415-EB-024***	***SO-017360-072215-EB-002A***
Sample Date:		***6/26/2015***	***6/26/2015***	***7/14/2015***	***7/22/2015***
Depth:		***(4) ft BGS***	***(2) ft BGS***	***(3) ft BGS***	***(7) ft BGS***
Sample Type:					
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1260 (PCB-1260)	mg/kg	1.1	2.2 J	2	1.5
Total PCBs	mg/kg	**1.1**[a]	**2.2 J**[a]	**2**[a]	**1.5**[a]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -014A***	***Sidewall Sample -015A***	***Sidewall Sample -018A***	***Sidewall Sample -020A***
Sample Identification:		***SO-017360-072815-EB-014A***	***SO-017360-072815-EB-015A***	***SO-017360-072815-EB-018A***	***SO-017360-072815-EB-020A***
Sample Date:		***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/28/2015***
Depth:		***(4) ft BGS***	***(4) ft BGS***	***(3) ft BGS***	***(3) ft BGS***
Sample Type:					
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1221 (PCB-1221)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1232 (PCB-1232)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1242 (PCB-1242)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1248 (PCB-1248)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1254 (PCB-1254)	mg/kg	0.089 U	0.088 U	0.084 U	1.6
Aroclor-1260 (PCB-1260)	mg/kg	1.1	1.5	5.9	0.081 U
Total PCBs	mg/kg	**1.1**[a]	**1.5**[a]	**5.9**[a]	**1.6**[a]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -021A***	***SB227-13***	***SB227-13***	***SB227-13***	***SB165-11***
Sample Identification:		***SO-017360-072815-EB-021A***	***SO-17360-042313-DR-027***	***SO-17360-042313-DR-028***	***SO-17360-042313-DR-029***	***S-17360-092911-EM-094***
Sample Date:		***7/28/2015***	***4/23/2013***	***4/23/2013***	***4/23/2013***	***9/29/2011***
Depth:		***(3) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(4-6) ft BGS***
Sample Type:						
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1221 (PCB-1221)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1232 (PCB-1232)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1242 (PCB-1242)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1248 (PCB-1248)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1254 (PCB-1254)	mg/kg	0.085 U	0.32 U	0.32 U	0.32 U	0.68 U
Aroclor-1260 (PCB-1260)	mg/kg	6	1.5	3	2.7	3.8
Total PCBs	mg/kg	**6[a]**	**1.5[a]**	**3[a]**	**2.7[a]**	**3.8[a]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***SB203-12***	***SB223-13***	***SB223-13***	***SB224-13***	***SB225-13***
Sample Identification:		***SO-17360-103112-EB-149***	***SO-17360-042313-DR-004***	***SO-17360-042313-DR-005***	***SO-17360-042313-DR-011***	***SO-17360-042313-DR-018***
Sample Date:		***10/31/2012***	***4/23/2013***	***4/23/2013***	***4/23/2013***	***4/23/2013***
Depth:		***(8-10) ft BGS***	***(8-10) ft BGS***	***(10-12) ft BGS***	***(10-12) ft BGS***	***(10-12) ft BGS***
Sample Type:						
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.35 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1.3	1.2	8.2	1.1	1.7
Total PCBs	mg/kg	**1.3**[a]	**1.2**[a]	**8.2**[a]	**1.1**[a]	**1.7**[a]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Tar House Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***SB226-13***	***SB227-13***	***SB227-13***	***SB227-13***	***SB228-13***
Sample Identification:		***SO-17360-042313-DR-022***	***SO-17360-042313-DR-027***	***SO-17360-042313-DR-028***	***SO-17360-042313-DR-029***	***SO-17360-042313-DR-032***
Sample Date:		***4/23/2013***	***4/23/2013***	***4/23/2013***	***4/23/2013***	***4/23/2013***
Depth:		***(6-8) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(2-4) ft BGS***
Sample Type:						
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	0.32 U	0.32 U	0.32 U	0.32 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1.1	1.5	3	2.7	2.3
Total PCBs	mg/kg	**1.1**[a]	**1.5**[a]	**3**[a]	**2.7**[a]	**2.3**[a]

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:			*Floor Sample -005*	*Floor Sample -008*	*Sidewall Sample -009*	*Floor Sample -012*
Sample Identification:		*TSCA* [(1)]	*SO-017360-062615-EB-005*	*SO-017360-062615-EB-008*	*SO-017360-062615-EB-009*	*SO-017360-062615-EB-012*
Sample Date:			*6/26/2015*	*6/26/2015*	*6/26/2015*	*6/26/2015*
Depth:		*a*	*(4) ft BGS*	*(6) ft BGS*	*(5) ft BGS*	*(4) ft BGS*
Sample Type:						
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	1				
Aroclor-1221 (PCB-1221)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Aroclor-1260 (PCB-1260)	mg/kg	1	0.092 U	0.11 U	0.09 U	0.083 U
Total PCBs	mg/kg	1	1.6	2	2	8.5
			1.6[a]	**2**[a]	**2**[a]	**8.5**[a]

Notes:
[(1)] Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Floor Sample -017***	***Sidewall Sample -022***	***Sidewall Sample -024***	***Floor Sample - 002A***
Sample Identification:		***SO-017360-062615-EB-017***	***SO-017360-062615-EB-022***	***SO-017360-071415-EB-024***	***SO-017360-072215-EB-002A***
Sample Date:		***6/26/2015***	***6/26/2015***	***7/14/2015***	***7/22/2015***
Depth:		***(4) ft BGS***	***(2) ft BGS***	***(3) ft BGS***	***(7) ft BGS***
Sample Type:					
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg				
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Aroclor-1260 (PCB-1260)	mg/kg	0.088 U	0.09 U	0.089 U	0.18 U
Total PCBs	mg/kg	1.1	2.2 J	2	1.5
		1.1[a]	**2.2 J[a]**	**2[a]**	**1.5[a]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -014A***	***Sidewall Sample -015A***	***Sidewall Sample -018A***	***Sidewall Sample -020A***
Sample Identification:		***SO-017360-072815-EB-014A***	***SO-017360-072815-EB-015A***	***SO-017360-072815-EB-018A***	***SO-017360-072815-EB-020A***
Sample Date:		***7/28/2015***	***7/28/2015***	***7/28/2015***	***7/28/2015***
Depth:		***(4) ft BGS***	***(4) ft BGS***	***(3) ft BGS***	***(3) ft BGS***
Sample Type:					
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg				
Aroclor-1221 (PCB-1221)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1232 (PCB-1232)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1242 (PCB-1242)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1248 (PCB-1248)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1254 (PCB-1254)	mg/kg	0.089 U	0.088 U	0.084 U	0.081 U
Aroclor-1260 (PCB-1260)	mg/kg	0.089 U	0.088 U	0.084 U	1.6
Total PCBs	mg/kg	1.1	1.5	5.9	0.081 U
		1.1[a]	**1.5[a]**	**5.9[a]**	**1.6[a]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Soil Locations Remaining Above 1 mg/kg - Former Bulk Unload Area
Soil Containing PCB Cleanup Completion Summary Report
Former Grand Rapids Metal Plant
Wyoming, Michigan

Sample Location:		***Sidewall Sample -021A***	***SB150-11***	***SB148-11***
Sample Identification:		***SO-017360-072815-EB-021A***	***S-17360-093011-EM-126***	***S-17360-093011-EM-139***
Sample Date:		***7/28/2015***	***9/30/2011***	***9/30/2011***
Depth:		***(3) ft BGS***	***(0-2) ft BGS***	***(6-8) ft BGS***
Sample Type:				
	Units			
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg			
Aroclor-1221 (PCB-1221)	mg/kg	0.085 U	0.73 U	1.1 U
Aroclor-1232 (PCB-1232)	mg/kg	0.085 U	0.73 U	1.1 U
Aroclor-1242 (PCB-1242)	mg/kg	0.085 U	0.73 U	1.1 U
Aroclor-1248 (PCB-1248)	mg/kg	0.085 U	0.73 U	1.1 U
Aroclor-1254 (PCB-1254)	mg/kg	0.085 U	0.73 U	1.1 U
Aroclor-1260 (PCB-1260)	mg/kg	0.085 U	0.73 U	1.1 U
Total PCBs	mg/kg	6	4.8	7.1
		6[a]	**4.8[a]**	**7.1[a]**

Notes:
(1) Toxic Substances Control Act (TSCA) criteria for bulk PCB remediation waste in high occupancy areas, without further conditions (40 CFR 761.61 (a)(4)(i)).
ND - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Appendices

Appendix A
Risk-Based Cleanup Plan, Approval Letter, and Addenda

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 5
77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

MAR 3 0 2015

REPLY TO THE ATTENTION OF:
LU-9J

CERTIFIED MAIL:
RETURNED RECEIPT REQUEST

Dave Favero
RACER Trust
2930 Ecorse Road
Ypsilanti, Michigan 48198

RE: 40 CFR § 761.61(a) Notification of Self-Implementing
On-Site Cleanup and Disposal of PCB Remediation Waste
Former Grand Rapids Metal Plant
300 36th Street, Wyoming, Kent County, Michigan

Dear Mr. Favero:

The U.S. Environmental Protection Agency (EPA) has completed its review of the August 26, 2014 application for a coordinated approval in accordance with 40 CFR § 761.77(c). In support of this application, your contractor, Conestoga-Rovers and Associates (CRA), submitted a risk-based PCB clean-up plan (plan). After reviewing the plan, EPA notified CRA that we could consider this application under the PCB self-implementing regulations at 40 CFR § 761.61(a).

On November 18, 2014, CRA submitted an Addendum to the plan, which included a notice of your intent to conduct this remediation in accordance with the self-implementing cleanup and disposal requirements of the PCB regulations. On March 3, 2015, CRA submitted Addendum 2 which included sample results for other media at the site.

The former Grand Rapids Metal Plant (site) is an approximately 88 acre site which is on the Michigan Act 451, Part 201 sites list and is undergoing a voluntary investigation and cleanup. This self-implementing cleanup addresses PCB contamination in two areas of the site (the Former Tar House and the Bulk Unload Area) where PCBs were identified at concentrations above 1 part per million (ppm) in soil and asphalt. No PCBs were detected in concrete and mastic samples collected at this site.

The PCB concentration in the Former Tar House (13 ppm) and the Bulk Unload Area (23 ppm) is less than 50 ppm and these areas will be remediated to a cleanup standard of 10 ppm PCB. Approximately 100 cubic yards (cy) of soil will be removed from the Former Tar House and 132 cy of soil from the Bulk Unload Area. The overlying concrete and asphalt will be removed for disposal. The remediated material will be disposed of at Waste Management's Autumn Hills Landfill, a type II municipal solid waste facility, in Zeeland, Michigan. The remediated areas will be backfilled with

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clean fill material and topped with 6 inches of gravel. There will be no concrete or asphalt cap placed over these areas. The site is restricted to non-residential, low-occupancy uses.

Based on our review, your notification is hereby approved, subject to the following conditions:

1. As stated in 40 CFR 761.61(a), you must conduct the cleanup in accordance with all applicable requirements of 40 CFR 761.61(a)(l) through (9). A copy of those requirements is enclosed for your convenience. To assist you in completing the cleanup successfully, we have placed an "X" in the margin to identify specific requirements for which your notice is deficient in describing how you plan to comply. Specific comments about each of the deficient areas are noted in bold italics following the regulatory citation.

2. The Former Tar House area must be remediated to the excavation limits depicted in Figure 5 of the August 2014 plan.

3. The Bulk Unload Area must be remediated to the excavation limits depicted in Figure 6 of the August 2014 plan.

4. The deed restriction should include information regarding the obligation for current and future property owners to apply to EPA, under 40 CFR 761.61(a), for approval to change the low-occupancy use restriction for the Former Tar House Area and/or the Bulk Unload Area. Current or future property owners may not cap the restricted areas or excavate PCB contaminated soil in these areas without EPA notification and approval.

5. You must prepare a cleanup completion summary report that describes how you conducted the PCB cleanup in accordance with the applicable regulatory requirements, including those marked with an "X" on the enclosure. You must send a copy to Jean Greensley within 60 days after completion of the cleanup of the Former Tar House Area and the Bulk Unload Area.

This approval does not relieve you from your duty to comply with all other applicable federal, state, and local requirements and does not preclude EPA from initiating any enforcement action, including an action seeking civil penalties, for any violation of federal regulations. If you wish to make any changes to your notification, you must submit your proposal to Jean Greensley, of my staff, in writing no less than 14 calendar days prior to the proposed implementation of the change. If you have any questions, please contact her by e-mail at greensley.jean@epa.gov or by telephone at (312) 353-1171.

Sincerely,

Jose G. Cisneros
Chief
Remediation and Reuse Branch

Enclosure

cc: Darlene Stringer, MDEQ
Deborah MacKenzie-Taylor, MDEQ
Adam London, Kent County Health Department
Jeni Quigley, Conestoga-Rovers and Associates

ENCLOSURE

Regulatory Requirements of 40 CFR 761.61(a)

Please note that an "X" in the margin [ ] indicates that the notification and certification of your intention to conduct a self-implementing cleanup does not adequately explain how you intend to comply with the regulatory requirement.

[ ] (1) ***Applicability***

(i) The self-implementing procedures may not be used to clean up:

(A) Surface or ground waters.

(B) Sediments in marine and freshwater ecosystems.

(C) Sewers or sewage treatment systems.

(D) Any private or public drinking water sources or distribution systems.

(E) Grazing lands.

(F) Vegetable gardens.

[ ] (ii) The self-implementing cleanup provisions shall not be binding upon cleanups conducted under other authorities, including but not limited to, actions conducted under section 104 or section 106 of CERCLA, or section 3004(u) and (v) or section 3008(h) of RCRA.

[ ] (2) ***Site characterization***. Any person conducting self-implementing cleanup of PCB remediation waste must characterize the site adequately to be able to provide the information required by paragraph (a)(3) of this section. Subpart N of this part provides a method for collecting new site characterization data or for assessing the sufficiency of existing site characterization data.

[ ] (3) ***Notification and certification***.

[ ] (i) At least 30 days prior to the date that the cleanup of a site begins, the person in charge of the cleanup or the owner of the property where the PCB remediation waste is located shall notify, in writing, the EPA Regional Administrator, the Director of the State or Tribal environmental protection agency, and the Director of the county or local environmental protection agency where the cleanup will be conducted. The notice shall include:

[ ] (A) The nature of the contamination, including kinds of materials contaminated.

[ ] (B) A summary of the procedures used to sample contaminated and adjacent areas and a table or cleanup site map showing PCB concentrations measured in all pre-cleanup characterization samples. The summary must include sample collection and analysis dates. The EPA Regional Administrator may require more detailed information including, but not limited to, additional characterization sampling or

all sample identification numbers from all previous characterization activities at the cleanup site.

[ ] (C) The location and extent of the identified contaminated area, including topographic maps with sample collection sites cross referenced to the sample identification numbers in the data summary from paragraph (a)(3)(i)(B) of this section.

[ ] (D) A cleanup plan for the site, including schedule, disposal technology, and approach. This plan should contain options and contingencies to be used if unanticipated higher concentrations or wider distributions of PCB remediation waste are found or other obstacles force changes in the cleanup approach.

[ ] (E) A written certification, signed by the owner of the property where the cleanup site is located and the party conducting the cleanup, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the cleanup site, are on file at the location designated in the certificate, and are available for EPA inspection. Persons using alternate methods for chemical extraction and chemical analysis for site characterization must include in the certificate a statement that such a method will be used and that a comparison study which meets or exceeds the requirements of subpart Q of this part, and for which records are on file, has been completed prior to verification sampling.

[ ] (ii) Within 30 calendar days of receiving the notification, the EPA Regional Administrator will respond in writing approving of the self-implementing cleanup, disapproving of the self-implementing cleanup, or requiring additional information. If the EPA Regional Administrator does not respond within 30 calendar days of receiving the notice, the person submitting the notification may assume that it is complete and acceptable and proceed with the cleanup according to the information the person provided to the EPA Regional Administrator. Once cleanup is underway, the person conducting the cleanup must provide any proposed changes from the notification to the EPA Regional Administrator in writing no less than 14 calendar days prior to the proposed implementation of the change. The EPA Regional Administrator will determine in his or her discretion whether to accept the change, and will respond to the change notification verbally within 7 calendar days and in writing within 14 calendar days of receiving it. If the EPA Regional Administrator does not respond verbally within 7 calendar days and in writing within 14 calendar days of receiving the change notice, the person who submitted it may deem it complete and acceptable and proceed with the cleanup according to the information in the change notice provided to the EPA Regional Administrator.

[ ] (iii) Any person conducting a cleanup activity may obtain a waiver of the 30-day notification requirement, if they receive a separate waiver, in writing, from each of

the agencies they are required to notify under this section. The person must retain the original written waiver as required in paragraph (a)(9) of this section.

[ ] (4) ***Cleanup levels***. For purposes of cleaning, decontaminating, or removing PCB remediation waste under this section, there are four general waste categories: bulk PCB remediation waste, non-porous surfaces, porous surfaces, and liquids. Cleanup levels are based on the kind of material and the potential exposure to PCBs left after cleanup is completed.

[ ] (i) *Bulk PCB remediation waste*. Bulk PCB remediation waste includes, but is not limited to, the following non-liquid PCB remediation waste: soil, sediments, dredged materials, muds, PCB sewage sludge, and industrial sludge.

[ ] (A) *High occupancy areas*. The cleanup level for bulk PCB remediation waste in high occupancy areas is $\leq$1 ppm without further conditions. High occupancy areas where bulk PCB remediation waste remains at concentrations >1 ppm and $\leq$10 ppm shall be covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

[ ] (B) *Low occupancy areas*.

[ ] (1) The cleanup level for bulk PCB remediation waste in low occupancy areas is $\leq$25 ppm unless otherwise specified in this paragraph.

[ ] (2) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and $\leq$50 ppm if the site is secured by a fence and marked with a sign including the M_L mark.

[ ] (3) Bulk PCB remediation wastes may remain at a cleanup site at concentrations >25 ppm and $\leq$100 ppm if the site is covered with a cap meeting the requirements of paragraphs (a)(7) and (a)(8) of this section.

[ ] (ii) *Non-porous surfaces*. In high occupancy areas, the surface PCB cleanup standard is $\leq$ 10 $\mu g/100\ cm^2$ of surface area. In low occupancy areas, the surface cleanup standard is <100 $\mu g/100\ cm^2$ of surface area. Select sampling locations in accordance with subpart P of this part or a sampling plan approved under paragraph (c) of this section.

[ ] (iii) *Porous surfaces*. In both high and low occupancy areas, any person disposing of porous surfaces must do so based on the levels in paragraph (a)(4)(i) of this section. Porous surfaces may be cleaned up for use in accordance with §761.79(b)(4) or §761.30(p).

[ ] (iv) *Liquids*. In both high and low occupancy areas, cleanup levels are the concentrations specified in §761.79(b)(1) and (b)(2).

[ ] (v) *Change in the land use for a cleanup site.* Where there is an actual or proposed change in use of an area cleaned up to the levels of a low occupancy area, and the exposure of people or animal life in or at that area could reasonably be expected to increase, resulting in a change in status from a low occupancy area to a high occupancy area, the owner of the area shall clean up the area in accordance with the high occupancy area cleanup levels in paragraphs (a)(4)(i) through (a)(4)(iv) of this section.

[ ] (vi) The EPA Regional Administrator, as part of his or her response to a notification submitted in accordance with §761.61(a)(3) of this part, may require cleanup of the site, or portions of it, to more stringent cleanup levels than are otherwise required in this section, based on the proximity to areas such as residential dwellings, hospitals, schools, nursing homes, playgrounds, parks, day care centers, endangered species habitats, estuaries, wetlands, national parks, national wildlife refuges, commercial fisheries, and sport fisheries.

[ ] (5) ***Site cleanup.*** In addition to the options set out in this paragraph, PCB disposal technologies approved under §§761.60 and 761.70 are acceptable for on-site self-implementing PCB remediation waste disposal within the confines of the operating conditions of the respective approvals.

[ ] (i) *Bulk PCB remediation waste.* Any person cleaning up bulk PCB remediation waste shall do so to the levels in paragraph (a)(4)(i) of this section.

[ ] (A) Any person cleaning up bulk PCB remediation waste on-site using a soil washing process may do so without EPA approval, subject to all of the following:
(1) A non-chlorinated solvent is used.
(2) The process occurs at ambient temperature.
(3) The process is not exothermic.
(4) The process uses no external heat.
(5) The process has secondary containment to prevent any solvent from being released to the underlying or surrounding soils or surface waters.
(6) Solvent disposal, recovery, and/or reuse is in accordance with relevant provisions of approvals issued according to paragraphs (b)(1) or (c) of this section or applicable paragraphs of §761.79.

[ ] (B) Bulk PCB remediation waste may be sent off-site for decontamination or disposal in accordance with this paragraph, provided the waste is either dewatered on-site or transported off-site in containers meeting the requirements of the DOT Hazardous Materials Regulations (HMR) at 49 CFR parts 171 through 180.

[ ] (1) Removed water shall be disposed of according to paragraph (b)(1) of this section.

[ ] (2) Any person disposing off-site of dewatered bulk PCB remediation waste shall do so as follows:

(i) Unless sampled and analyzed for disposal according to the procedures set out in §§761.283, 761.286, and 761.292, the bulk PCB remediation waste shall be assumed to contain ≥50 ppm PCBs.
(ii) Bulk PCB remediation wastes with a PCB concentration of <50 ppm shall be disposed of in accordance with paragraph (a)(5)(v)(A) of this section.
(iii) Bulk PCB remediation wastes with a PCB concentration ≥50 ppm shall be disposed of in a hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA, or a PCB disposal facility approved under this part.
(iv) The generator must provide written notice, including the quantity to be shipped and highest concentration of PCBs (using extraction EPA Method 3500B/3540C or Method 3500B/3550B followed by chemical analysis using EPA Method 8082 in SW-846 or methods validated under subpart Q of this part) at least 15 days before the first shipment of bulk PCB remediation waste from each cleanup site by the generator, to each off-site facility where the waste is destined for an area not subject to a TSCA PCB Disposal Approval.

[ ] (3) Any person may decontaminate bulk PCB remediation waste in accordance with §761.79 and return the waste to the cleanup site for disposal as long as the cleanup standards of paragraph (a)(4) of this section are met.

[ ] (ii) Non-porous surfaces. PCB remediation waste non-porous surfaces shall be cleaned on-site or off-site for disposal on-site, disposal off-site, or use, as follows:

[ ] (A) For on-site disposal, non-porous surfaces shall be cleaned on-site or off-site to the levels in paragraph (a)(4)(ii) of this section using:
(1) Procedures approved under §761.79.
(2) Technologies approved under §761.60(e).
(3) Procedures or technologies approved under paragraph (c) of this section.

[ ] (B) For off-site disposal, non-porous surfaces:
(1) Having surface concentrations <100 μg/100 cm^2 shall be disposed of in accordance with paragraph (a)(5)(i)(B)(2)(ii) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c)(6)(i).
(2) Having surface concentrations ≥100 μg/100 cm^2 shall be disposed of in accordance with paragraph (a)(5)(i)(B)(2)(iii) of this section. Metal surfaces may be thermally decontaminated in accordance with §761.79(c)(6)(ii).

[ ] (C) For use, non-porous surfaces shall be decontaminated on-site or off-site to the standards specified in §761.79(b)(3) or in accordance with §761.79(c).

[ ] (iii) *Porous surfaces.* Porous surfaces shall be disposed on-site or off-site as bulk PCB remediation waste according to paragraph (a)(5)(i) of this section or decontaminated for use according to §761.79(b)(4), as applicable.

[ ] (iv) *Liquids*. Any person disposing of liquid PCB remediation waste shall either:
(A) Decontaminate the waste to the levels specified in §761.79(b)(1) or (b)(2).
(B) Dispose of the waste in accordance with paragraph (b) of this section or an approval issued under paragraph (c) of this section.

[ ] (v) *Cleanup wastes*. Any person generating the following wastes during and from the cleanup of PCB remediation waste shall dispose of or reuse them using one of the following methods:

[ ] (A) Non-liquid cleaning materials and personal protective equipment waste at any concentration, including non-porous surfaces and other non-liquid materials such as rags, gloves, booties, other disposable personal protective equipment, and similar materials resulting from cleanup activities shall be either decontaminated in accordance with §761.79(b) or (c), or disposed of in one of the following facilities, without regard to the requirements of subparts J and K of this part:
(1) A facility permitted, licensed, or registered by a State to manage municipal solid waste subject to part 258 of this chapter.
(2) A facility permitted, licensed, or registered by a State to manage non-municipal non-hazardous waste subject to §§257.5 through 257.30 of this chapter, as applicable.
(3) A hazardous waste landfill permitted by EPA under section 3004 of RCRA, or by a State authorized under section 3006 of RCRA.
(4) A PCB disposal facility approved under this part.

[ ] (B) Cleaning solvents, abrasives, and equipment may be reused after decontamination in accordance with §761.79.

[ ] (6) ***Cleanup verification*** —

[ ] (i) *Sampling and analysis*. Any person collecting and analyzing samples to verify the cleanup and on-site disposal of bulk PCB remediation wastes and porous surfaces must do so in accordance with subpart O of this part. Any person collecting and analyzing samples from non-porous surfaces must do so in accordance with subpart P of this part. Any person collecting and analyzing samples from liquids must do so in accordance with §761.269. Any person conducting interim sampling during PCB remediation waste cleanup to determine when to sample to verify that cleanup is complete, may use PCB field screening tests.

[ ] (ii) *Verification*.
(A) Where sample analysis results in a measurement of PCBs less than or equal to the levels specified in paragraph (a)(4) of this section, self-implementing cleanup is complete.
(B) Where sample analysis results in a measurement of PCBs greater than the levels specified in paragraph (a)(4) of this section, self-implementing cleanup of the sampled PCB remediation waste is not complete. The owner or operator of the site must either dispose of the sampled PCB remediation waste, or reclean the

waste represented by the sample and reinitiate sampling and analysis in accordance with paragraph (a)(6)(i) of this section.

[ ] (7) ***Cap requirements.*** A cap means, when referring to on-site cleanup and disposal of PCB remediation waste, a uniform placement of concrete, asphalt, or similar material of minimum thickness spread over the area where remediation waste was removed or left in place in order to prevent or minimize human exposure, infiltration of water, and erosion. Any person designing and constructing a cap must do so in accordance with §264.310(a) of this chapter, and ensure that it complies with the permeability, sieve, liquid limit, and plasticity index parameters in §761.75(b)(1)(ii) through (b)(1)(v). A cap of compacted soil shall have a minimum thickness of 25 cm (10 inches). A concrete or asphalt cap shall have a minimum thickness of 15 cm (6 inches). A cap must be of sufficient strength to maintain its effectiveness and integrity during the use of the cap surface which is exposed to the environment. A cap shall not be contaminated at a level ≥1 ppm PCB per AroclorTM (or equivalent) or per congener. Repairs shall begin within 72 hours of discovery for any breaches which would impair the integrity of the cap.

[X] (8) ***Deed restrictions for caps, fences and low occupancy areas***. When a cleanup activity conducted under this section includes the use of a fence or a cap, the owner of the site must maintain the fence or cap, in perpetuity. In addition, whenever a cap, or the procedures and requirements for a low occupancy area, is used, the owner of the site must meet the following conditions:

[ ] (i) Within 60 days of completion of a cleanup activity under this section, the owner of the property shall:

[ ] (A) Record, in accordance with State law, a notation on the deed to the property, or on some other instrument which is normally examined during a title search, that will in perpetuity notify any potential purchaser of the property:

(1) That the land has been used for PCB remediation waste disposal and is restricted to use as a low occupancy area as defined in §761.3.

(2) Of the existence of the fence or cap and the requirement to maintain the fence or cap.

(3) The applicable cleanup levels left at the site, inside the fence, and/or under the cap.

[ ] (B) Submit a certification, signed by the owner, that he/she has recorded the notation specified in paragraph (a)(8)(i)(A) of this section to the EPA Regional Administrator.

[ ] (ii) The owner of a site being cleaned up under this section may remove a fence or cap after conducting additional cleanup activities and achieving cleanup levels, specified in paragraph (a)(4) of this section, which do not require a cap or fence. The owner may remove the notice on the deed no earlier than 30 days after achieving the cleanup levels specified in this section which do not require a fence or cap.

The deed restriction should include information regarding the obligation for current and future property owners to apply to EPA, under 40 CFR 761.61(a), for approval to change the low-occupancy use restriction for the Former Tar House Area and/or the Bulk Unload Area. Current or future property owners may not cap the restricted areas or excavate PCB contaminated soil in these areas without EPA notification and approval.

[ ] (9) ***Recordkeeping***. For paragraphs (a)(3), (a)(4), and (a)(5) of this section, recordkeeping is required in accordance with §761.125(c)(5).

CONESTOGA-ROVERS & ASSOCIATES

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Risk-Based PCB Cleanup Plan

Former Grand Rapids Metal Plant
300 36th Street SW
Wyoming, Michigan

Prepared for: RACER Trust

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Partners in Sustainability

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Section 1.0 Introduction

Conestoga-Rovers & Associates (CRA) has prepared this Risk-Based Polychlorinated Biphenyl (PCB) Cleanup Plan (Plan) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The Site location is presented on Figure 1. RACER Trust, after consultation with the Michigan Department of Environmental Quality (MDEQ), is requesting a coordinated review of this Plan in accordance with 40 Code of Federal Regulations (CFR) 761.77(c).

In accordance with 40 CFR 761.77(a), RACER Trust is submitting the following information required as part of the coordinated review request:

- The Plan has been prepared to address the former Tar House and Bulk Unload areas of the Site, as further described in this document.
- RACER Trust is currently completing investigation and monitoring at the Site voluntarily under Michigan Act 451, Part 201 (Part 201). The Site is currently listed on the Part 201 Sites List (Site Identification No. 41000115).
- RACER Trust has been working with Ms. Darlene Stringer, MDEQ Project Manager (616.356.0023), in evaluating the Site under Part 201.
- RACER Trust's Site Identification No. is MIK156633412. Additionally, Site Identification No. MID006020408 is associated with the Site; however, this Site Identification No. is associated with the current property owner.
- As discussed in Section 5.0, the current property owner, the City of Wyoming Brownfield Redevelopment Authority (WBRA), and RACER Trust are aware of and will adhere to the reporting and recordkeeping requirements in 40 CFR 761 Subparts J and K.

This Plan has been prepared in accordance with the procedures set forth in 40 CFR, Part 761, 761.61(c), as an application to the United States Environmental Protection Agency (U.S. EPA) to implement a cleanup of Site-related PCB contamination under the risk-based cleanup option and includes applicable aspects of the self-implementation alternative described in 40 CFR 761.61(a). Field methods, procedures and notifications proposed in this Plan are consistent with the self-implementing option. Modifications to the self-implementing option incorporated in this Plan are delineation sampling density, taking into account the existing Site data and future use of the Site. In addition to submittal to the U.S. EPA, this Plan is being filed with the MDEQ and the Kent County Health Department (KCHD) in accordance with the procedures set forth in 40 CFR 761.61(a).

1.1 Cleanup Plan Summary

This Plan has been prepared in accordance with the risk-based cleanup option under 40 CFR 761.61(c) while considering exposure levels consistent with the self-implementing option low-occupancy standards without further restrictions in 40 CFR 761.61(a)(4)(i)(B)(1). The specific modifications to the self-implementing option are summarized below and described in further detail in the subsequent sections of the Plan. Although this Plan includes elements described in 40 CFR 761.61(a), this Plan is proposed under 40 CFR 761.61(c) because it proposes modifications from prescribed self-implementing sampling and cleanup methods detailed in 40 CFR 761.61(a) as summarized below:

- With respect to the in-situ delineation sampling frequency, the Plan proposes a less stringent sampling density than that described in 40 CFR 761.265. Instead of a characterization sampling grid based on a 3-meter (10-foot) interval, the Plan proposes an approximate 6-meter (20-foot) sampling grid interval with discrete sampling in 2-foot vertical intervals. Justification for this deviation is provided in Sections 3.0 and 4.0.

This Plan also specifies deed restrictions that will be placed on the Site consistent with 40 CFR 761.61(a)(8). The deed restrictions will identify use restrictions, occupancy designations, where caps are present on the property, maintenance requirements and the remaining PCB concentrations. The proposed cleanup level for on-Site contamination is 10 parts per million (ppm), which allows for the areas to be utilized in a manner in the future that would meet the definition of a Low Occupancy Area under 40 CFR 761 without further conditions. A 10 ppm cleanup level would allow use of the areas in a manner in the future that with the addition of a cap would meet the requirements for a High Occupancy Area.

1.2 Site Background

The Site is located at 300 36th Street SW and consists of approximately 88 acres of land. General Motors Corporation (GMC) initiated automotive manufacturing operations at the Site in 1936. Additional buildings were constructed and the Site was expanded several times between 1937 and 2006. Primary operations conducted at the Site consisted of metal fabrication and assembly for consumer vehicles. Operations ceased at the Site on June 30, 2010. GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC) (fka GMC) retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and MLC's interests were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites

formerly owned by MLC, including the Site. The Site was sold to Thunder Ventures, LLC on June 28, 2011 who then transferred ownership to WBRA; however, RACER Trust retains certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC. As such, the scope of this Plan is limited to specific subsurface areas of the Site only.

The Site historically included an approximately 2 million square-foot Main Manufacturing Building and several outlying buildings and ancillary structures (Wastewater Treatment Plant [WWTP], Power House, Press Staging Building, Primary Switch House, Baler House, Rack Make-Up Building, South Fire Pump House, West Fire Pump House, Storm Sewer Pump House, Cooling Tower Pump House, Metal Storage Shed, and Guard House), asphalt and concrete-paved areas, a stormwater retention pond, and vegetated and landscaped areas. Figure 2 presents a Site plan.

The majority of the historical structures at the Site have been decommissioned and demolished, and the majority of the Site has been re-graded in anticipation for new construction. As part of initial facility decommissioning, a draft Facility Environmental Assessment (FEA) was performed by CRA in October 2010, which included an evaluation of above grade potential PCB-containing or impacted materials. Subsequently and prior to initiation of decommissioning and demolition activities, Soils and Materials Engineers, Inc. (SME) submitted a PCB Remediation Notification and Certification Letter (SME, 2011) to the U.S. EPA, MDEQ, and KCHD on behalf of Thunder Ventures, LLC on September 19, 2011 to address the environmental response activities to be conducted as part of the decommissioning and demolition of the former Grand Rapids Metal Plant structures. The September 19, 2011 letter was approved by U.S. EPA on November 2, 2011.

Additionally, as part of the on-going investigations and assessments being conducted at the Site associated with the Part 201 sites listing, a Current Conditions Report (CCR) was prepared by CRA in December 2010, which included an evaluation of potential PCB-containing materials. The scope of this Plan is limited to specific subsurface areas of the Site only, as described above. According to historical document reviews and interviews with Site personnel, the known historical uses of PCBs at the Site included: fluorescent light ballasts, hydraulic oils in machinery, and dielectric oil within transformers and capacitors. Potential PCB-containing materials or PCB-containing materials observed included: dielectric fluids; impacted concrete and metal surfaces; light ballasts; natural gas lines; non-electrical oil-containing equipment such as elevators, air compressors and dock levelers; and solid PCB bulk product materials (i.e., floor block).

1.3 Environmental Setting

The Site is located in a mixed industrial, commercial, residential and recreational area in the City of Wyoming, Michigan with Buchanan Ave SW and mixed industrial/residential to the east, mixed recreational and residential to the north, railroad tracks and mixed commercial/industrial to the west, and 40th Street SW and residential to the south as further discussed below.

The Site is abutted to the north by Price and Company, Godwin Heights Public Schools athletic fields and residential properties, with Hillcroft Park located beyond.

The Site is abutted to the east by Buchanan Street followed by an Amoco gas station, Tint Factory, N&A Auto Repair, Prestige Transport, LLC, Steil Property Management, RSP Investment Property, Inc., MSC Industrial Supply Co., Clean Rooms International, Independent Glass, Chase Creative Unlimited, Ter Molen & Hart Sheet Metal, Tracer Tool & Die Co., United Auto Workers (UAW) Hall, Conical Tapered Mills, a vacant commercial/industrial building, a vacant lot, Mark Maker Company, and residential properties.

The Site is abutted to the south by 40th Street followed by Accurate Alignment & Brake and residential properties.

The Site is abutted to the west by railroad tracks, Cole Drain, Consumers high-tension power lines, Consumers Service Center, The Macomb Group, and Clay Avenue followed by Ryder Truck, Cummins, a vacant commercial/industrial building, K-Mac Plastics, Floyd's Electric, Consolidated Metal Products, Inc., Rose Pest Solutions, Donald Engineering, and Earl Jourdan Auto Parts.

The Site is zoned I2, which is Industrial District - General. The Site's use has been restricted to non-residential use consistent with the Declaration of Restrictive Covenant and Access Agreement executed on June 27, 2011 and recorded with the Kent County Register of Deeds. Additionally, the restrictive covenant prohibits "the use of groundwater at, in, or under the Property by any person or entity for any purpose, including potable and non-potable uses."

1.4 Report Organization

The remainder of this Plan focuses on summarizing previous investigations and proposed additional delineation and cleanup activities. Subsequent sections are comprised as follows:

- Section 2.0 – Previous Investigations and Corrective Measures
- Section 3.0 – Additional Site Characterization Activities

- Section 4.0 – Cleanup Plan Approach
- Section 5.0 – Certification Statement
- Section 6.0 - References

Section 2.0 Previous Investigations and Corrective Measures

Environmental investigations and remedial actions have been completed at the Site, primarily under the Part 201 Program. In addition to the Part 201 activities, several rounds of investigation were completed to evaluate PCBs.

Additionally, based on discussions with representatives of the WBRA during the decommissioning and demolition activities, two areas where PCBs were identified to be present in soil at concentrations above the High Occupancy Cleanup Level of 1 ppm/1 milligram per kilogram (mg/kg) for bulk remediation waste (without further conditions)(PCB Area Nos. 1 and 2) were identified to potentially be utilized in a manner in the future that would meet the definition of a High Occupancy Area under 40 CFR 761. As such, a *Self-Implementing Plan for the Remediation of PCB-Impacted Soils Pursuant to 40 CFR 761.61(a)*(SIP)(CRA, 2012) was prepared and submitted to U.S. EPA, MDEQ, and KCHD on June 7, 2012 to address these areas during the decommissioning and demolition activities. The scope of the June 7, 2012 SIP was limited to specific subsurface areas of the Site only, identified as PCB Area Nos. 1 and 2. The SIP was conditionally approved by U.S. EPA on August 6, 2012 and was implemented in August 2012. A *Soil Containing PCB Cleanup Completion Summary Report* (Completion Summary Report)(CRA, 2013) was prepared and submitted to the U.S. EPA on May 16, 2013 after completion of the activities. Copies of the SIP and Completion Summary Report are presented in Appendix A and B, respectively.

Additional areas where PCBs were detected in soil above the High Occupancy Area Cleanup Level of 1 ppm/1 mg/kg for bulk remediation waste (without further conditions) are present at the Site outside PCB Area Nos. 1 and 2. These areas were not addressed in the June 7, 2012 SIP and at the time it was identified that they would be further evaluated and addressed, as applicable, in accordance with 40 CFR 761.61 at a later date. These areas, the former Tar House Area and the Bulk Unload Area, are covered under this Plan.

2.1 PCB Investigation Activities

This section addresses specific subsurface evaluations conducted relative to delineation of two areas (the former Tar House Area and Bulk Unload Area) where PCBs were identified during various stages of Site-wide investigation activities at concentrations above the High Occupancy

Area Cleanup Level of 1 ppm/1 mg/kg for bulk remediation waste (without further conditions) set forth in 40 CFR 761.61(a)(4)(i)(A).

2.1.1 Soil Boring Advancement/Soil Sampling

The former Tar House and Bulk Unload Areas were investigated for PCB contamination through the installation of soil borings and the collection of soil samples.

Soil borings were advanced utilizing a rotosonic or direct-push (i.e., Geoprobe®) drill rig with continuous Macrocore® sampling. The Macrocore® samples were logged, examined by a CRA geologist for visual/olfactory evidence of impact, and screened with an 11.7 electron volt (eV) bulb photoionization detector (PID). The stratigraphic soil boring logs are presented in Appendix C. Soil samples, including Quality Assurance/Quality Control (QA/QC) samples, were collected from the soil boring locations for laboratory analysis as described in Sections 2.1.1 and 2.1.2. A sample summary is presented in Table 1.

Soil cuttings were screened with an 11.7 eV bulb PID and examined for visual/olfactory indication of contamination. All soil cuttings were containerized in Department of Transportation (DOT)-approved 55-gallon drums labeled for future characterization and off-Site disposal.

Upon completion of soil sample collection, each soil boring was abandoned by backfilling the soil boring annulus with bentonite chips to the ground surface and properly hydrating.

A survey was completed for the soil boring locations. Soil boring locations and elevations were surveyed, with elevations to the nearest 0.01-foot. The elevations were referenced to a designated above mean sea level benchmark.

2.1.2 Former Tar House Area

A Site-wide investigation was conducted in March 2011. As part of this investigation, one soil boring, SB100-11, was advanced in the approximate location of the former Tar House. Soil samples were collected for chemical analysis from the 0.5 to 2.5-foot interval immediately beneath a concrete slab (0 to 1-foot interval sample was comprised of concrete floor slab) and from the 8 to 10-foot interval below ground surface (bgs). The soil samples were submitted to the laboratory for chemical analysis for PCBs, Target Compound List (TCL) volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), and Target Analyte List (TAL) metals (minus earth metals). Based on the analytical results, PCBs were detected in the soil sample collected from 0.5 to 2.5 feet bgs from SB100-11 at a concentration of 3.3 mg/kg.

Based on the detection of PCBs above 1 mg/kg in the shallow soil sample collected from SB100-11, five additional soil borings were advanced in September 2011 (SB162-11 through SB166-11). Four soil borings (SB162-11 through SB165-11) were advanced on 3-meter (10-foot) spacing directly to the north, south, east, and west of SB100-11, and one soil boring (SB166-11) was advanced adjacent to SB100-11 to evaluate the vertical and horizontal PCB impacts consistent with 40 CFR 761 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with §761.61(a)(2)." Soil samples were collected for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the concrete slab were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were detected in samples collected from SB165-11 (at 0 to 2 feet bgs, 2 to 4 feet bgs, and 4 to 6 feet bgs) and SB166-11 (at 0 to 2 feet bgs and 2 to 4 feet bgs) at concentrations above 1 mg/kg.

Based on the results of the September 2011 investigation, eight soil borings (SB200-12 through SB206-12, and SB215-12) were advanced in October 2012. Five soil borings (SB202-12 through SB206-12) were advanced on 3-meter (10-foot) spacing to the northwest, west, southwest, and south of SB165-11 to further evaluate the vertical and horizontal extent of impacts. An additional boring (SB215-12) was advanced adjacent to SB165-11 to further evaluate the vertical extent of impacts in this area. Two soil borings SB200-12 and SB201-12 were advanced on a 3-meter (10-foot) spacing to the northeast and southeast of SB166-11 to further evaluate the vertical and horizontal extent of impacts. Soil samples were collected from each boring for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete slab and continuing to approximately 10feet bgs. Based on the analytical results, PCBs were detected in a sample collected from SB203-12 (at 8 to 10 feet bgs) at a concentration above 1 mg/kg.

Based on the results of the October 2012 investigation, eight soil borings (SB223-13 through SB230-13) were advanced in April 2013. Seven soil borings (SB224-14 through SB230-13) were advanced on 3-meter (10-foot) spacing to the north, east, southeast, south, southwest, west, and northwest of SB203-12 to further evaluate the vertical and horizontal extent of impacts. One soil boring (SB223-13) was advanced adjacent to SB203-12 in order to confirm the original result and collect samples at deeper intervals. Based on the analytical results, PCBs were detected in samples collected from SB223-13 (at 8 to 10 feet bgs and 10 to 12 feet bgs), SB224-13 (at 10 to 12 feet bgs), SB225-13 (at 10 to 12 feet bgs), SB226-13 (at 6 to 8 feet bgs), SB227-13 (at 4 to 6 feet bgs, 6 to 8 feet bgs, and 8 to 10 feet bgs), and SB228-13 (at 2 to 4 feet bgs) at concentrations above 1 mg/kg.

Based on the results of the April 2013 investigation, the decision was made to modify the delineation approach presented in 40 CFR 761 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with §761.61(a)(2)" in order to reduce the number of samples necessary to characterize the PCB contamination in this area. 40 CFR 761 Subpart N identifies the utilization of a 3-meter (10-foot) spacing grid for the collection of characterization samples; this Plan proposes the use of an approximate 6-meter (20-foot) spacing grid for the collection of characterization samples, depending on Site conditions encountered. The rationale behind this modification is that the extent of soil removal associated with the former Tar House Area will ultimately be determined by verification soil sampling, which will be performed in accordance with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces," to the extent necessary to achieve the proposed clean-up goals (see Section 4.0).

Based on the above outlined approach, in August 2013 eight soil borings (SB255-13 through SB262-13) were advanced to the north, northeast, east, southeast, south, southwest, west, and northwest of the area of previous investigations at an approximate spacing of 10 to 20 feet beyond the outermost delineation grid boring. Soil samples were collected from immediately beneath the concrete slab/asphalt road to just above the water table (approximately 14 to 16 feet bgs). Samples were collected in 2-foot intervals and all samples were analyzed by the analytical laboratory. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg.

Stratigraphic soil boring logs are presented in Appendix C. Table 1 presents a sample summary. Table 2 presents a summary of PCB analytical results for the former Tar House Area. Figure 3 presents the sample locations and analytical results.

2.1.3 Bulk Unload Area

A Site-wide investigation was conducted in March 2011. As part of this investigation, numerous soil borings were advanced in the Bulk Unload Area to further delineate identified impacts to soil from PNAs and metals. During this investigation, three soil borings (SB109-11 through SB111-11) were advanced and soil samples were collected for chemical analysis in 2-foot intervals from immediately beneath the asphalt parking lot to 10 feet bgs. The soil samples were submitted to the laboratory for chemical analysis for PCBs, TCL VOCs, PNAs, and TAL metals (minus earth metals). Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg.

A supplemental Site-wide investigation was conducted in September 2011 to further evaluate the PNA and metals impacts in the Bulk Unload Area. As part of this investigation, six soil

borings (SB146-11 through SB151-11) were advanced adjacent to the western Site boundary and along the perimeter of the Bulk Unload Area. As the objective of these borings was to further delineate the PNA and metals impacts in this area because PCB impacts had not yet been identified, an approximate 9-meter (30-foot) spacing between samples was utilized. As identified in Section 2.1.2, the extent of soil removal associated with the Bulk Unload Area will ultimately be determined by verification soil sampling, which will be performed in accordance with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces," to the extent necessary to achieve the proposed clean-up goals (see Section 4.0). Therefore, the modification to the sampling sample spacing is adequate for the purposes of characterization of the area for remedial evaluation and action. Soil samples were collected for chemical analysis in 2-foot intervals from immediately beneath the asphalt parking lot to 10 feet bgs. The soil samples were submitted to the laboratory for chemical analysis for PCBs, TCL VOCs, PNAs, and TAL metals (minus earth metals). Based on the analytical results, PCBs were detected in samples collected from SB147-11 (at 0 to 2 feet bgs), SB148-11 (at 0 to 2 feet bgs, 2 to 4 feet bgs, and 6 to 8 feet bgs), SB149-11 (at 0 to 2 feet bgs), and SB150-11 (at 0 to 2 feet bgs) at concentrations above 1 mg/kg.

Based on the results of the September 2011 investigation, two additional soil borings (SB207-12 and SB212-12) were advanced in November 2012 to evaluate the vertical and horizontal PCB impacts consistent with 40 CFR 761 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with §761.61(a)(2)," to the extent this was able to be performed based on Site conditions.. One soil boring (SB207-12) was advanced to the north of SB147-11 and one soil boring (SB-212-12) was advanced to the south of SB150-11 along the Site's western property boundary. Soil samples were collected for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete slab and continuing to approximately 10 feet bgs. Based on the analytical results, PCBs were detected in samples collected from SB207-12 (at 2 to 4 feet bgs and 4 to 6 feet bgs) at a concentration above 1 mg/kg.

Based on the results of the November 2012 investigation, two additional soil borings (SB232-13 and SB277-13) were advanced in April 2013 and October 2013 in order to evaluate the vertical and horizontal PCB impacts identified in SB207-12 consistent with 40 CFR 761 Subpart N. Soil samples were collected in 2-foot intervals to 10 feet bgs. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg.

Based on the detections of PCBs in SB147-11, SB148-11, SB149-11, SB150-11, and SB207-12 along the western property line, which consists of an approximate 6-inch concrete curb, in the Bulk Unload Area at concentrations above 1 mg/kg, additional off-Site investigation will need to

be performed to delineate this area. Proposed off-Site delineation sampling is presented in Section 3.0.

Stratigraphic soil boring logs are presented in Appendix C. Table 1 presents a sample summary. Table 3 presents a summary of PCB analytical results for the Bulk Unload Area. Figure 4 presents the sample locations and analytical results.

2.1.4 Analytical Methods

The soil samples were submitted under chain-of-custody protocols to TestAmerica Laboratories of North Canton, Ohio, TriMatrix Laboratories of Grand Rapids, Michigan, or ALS Environmental Laboratory of Holland, Michigan. The soil samples were extracted and analyzed for individual Aroclors (Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260) and total PCBs utilizing U.S. EPA Method 3540C/3550C for extraction/preparation and Method 8082/8082A for chemical analysis consistent with SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" 3rd Edition, and promulgated updates, November 1986.

Copies of analytical reports will be maintained and available for review by U.S. EPA and MDEQ as specified in Section 5.0.

2.1.5 Data Validation

All analytical data was assessed utilizing quality control criteria established by the Quality Assurance Project Plan (QAPP) for the on-going Part 201 investigation work at the Site. Data validation memoranda outlining the details of the data validation will be maintained and available for review by U.S. EPA and MDEQ as specified in Section 5.0.

2.2 Previous PCB-Impacted Soil Removal

In August 2012, RACER Trust remediated two areas within the former Main Manufacturing Building footprint that contained PCB contaminated soils. The work was performed under the June 2012 SIP (CRA, 2012) submitted to the U.S. EPA on June 7, 2012 and conditionally approved on August 6, 2012. Approximately 167 tons of soil exhibiting a PCB concentration greater than 1 ppm were excavated and disposed off-Site. A Completion Summary Report (CRA, 2013) was prepared and submitted to the U.S. EPA on May 16, 2013 after completion of the activities. Copies of the SIP and Completion Summary Report are presented in Appendix A and B, respectively.

Section 3.0 Additional Site Characterization

3.1 Field Procedures

Additional characterization sampling will be performed to evaluate the potential for off-Site impacts adjacent to the western property line of the Site near the Bulk Unload Area. The approximate locations of the soil borings is presented in Figure 4. Characterization sampling will be conducted utilizing a Geoprobe® direct-push rig, hand auger, manual probe, or similar device. This Plan proposes to modify the delineation approach presented in 40 CFR 761 Subpart N "Cleanup Site Characterization Sampling for PCB Remediation Waste in Accordance with §761.61(a)(2)." The procedures set forth in 40 CFR 761 Subpart N identify the utilization of a 3-meter (10-foot) spacing grid for the collection of characterization samples; this Plan proposes the use of an approximate 6-meter (20-foot) spacing grid for the collection of characterization samples, based on conditions encountered in the field. The rationale behind this modification is that the extent of soil removal associated will ultimately be determined by verification soil sampling, which will be performed in accordance with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces," to the extent necessary to achieve the proposed clean-up goals (see Section 4.0).

Samples will be collected from discrete 2-foot intervals. During collection, field staff will document the horizontal location and depth of each sample collected, characteristics of the soil following the USCS, and evidence of PCB impact, in any. Once collected, all samples will be directly placed in pre-cleaned sample containers, packed in a cooler on ice to maintain a cooler temperature of approximately 4°C, and shipped under chain-of-custody protocol to the subcontracted analytical laboratory. Sample analysis and reporting procedures will be completed in accordance with 40 CFR 761 Subpart N. Non-disposable sampling equipment will properly decontaminated between samples consistent with the self-implementation procedures identified in 40 CFR 761.79(c)(2). Disposal sampling equipment and personal protective equipment (PPE) waste generated during the activities will be containerized in DOT-approved 55-gallon drums and labeled for future characterization and off-Site disposal in accordance with 761.61(a)(5)(v)(A).

3.2 Field Procedures

Soil samples collected from within the proposed excavation areas will be composited in a grid pattern consistent with 40 CFR 761.289(b)(1)(i). All confirmatory sample collection and analyses procedures will be completed in accordance with 40 CFR 761 Subpart O. Should PCBs be detected in verification soil samples above 10 ppm, soil excavation and verification sampling will continue until the 10 ppm cleanup level is obtained and documented.

Section 4.0 Cleanup Plan Approach

4.1 Notification

This document is being submitted to the U.S. EPA, MDEQ, and KCHD consistent with 40 CFR 761.61(a)(3)(i).

A copy of the Notification of PCB Waste Activity Former (EPA Form 7710-53) was completed and submitted to the U.S. EPA for the Site consistent with 40 CFR 761.205 in 1990. A copy of the EPA Form 7710-53 and subsequent correspondence is presented in Appendix D.

4.2 Health and Safety

A Site-specific Health and Safety Plan (HASP) has been prepared consistent with 29 CFR 1910.120 for completion of the investigation and cleanup activities at the Site. As identified in the HASP, a Site health and safety officer will complete a hazard analysis for all activities. The hazard analysis will identify the potential hazards, evaluate the level of personal protective equipment that will be used during the investigation and remediation activities, and describe the decontamination procedures required to control any potential personal exposures during implementation of the cleanup plan. All work will be conducted by trained personnel, in accordance with the HASP.

4.3 Mobilization Activities

The following activities will be completed in conjunction with mobilization:

- The soil removal boundaries will be demarcated by a surveyor
- Any underground utilities in the area will be identified through a private utility locate and marked
- Exclusion zones in which the excavation activities will occur will be taped or fenced off, as necessary

4.4 Cleanup Plan

The overall cleanup objective for the former Tar House and Bulk Unload Areas is to excavate and properly dispose of impacted soils containing concentrations of PCBs greater than 10 ppm. The cleanup objective for the off-Site area, if determined to be impacted, will be provided in a supplemental document to this Plan, upon discussions with the property owner.

4.4.1 Soil Excavation and Backfilling

Based on the pre-cleanup characterization results, soil materials within the boundaries of the delineation to less than 10 ppm will be removed via excavation for off-Site disposal, as discussed below by area.

4.4.1.1 Former Tar House Area

Soils will be removed to approximately 4 feet bgs . The primary area of excavation will occur near SB165-11 and SB166-11 in order to remove soils with PCB concentrations exceeding 10 ppm. Approximately 100 cubic yards of soil is anticipated to be removed from the former Tar House Area for off-Site disposal. Following excavation, the area will be backfilled with clean fill material and topped with 6 inches of gravel. Figure 5 presents the approximate excavation area.

4.4.1.2 Bulk Unload Area

Soils will be removed to approximately 4 feet bgs. The primary area of excavation will include soils and concrete/asphalt present to the west of soil borings SB277-13, SB111-11, SB110-11, SB109-11, and SB151-11; to the south of SB232-13; and to the north of SB212-12. Soil and concrete/asphalt will be removed until reaching the fence along the property boundary. Approximately 132 cubic yards of soil is anticipated to be removed from the Bulk Unload Area for off-Site disposal. Following excavation, the area will be backfilled with clean fill material and topped with 6 inches of gravel. Figure 6 presents the approximate excavation area.

4.4.2 Verification Sampling

No deviations are proposed from 40 CFR 761(a).

Soil samples collected from within the proposed excavation areas will be composited in a grid pattern consistent with 40 CFR 761.289(b)(1)(i). All confirmatory sample collection and analyses procedures will be completed in accordance with 40 CFR 761 Subpart O. Should PCBs be detected in verification soil samples above 10 ppm, soil excavation and verification sampling will continue until the 10 ppm cleanup level is obtained and documented.

4.4.3 Cleanup Levels and Future Use

As noted, the Site is restricted to industrial uses and the property is secure. The areas where PCBs were identified to be present at concentrations above the High Occupancy Cleanup Level of 1 ppm for bulk remediation waste (without further conditions) will be restricted to use for

Low Occupancy as defined under 40 CFR 761. However, a cleanup level of 10 ppm is proposed, with concentrations of PCBs in soil remaining at concentrations greater than 1 ppm but less than or equal to 10 ppm in the event future Site occupants want to meet conditions in 40 CFR 761 that would allow for High Occupancy use of these areas. These areas with delineated residual contamination at the concentrations identified above will have a deed restriction meeting the requirements of 40 CFR 761.61(a)(8), which will allow for use of the property for those uses and exposures that would meet the definition of a Low Occupancy Area.

4.4.4 Excavation Survey

Following excavation and prior to backfilling, the horizontal and vertical extent of each excavation will be surveyed to document the extent of the remedial activities. Prior to backfilling, a demarcation layer will be placed.

4.4.5 Decontamination

Equipment such as the excavator bucket and non-disposal sampling tools that may have or may have contacted PCB-impacted material will be decontaminated consistent with the self-implementing procedures in 40 CFR 761.79(c)(2).

4.4.6 Transportation and Off-Site Disposal

Based on the pre-cleanup characterization, all materials have a PCB concentration of less than 50 ppm. Consistent with 40 CFR 761.61(a)(5)(i)(B)(2)(ii), soil with PCB concentrations less than 50 ppm will be disposed of at Waste Management's Autumn Hills Landfill in Zeeland, Michigan. Non-liquid cleaning materials (e.g. rags) and personal protective equipment (PPE) generated during the implementation of the cleanup plan will also be disposed of at Autumn Hills Landfill consistent with 40 CFR 761.61(a)(5)(v). Concrete or asphalt present above the soils to be removed will be disposed of in conjunction with the excavated soils. Manifests will be prepared and will accompany the loads in accordance with 40 CFR 761 Subpart K.

4.5 Deed Restrictions

Deed restrictions will be placed on the Site for the Former Tar House and Bulk Unload areas consistent with 40 CFR 761.61(a)(8). Within 60 days of completion of the cleanup (i.e., upon submittal of the final PCB cleanup report), a notation on the deed to the property will be recorded that will provide notification to any potential purchaser of the property that the property has been used for PCB remediation waste disposal and of the use restrictions that are in place. The deed restriction will also identify the specific remaining PCB concentrations. The proposed deed restriction areas are presented on Figures 5 and 6 for the Former Tar House and

Bulk Unload Areas, respectively. Consistent with 40 CFR 761.61(a)(8)(i)(B), a certification will be submitted to the U.S. EPA, signed by the property owner, indicating that deed recording has been completed as specified.

4.6 Recordkeeping and Reporting

Records of the implementation of the cleanup plan, including copies of analytical laboratory reports and data validation, will be kept consistent with the below for at least 5 years consistent with 40 CFR 761.61(a)(9). Upon completion of cleanup activities, a report will be provided to the U.S. EPA.

Section 5.0 Certification Statement

Pursuant to 40 CFR 761.61 (a)(3)(i)(E), all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrument/chemical analysis procedures used to assess or characterize the PCB contamination related to the investigation and cleanup activities specified herein will be maintained in the following location and accessible for inspection by U.S. EPA:

- Conestoga-Rovers & Associates, Inc.
  Attn: Jennifer Quigley, P.E.
  200 West Allegan Street, Suite 300
  Plainwell, Michigan 49080-1397

RACER Trust has retained Conestoga-Rovers & Associates, Inc. (CRA). CRA, as the Engineer, represents RACER Trust and will act as the party implementing the cleanup plan in accordance with 40 CFR 761.61.

Barbara VanDuren — 8/26/14
Property Owner's Representative Signature — *Date*

Barbara Van Duren
Property Owner's Representative Printed Name

1155 28th Street SW, Wyoming, MI 49509
Address of Property Owner

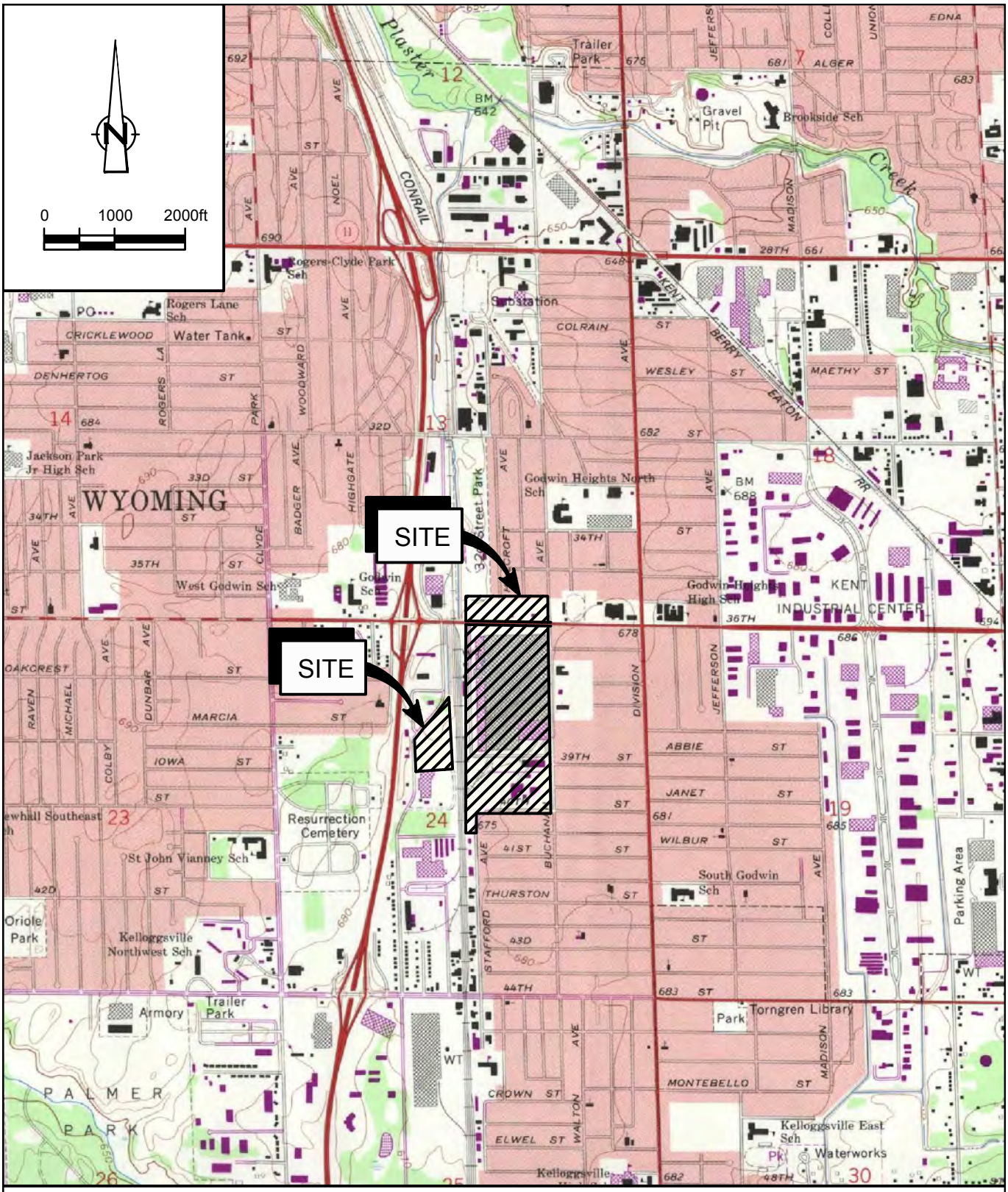
Jeni Quigley FOR DAVE FAVERO — 8/26/14
Cleanup Party's Representative Signature — *Date*

David Favero, Deputy Cleanup Manager
Cleanup Party's Representative Printed Name

500 Woodward Avenue, Suite 1510, Detroit, Michigan 48226
Address of Cleanup Party

Section 6.0 References

- CRA, 2012. Self-Implementing Plan for the Remediation of PCB-Impacted Soils Pursuant to 40 CFR 761.61(a), Former Grand Rapids Metal Plant, 300 36th Street SW, Wyoming, Michigan, CRA, June 2012
- CRA, 2013. Soil Containing PCB Cleanup Completion Summary Report, Former Grand Rapids Metal Plant, 300 36th Street SW, Wyoming, Michigan, CRA, May 2013
- SME, 2011. PCB Remediation Notification and Certification Letter, Former GM Metal Stamping Plant, 300 36th Street SW, Wyoming, Kent County, Michigan 49548, SME, September 19, 2011



SOURCE: USGS QUADRANGLE MAP
GRAND RAPIDS WEST, MICHIGAN

figure 1

GRAND RAPIDS

SITE LOCATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T12(032)GN-DE001 MAR 31/2014

RESIDENTIAL

COMMERCIAL

COMMERCIAL/INDUSTRIAL

COMMERCIAL/RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

BUCHANAN AVENUE

36TH STREET

40TH STREET

STAFFORD AVENUE

CLAY AVE.

FORMER 500,000 GALLON WATER STORAGE TANK

FORMER PUMP HOUSE

FORMER POWER HOUSE

FORMER USED OIL AST

FORMER PRESS STAGING BUILDING

FORMER WWTP

FORMER BALER HOUSE

RAMP

PRIMARY SWITCH HOUSE

GUARD HOUSE

TRUCK SCALE PIT

FORMER MAIN MANUFACTURING BUILDING

FORMER TAR HOUSE PCB AREA

BULK UNLOAD PCB AREA

STORM SEWER PUMP HOUSE

FORMER METAL STORAGE SHED

FORMER RACK MAKE-UP BUILDING

GOODWIN HEIGHTS PUBLIC SCHOOLS ATHLETIC FIELDS

STORM WATER RETENTION BASIN

FORMER EMPLOYEE ENTRANCE BUILDING

PARCEL PURCHASED BY KENDALL ELECTRIC, INC.

SHOEMAKER PROPERTIES, LLC.

S4GR, LLC.

3821 CLAY LLC.

THE MACOMB GROUP

RYDER TRUCK RENTAL

S4GR, LLC. (CUMMINS)

0 100 250ft

LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- DELINEATED AREA OF PCB IMPACTED SOIL EVALUATION
- AREA OF OFF-SITE EVALUATION
- FENCE
- RAILROAD
- COLE DRAIN

figure 2

SITE PLAN AND PCB-IMPACTED AREAS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T12(032)GN-DE002 APR 9/2014

SB255-13	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND/ND	ND	ND	ND

SB256-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND/ND	ND	ND	ND

SB257-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

SB200-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.04 J	0.004 J/0.0045 J	ND

SB201-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.049 J	0.038 J	0.046 J

SB215-12	10/31/2012 (6-8) ft BGS mg/kg	10/31/2012 (8-10) ft BGS mg/kg
PCBs Total PCBs	0.0059 J	0.0068 J

SB202-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.071 J	0.66	0.062 J

SB100-11	3/15/2011 (0.5-2.5) ft BGS mg/kg	3/15/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	3.3 {a}	ND

SB164-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs Total PCBs	0.078/0.14

SB162-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs Total PCBs	0.56

SB223-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.077 J	1.2 {a}	8.2 {a}

SB166-11	9/29/2011 (0-2) ft BGS mg/kg	9/29/2011 (2-4) ft BGS mg/kg	9/29/2011 (4-6) ft BGS mg/kg
PCBs Total PCBs	12 {ab}	6.4 {a}	ND

SB163-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs Total PCBs	ND

SB224-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	0.37	1.1 {a}

SB262-13	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND/ND	ND	ND

SB258-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.062 J	ND	0.038 J	ND	ND/ND	ND

SB165-11	9/29/2011 (0-2) ft BGS mg/kg	9/29/2011 (2-4) ft BGS mg/kg	9/29/2011 (4-6) ft BGS mg/kg
PCBs Total PCBs	3 {a}	13 {ab}	3.8 {a}

SB206-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.033 J	0.028 J	0.038 J

SB225-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	ND	ND	0.16 J	0.39/0.44	0.41	1.7 {a}

SB205-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.076 J	0.063 J	0.06 J

SB204-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs Total PCBs	0.68	0.88	0.15 J

SB229-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.58	ND	0.21 J

SB226-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.075 J	0.14 J	0.39	1.1 {a}	ND	ND

SB261-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND	ND	ND

SB230-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.94	ND

SB260-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

SB228-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.58	2.3 {a}	ND	ND	ND	ND/ND

SB227-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs Total PCBs	0.42	0.6	1.5 {a}	3 {a}	2.7 {a}	ND

SB203-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg	10/31/2012 (8-10) ft BGS mg/kg
PCBs Total PCBs	0.24 J/0.25 J	0.38	0.19 J	1.3 {a}

SB259-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs Total PCBs	ND	ND/ND	ND	ND	ND	ND	ND

ZC

AOI 24

STORM SEWER PUMP HOUSE

SB255-13, SB256-13, SB257-13, SB200-12, SB201-12, SB215-12, SB202-12, SB100-11, SB164-11, SB162-11, SB223-13, SB166-11, SB163-11, SB224-13, SB262-13, SB258-13, SB165-11, SB215-12, SB206-12, SB202-12, SB223-13, SB224-13, SB205-12, SB204-12, SB229-13, SB203-12, SB230-13, SB225-13, SB228-13, SB227-13, SB226-13, SB261-13, SB259-13, SB260-13

51

Nº	Revision	Date	Initial

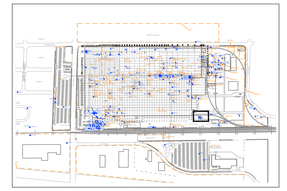
0 5 10ft

LEGEND

- SB261-13 SOIL BORING LOCATIONS
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI

SB203-12	10/31/2012 (0-2) ft BGS	10/31/2012 (2-4) ft BGS	10/31/2012 (4-6) ft BGS	10/31/2012 (8-10) ft BGS
	0' 2'	2' 4'	4' 6'	8' 9'
PCBs Total PCBs	0.24 J/0.25 J	0.38	0.19 J	1.3 {a}

SAMPLE ID
DATE
DEPTH
UNIT
RESULTS
CHEMICAL NAME



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

DELINEATION SAMPLE LOCATIONS
☐ ANALYTICAL RESULTS

FORMER TAR HOUSE

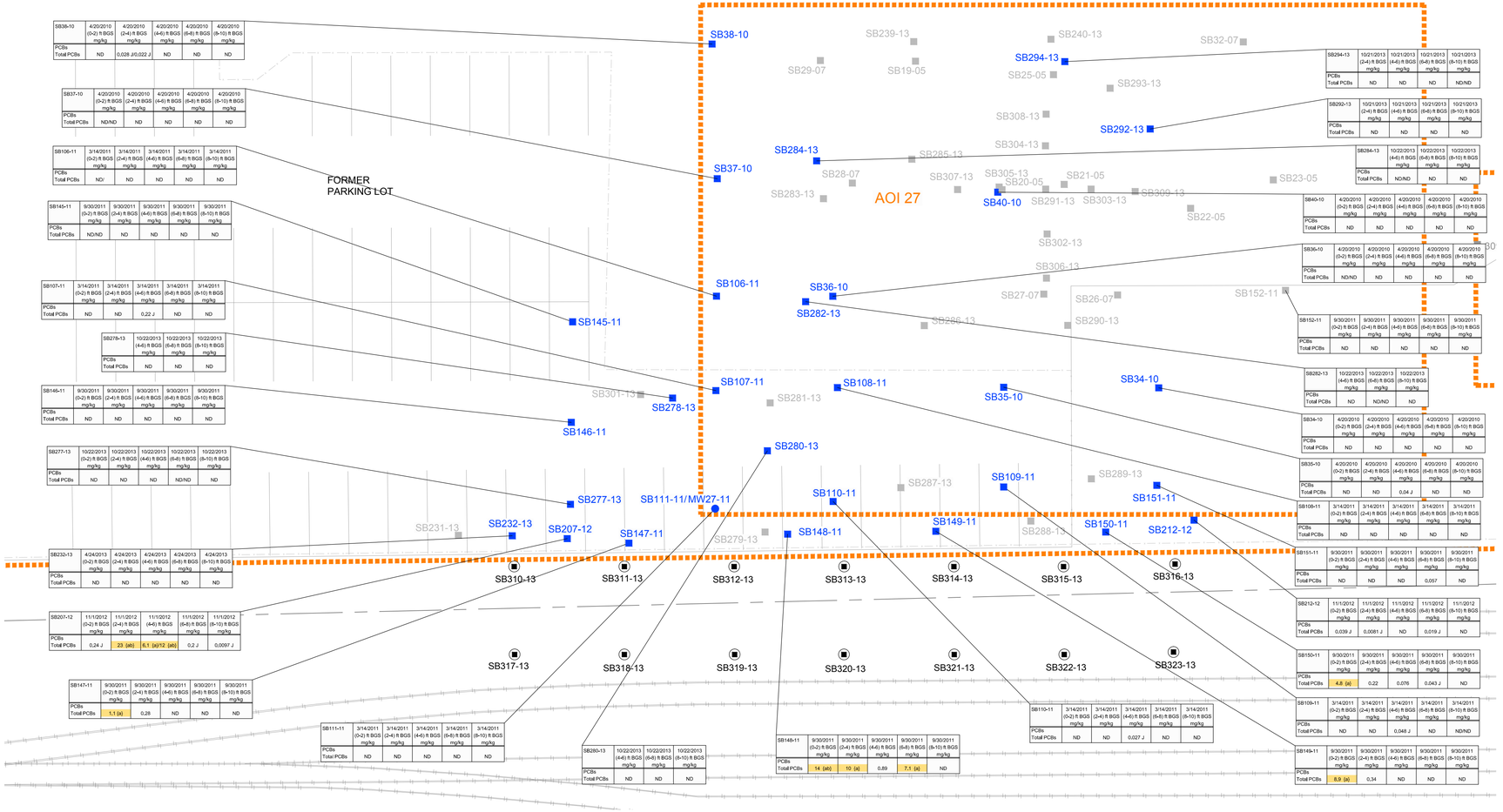
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. Q.	E. B.	MARCH 2014	
Scale: 1:10	Project Nº: 017360-T12	Report Nº: 032	Drawing Nº: Figure 3

017360-T12(032)GN-DE003 MAR 31/2014



SB38-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	0.028 J/0.022 J	ND	ND	ND

SB37-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND/ND	ND	ND	ND	ND

SB106-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND/	ND	ND	ND	ND

SB145-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND/ND	ND	ND	ND	ND

SB107-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	0.22 J	ND	ND

SB278-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND

SB146-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB277-13	10/22/2013 (0-2) ft BGS mg/kg	10/22/2013 (2-4) ft BGS mg/kg	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND/ND	ND

SB230-13	4/24/2013 (0-2) ft BGS mg/kg	4/24/2013 (2-4) ft BGS mg/kg	4/24/2013 (4-6) ft BGS mg/kg	4/24/2013 (6-8) ft BGS mg/kg	4/24/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB207-12	11/1/2012 (0-2) ft BGS mg/kg	11/1/2012 (2-4) ft BGS mg/kg	11/1/2012 (4-6) ft BGS mg/kg	11/1/2012 (6-8) ft BGS mg/kg	11/1/2012 (8-10) ft BGS mg/kg
PCBs Total PCBs	0.24 J	23 (ab)	6.1 (a)/12 (ab)	0.2 J	0.0097 J

SB147-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	1.1 (a)	0.28	ND	ND	ND

SB111-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB280-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND

SB148-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	14 (ab)	10 (a)	0.89	7.1 (a)	ND

SB110-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	0.027 J	ND	ND

SB294-13	10/21/2013 (2-4) ft BGS mg/kg	10/21/2013 (4-6) ft BGS mg/kg	10/21/2013 (6-8) ft BGS mg/kg	10/21/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND/ND

SB292-13	10/21/2013 (2-4) ft BGS mg/kg	10/21/2013 (4-6) ft BGS mg/kg	10/21/2013 (6-8) ft BGS mg/kg	10/21/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND

SB284-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND/ND	ND	ND

SB40-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB36-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND/ND	ND	ND	ND	ND

SB152-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB282-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND/ND	ND

SB34-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB35-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	0.04 J	ND	ND

SB108-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	ND	ND

SB151-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	ND	0.057	ND

SB212-12	11/1/2012 (0-2) ft BGS mg/kg	11/1/2012 (2-4) ft BGS mg/kg	11/1/2012 (4-6) ft BGS mg/kg	11/1/2012 (6-8) ft BGS mg/kg	11/1/2012 (8-10) ft BGS mg/kg
PCBs Total PCBs	0.039 J	0.0081 J	ND	0.019 J	ND

SB150-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	4.8 (a)	0.22	0.076	0.043 J	ND

SB109-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	ND	ND	0.048 J	ND	ND/ND

SB149-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs Total PCBs	8.9 (a)	0.34	ND	ND	ND

Nº	Revision	Date	Initial

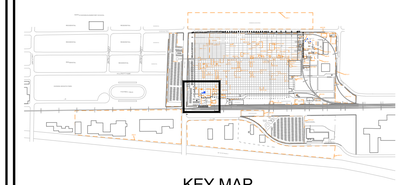
0 15ft

LEGEND

- SB380-13 PROPOSED OFF-SITE SOIL BORING LOCATION
- SB295-13 SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI

SB148-11	9/30/2011 (0-2) ft BGS g/g	9/30/2011 (2-4) ft BGS g/g	9/30/2011 (4-6) ft BGS g/g	9/30/2011 (6-8) ft BGS g/g	9/30/2011 (8-10) ft BGS g/g
PCBs Total PCBs	14 a	10 a	0.89	7.1 a	ND

SAMPLE ID
DATE
DEPTH
UNIT
RESULTS
CHEMICAL NAME



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

DELINEATION SAMPLE LOCATIONS
□ ANALYTICAL RESULTS

BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	MARCH 2014	
Scale: 1:15	Project Nº: 017360-T12	Report Nº: 032	Drawing Nº: Figure 4

SB255-13	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs							
Total PCBs	ND	ND	ND	ND/ND	ND	ND	ND

SB256-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg	8/19/2013 (14-16) ft BGS mg/kg
PCBs								
Total PCBs	ND	ND	ND	ND	ND/ND	ND	ND	ND

SB257-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

SB200-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.04 J	0.004 J/0.0045 J	ND

SB201-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.049 J	0.038 J	0.046 J

SB215-12	10/31/2012 (6-8) ft BGS mg/kg	10/31/2012 (8-10) ft BGS mg/kg
PCBs		
Total PCBs	0.0059 J	0.0068 J

SB202-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.071 J	0.66	0.062 J

SB100-11	3/15/2011 (0.5-2.5) ft BGS mg/kg	3/15/2011 (8-10) ft BGS mg/kg
PCBs		
Total PCBs	3.3 {a}	ND

SB164-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Total PCBs	0.078/0.14

SB162-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Total PCBs	0.56

SB166-11	9/29/2011 (0-2) ft BGS mg/kg	9/29/2011 (2-4) ft BGS mg/kg	9/29/2011 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	12 {ab}	6.4 {a}	ND

SB223-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs			
Total PCBs	0.077 J	1.2 {a}	8.2 {a}

SB163-11	9/29/2011 (0-2) ft BGS mg/kg
PCBs	
Total PCBs	ND

SB262-13	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs						
Total PCBs	ND	ND	ND	ND/ND	ND	ND

SB224-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	ND	ND	ND	ND	0.37	1.1 {a}

SB165-11	9/29/2011 (0-2) ft BGS mg/kg	9/29/2011 (2-4) ft BGS mg/kg	9/29/2011 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	3 {a}	13 {ab}	3.8 {a}

SB258-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	0.062 J	ND	0.038 J	ND	ND/ND	ND

SB206-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.033 J	0.028 J	0.038 J

SB225-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	ND	ND	0.16 J	0.39/0.44	0.41	1.7 {a}

SB205-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.076 J	0.063 J	0.06 J

SB204-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg
PCBs			
Total PCBs	0.68	0.88	0.15 J

SB229-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs			
Total PCBs	0.58	ND	0.21 J

SB226-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	0.075 J	0.14 J	0.39	1.1 {a}	ND	ND

SB261-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Total PCBs	ND	ND	ND	ND	ND	ND	ND

SB260-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Total PCBs	ND	ND	ND/ND	ND	ND	ND	ND

SB228-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	0.58	2.3 {a}	ND	ND	ND	ND/ND

SB230-13	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs		
Total PCBs	0.94	ND

SB227-13	4/23/2013 (0-2) ft BGS mg/kg	4/23/2013 (2-4) ft BGS mg/kg	4/23/2013 (4-6) ft BGS mg/kg	4/23/2013 (6-8) ft BGS mg/kg	4/23/2013 (8-10) ft BGS mg/kg	4/23/2013 (10-12) ft BGS mg/kg
PCBs						
Total PCBs	0.42	0.6	1.5 {a}	3 {a}	2.7 {a}	ND

SB203-12	10/31/2012 (0-2) ft BGS mg/kg	10/31/2012 (2-4) ft BGS mg/kg	10/31/2012 (4-6) ft BGS mg/kg	10/31/2012 (8-10) ft BGS mg/kg
PCBs				
Total PCBs	0.24 J/0.25 J	0.38	0.19 J	1.3 {a}

SB259-13	8/19/2013 (0-2) ft BGS mg/kg	8/19/2013 (2-4) ft BGS mg/kg	8/19/2013 (4-6) ft BGS mg/kg	8/19/2013 (6-8) ft BGS mg/kg	8/19/2013 (8-10) ft BGS mg/kg	8/19/2013 (10-12) ft BGS mg/kg	8/19/2013 (12-14) ft BGS mg/kg
PCBs							
Total PCBs	ND	ND/ND	ND	ND	ND	ND	ND

SB255-13 SB256-13 SB257-13 SB201-12 SB164-11 SB200-12 SB100-11 SB163-11 SB166-11 SB162-11 SB262-13 SB165-11 SB215-12 SB202-12 SB223-13 SB224-13 SB258-13 SB206-12 SB205-12 SB204-12 SB229-13 SB203-12 SB230-13 SB225-13 SB228-13 SB227-13 SB226-13 SB261-13 SB259-13 SB260-13

ZC

AOI 24

STORM SEWER PUMP HOUSE

51

No	Revision	Date	Initial

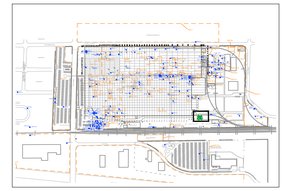
0 5 10ft

LEGEND

- SB261-13 SOIL BORING LOCATIONS
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI
- APPROXIMATE EXCAVATION AREA
- APPROXIMATE DEED RESTRICTION AREA

SB203-12	10/31/2012 (0-2) ft BGS	10/31/2012 (2-4) ft BGS	10/31/2012 (4-6) ft BGS	10/31/2012 (8-10) ft BGS
	9' 9	9' 9	9' 9	9' 9
PCBs				
Total PCBs	0.24 J/0.25 J	0.38	0.19 J	1.3 ★

SAMPLE ID
DATE
DEPTH
UNIT
RESULTS
CHEMICAL NAME



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

APPROXIMATE EXCAVATION AND DEED RESTRICTION AREAS

FORMER TAR HOUSE

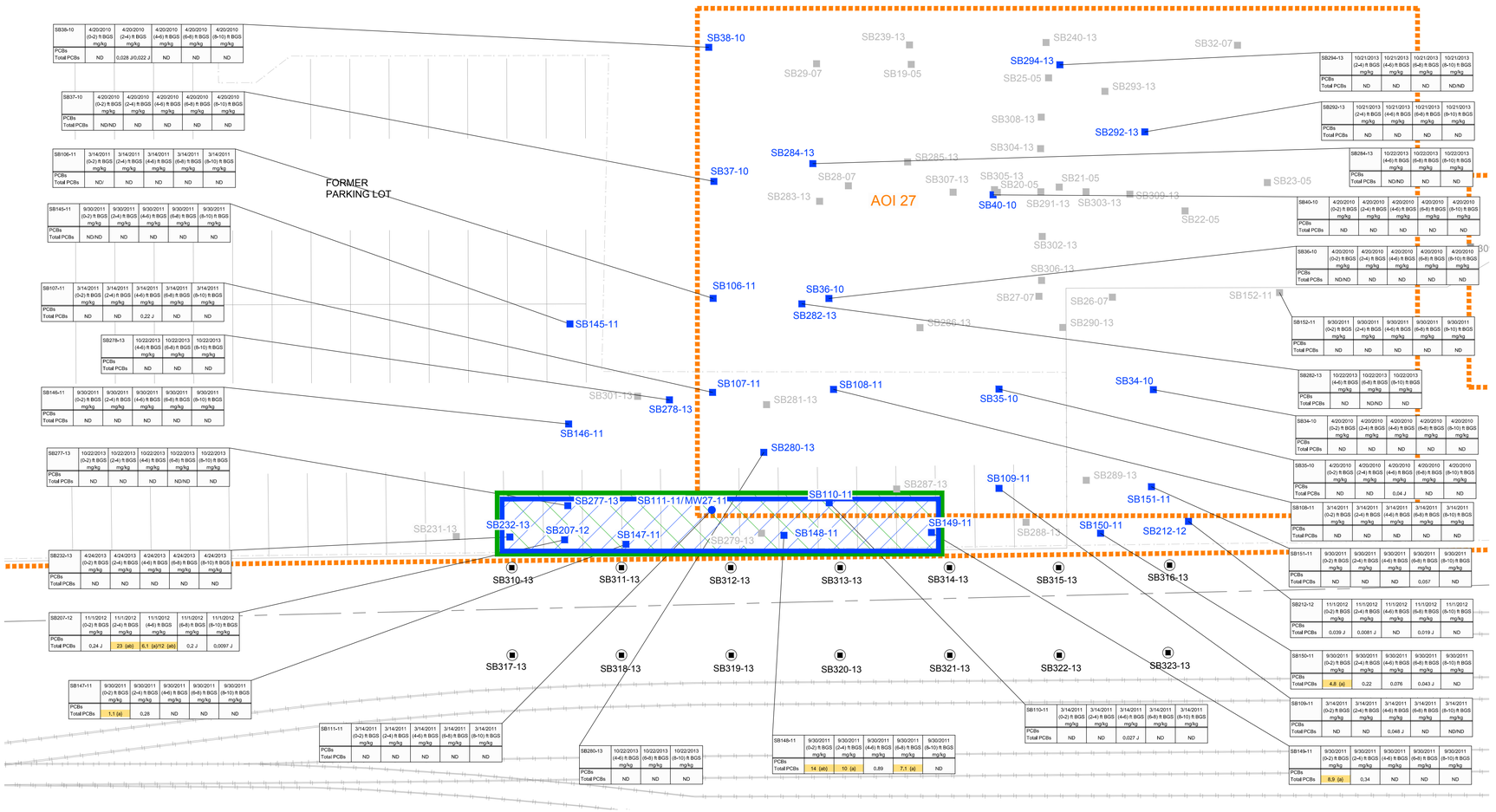
FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. Q.	E. B.	APRIL 2014	
Scale: 1:10	Project No: 017360-T12	Report No: 032	Drawing No: Figure 5

017360-T12(032)GN-DE005 APR 9/2014



SB38-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	0.028 J/0.022 J	ND	ND	ND

SB37-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND/ND	ND	ND	ND	ND

SB106-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND/	ND	ND	ND	ND

SB145-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND/ND	ND	ND	ND	ND

SB107-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	0.22 J	ND	ND

SB278-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs			
Total PCBs	ND	ND	ND

SB146-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB277-13	10/22/2013 (0-2) ft BGS mg/kg	10/22/2013 (2-4) ft BGS mg/kg	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND/ND	ND

SB232-13	4/24/2013 (0-2) ft BGS mg/kg	4/24/2013 (2-4) ft BGS mg/kg	4/24/2013 (4-6) ft BGS mg/kg	4/24/2013 (6-8) ft BGS mg/kg	4/24/2013 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB207-12	11/1/2012 (0-2) ft BGS mg/kg	11/1/2012 (2-4) ft BGS mg/kg	11/1/2012 (4-6) ft BGS mg/kg	11/1/2012 (6-8) ft BGS mg/kg	11/1/2012 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	0.24 J	23 (ab)	6.1 (a)/12 (ab)	0.2 J	0.0097 J

SB147-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	1.1 (a)	0.28	ND	ND	ND

SB111-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB280-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs			
Total PCBs	ND	ND	ND

SB148-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	14 (ab)	10 (a)	0.89	7.1 (a)	ND

SB110-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	0.027 J	ND	ND

SB294-13	10/21/2013 (2-4) ft BGS mg/kg	10/21/2013 (4-6) ft BGS mg/kg	10/21/2013 (6-8) ft BGS mg/kg	10/21/2013 (8-10) ft BGS mg/kg
PCBs				
Total PCBs	ND	ND	ND	ND/ND

SB292-13	10/21/2013 (2-4) ft BGS mg/kg	10/21/2013 (4-6) ft BGS mg/kg	10/21/2013 (6-8) ft BGS mg/kg	10/21/2013 (8-10) ft BGS mg/kg
PCBs				
Total PCBs	ND	ND	ND	ND

SB284-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs			
Total PCBs	ND/ND	ND	ND

SB40-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB36-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND/ND	ND	ND	ND	ND

SB152-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB282-13	10/22/2013 (4-6) ft BGS mg/kg	10/22/2013 (6-8) ft BGS mg/kg	10/22/2013 (8-10) ft BGS mg/kg
PCBs			
Total PCBs	ND	ND/ND	ND

SB34-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB35-10	4/20/2010 (0-2) ft BGS mg/kg	4/20/2010 (2-4) ft BGS mg/kg	4/20/2010 (4-6) ft BGS mg/kg	4/20/2010 (6-8) ft BGS mg/kg	4/20/2010 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	0.04 J	ND	ND

SB108-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	ND	ND

SB151-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	ND	0.057	ND

SB212-12	11/1/2012 (0-2) ft BGS mg/kg	11/1/2012 (2-4) ft BGS mg/kg	11/1/2012 (4-6) ft BGS mg/kg	11/1/2012 (6-8) ft BGS mg/kg	11/1/2012 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	0.039 J	0.0081 J	ND	0.019 J	ND

SB150-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	4.8 (a)	0.22	0.076	0.043 J	ND

SB109-11	3/14/2011 (0-2) ft BGS mg/kg	3/14/2011 (2-4) ft BGS mg/kg	3/14/2011 (4-6) ft BGS mg/kg	3/14/2011 (6-8) ft BGS mg/kg	3/14/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	ND	ND	0.048 J	ND	ND/ND

SB149-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	8.9 (a)	0.34	ND	ND	ND

Nº	Revision	Date	Initial

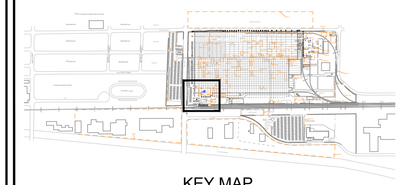
0 15ft

LEGEND

- SB380-13 PROPOSED OFF-SITE SOIL BORING LOCATION
- SB295-13 SOIL BORING LOCATIONS
- TW20-2 HISTORICAL SAMPLE LOCATION
- MW6-03 HISTORICAL MONITORING WELL LOCATION
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI
- APPROXIMATE EXCAVATION AREA
- APPROXIMATE DEED RESTRICTION AREA

SB148-11	9/30/2011 (0-2) ft BGS mg/kg	9/30/2011 (2-4) ft BGS mg/kg	9/30/2011 (4-6) ft BGS mg/kg	9/30/2011 (6-8) ft BGS mg/kg	9/30/2011 (8-10) ft BGS mg/kg
PCBs					
Total PCBs	14 (a)	10 (a)	0.89	7.1 (a)	ND

SAMPLE ID
DATE
DEPTH
UNIT
RESULTS
CHEMICAL NAME



KEY MAP

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

APPROXIMATE EXCAVATION AND DEED RESTRICTION AREAS

BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	APRIL 2014	
Scale: 1:15	Project Nº: 017360-T12	Report Nº: 032	Drawing Nº: Figure 6

017360-T12(032)GN-DE006 APR 9/2014

TABLE 1

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
4/20/2010	SO-17360-4/20/10-DR-037	SB34-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-038	SB34-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-039	SB34-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-040	SB34-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-041	SB34-10	Soil	8-10	
4/20/2010	SO-17360-4/20/10-DR-032	SB35-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-033	SB35-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-034	SB35-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-035	SB35-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-036	SB35-10	Soil	8-10	
4/20/2010	SO-17360-4/20/10-DR-021	SB36-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-022	SB36-10	Soil	0-2	Duplicate
4/20/2010	SO-17360-4/20/10-DR-023	SB36-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-024	SB36-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-025	SB36-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-026	SB36-10	Soil	8-10	
4/20/2010	SO-17360-4/20/10-DR-015	SB37-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-016	SB37-10	Soil	0-2	Duplicate
4/20/2010	SO-17360-4/20/10-DR-017	SB37-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-018	SB37-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-019	SB37-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-020	SB37-10	Soil	8-10	
4/20/2010	SO-17360-4/20/10-DR-009	SB38-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-010	SB38-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-011	SB38-10	Soil	2-4	Duplicate
4/20/2010	SO-17360-4/20/10-DR-012	SB38-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-013	SB38-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-014	SB38-10	Soil	8-10	
4/20/2010	SO-17360-4/20/10-DR-027	SB40-10	Soil	0-2	
4/20/2010	SO-17360-4/20/10-DR-028	SB40-10	Soil	2-4	
4/20/2010	SO-17360-4/20/10-DR-029	SB40-10	Soil	4-6	
4/20/2010	SO-17360-4/20/10-DR-030	SB40-10	Soil	6-8	
4/20/2010	SO-17360-4/20/10-DR-031	SB40-10	Soil	8-10	
3/14/2011	SO-17360-031411-DR-211	SB106-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-212	SB106-11	Soil	0-2	Duplicate
3/14/2011	SO-17360-031411-DR-213	SB106-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-214	SB106-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-215	SB106-11	Soil	6-8	
3/14/2011	SO-17360-031411-DR-216	SB106-11	Soil	8-10	
3/14/2011	SO-17360-031411-DR-217	SB107-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-218	SB107-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-219	SB107-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-220	SB107-11	Soil	6-8	
3/14/2011	SO-17360-031411-DR-221	SB107-11	Soil	8-10	
3/14/2011	SO-17360-031411-DR-222	SB108-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-223	SB108-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-224	SB108-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-225	SB108-11	Soil	6-8	

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
3/14/2011	SO-17360-031411-DR-226	SB108-11	Soil	8-10	
3/14/2011	SO-17360-031411-DR-227	SB109-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-228	SB109-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-229	SB109-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-230	SB109-11	Soil	6-8	
3/14/2011	SO-17360-031411-DR-231	SB109-11	Soil	8-10	
3/14/2011	SO-17360-031411-DR-232	SB109-11	Soil	8-10	Duplicate
3/14/2011	SO-17360-031411-DR-233	SB110-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-234	SB110-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-235	SB110-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-236	SB110-11	Soil	6-8	
3/14/2011	SO-17360-031411-DR-237	SB110-11	Soil	8-10	
3/14/2011	SO-17360-031411-DR-238	SB111-11	Soil	0-2	
3/14/2011	SO-17360-031411-DR-239	SB111-11	Soil	2-4	
3/14/2011	SO-17360-031411-DR-240	SB111-11	Soil	4-6	
3/14/2011	SO-17360-031411-DR-241	SB111-11	Soil	6-8	
3/14/2011	SO-17360-031411-DR-242	SB111-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-151	SB145-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-152	SB145-11	Soil	0-2	Duplicate
9/30/2011	S-17360-093011-EM-153	SB145-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-154	SB145-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-155	SB145-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-156	SB145-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-146	SB146-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-147	SB146-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-148	SB146-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-149	SB146-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-150	SB146-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-141	SB147-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-142	SB147-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-143	SB147-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-144	SB147-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-145	SB147-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-136	SB148-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-137	SB148-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-138	SB148-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-139	SB148-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-140	SB148-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-131	SB149-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-132	SB149-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-133	SB149-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-134	SB149-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-135	SB149-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-126	SB150-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-127	SB150-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-128	SB150-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-129	SB150-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-130	SB150-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-121	SB151-11	Soil	0-2	

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
9/30/2011	S-17360-093011-EM-122	SB151-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-123	SB151-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-124	SB151-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-125	SB151-11	Soil	8-10	
9/30/2011	S-17360-093011-EM-116	SB152-11	Soil	0-2	
9/30/2011	S-17360-093011-EM-117	SB152-11	Soil	2-4	
9/30/2011	S-17360-093011-EM-118	SB152-11	Soil	4-6	
9/30/2011	S-17360-093011-EM-119	SB152-11	Soil	6-8	
9/30/2011	S-17360-093011-EM-120	SB152-11	Soil	8-10	
11/1/2012	S-17360-110112-DD-185	SB207-12	Soil	0-2	
11/1/2012	S-17360-110112-DD-186	SB207-12	Soil	2-4	
11/1/2012	S-17360-110112-DD-187	SB207-12	Soil	4-6	
11/1/2012	S-17360-110112-DD-188	SB207-12	Soil	4-6	Duplicate
11/1/2012	S-17360-110112-DD-189	SB207-12	Soil	6-8	
11/1/2012	S-17360-110112-DD-190	SB207-12	Soil	8-10	
11/1/2012	S-17360-110112-DD-191	SB212-12	Soil	0-2	
11/1/2012	S-17360-110112-DD-192	SB212-12	Soil	2-4	
11/1/2012	S-17360-110112-DD-193	SB212-12	Soil	4-6	
11/1/2012	S-17360-110112-DD-194	SB212-12	Soil	6-8	
11/1/2012	S-17360-110112-DD-195	SB212-12	Soil	8-10	
4/24/2013	SO-17360-042413-DR-050	SB232-13	Soil	0-2	
4/24/2013	SO-17360-042413-DR-051	SB232-13	Soil	2-4	
4/24/2013	SO-17360-042413-DR-052	SB232-13	Soil	4-6	
4/24/2013	SO-17360-042413-DR-053	SB232-13	Soil	6-8	
4/24/2013	SO-17360-042413-DR-054	SB232-13	Soil	8-10	
10/22/2013	SO-017360-102213-MR-040	SB277-13	Soil	0-2	
10/22/2013	SO-017360-102213-MR-041	SB277-13	Soil	2-4	
10/22/2013	SO-017360-102213-MR-042	SB277-13	Soil	4-6	
10/22/2013	SO-017360-102213-MR-043	SB277-13	Soil	6-8	
10/22/2013	SO-017360-102213-MR-044	SB277-13	Soil	6-8	Duplicate
10/22/2013	SO-017360-102213-MR-047	SB278-13	Soil	4-6	
10/22/2013	SO-017360-102213-MR-048	SB278-13	Soil	6-8	
10/22/2013	SO-017360-102213-MR-049	SB278-13	Soil	8-10	
10/22/2013	SO-017360-102213-MR-051	SB280-13	Soil	4-6	
10/22/2013	SO-017360-102213-MR-052	SB280-13	Soil	6-8	
10/22/2013	SO-017360-102213-MR-053	SB280-13	Soil	8-10	
10/22/2013	SO-017360-102213-MR-036	SB282-13	Soil	4-6	
10/22/2013	SO-017360-102213-MR-037	SB282-13	Soil	6-8	
10/22/2013	SO-017360-102213-MR-038	SB282-13	Soil	6-8	Duplicate
10/22/2013	SO-017360-102213-MR-039	SB282-13	Soil	8-10	
10/22/2013	SO-017360-102213-MR-030	SB284-13	Soil	4-6	
10/22/2013	SO-017360-102213-MR-031	SB284-13	Soil	4-6	Duplicate
10/22/2013	SO-017360-102213-MR-032	SB284-13	Soil	6-8	
10/22/2013	SO-017360-102213-MR-033	SB284-13	Soil	8-10	
10/21/2013	SO-017360-102113-MR-018	SB292-13	Soil	2-4	
10/21/2013	SO-017360-102113-MR-019	SB292-13	Soil	4-6	
10/21/2013	SO-017360-102113-MR-020	SB292-13	Soil	6-8	
10/21/2013	SO-017360-102113-MR-021	SB292-13	Soil	8-10	
10/21/2013	SO-017360-102113-MR-023	SB294-13	Soil	2-4	

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
10/21/2013	SO-017360-102113-MR-024	SB294-13	Soil	4-6	
10/21/2013	SO-017360-102113-MR-025	SB294-13	Soil	6-8	
10/21/2013	SO-017360-102113-MR-026	SB294-13	Soil	8-10	
10/21/2013	SO-017360-102113-MR-027	SB294-13	Soil	8-10	Duplicate
3/15/2011	SO-17360-031511-DR-243	SB100-11	Soil	0.5-2.5	
3/15/2011	SO-17360-031511-DR-244	SB100-11	Soil	8-10	
9/29/2011	S-17360-092911-EM-082	SB162-11	Soil	0-2	
9/29/2011	S-17360-092911-EM-071	SB163-11	Soil	0-2	
9/29/2011	S-17360-092911-EM-076	SB164-11	Soil	0-2	
9/29/2011	S-17360-092911-EM-077	SB164-11	Soil	0-2	Duplicate
9/29/2011	S-17360-092911-EM-092	SB165-11	Soil	0-2	
9/29/2011	S-17360-092911-EM-093	SB165-11	Soil	2-4	
9/29/2011	S-17360-092911-EM-094	SB165-11	Soil	4-6	
9/29/2011	S-17360-092911-EM-087	SB166-11	Soil	0-2	
9/29/2011	S-17360-092911-EM-088	SB166-11	Soil	2-4	
9/29/2011	S-17360-092911-EM-089	SB166-11	Soil	4-6	
10/31/2012	SO-17360-103112-EB-158	SB200-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-159	SB200-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-160	SB200-12	Soil	2-4	Duplicate
10/31/2012	SO-17360-103112-EB-161	SB200-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-164	SB201-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-165	SB201-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-166	SB201-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-150	SB202-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-151	SB202-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-152	SB202-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-144	SB203-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-145	SB203-12	Soil	0-2	Duplicate
10/31/2012	SO-17360-103112-EB-146	SB203-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-147	SB203-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-149	SB203-12	Soil	8-10	
10/31/2012	SO-17360-103112-EB-139	SB204-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-140	SB204-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-141	SB204-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-134	SB205-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-135	SB205-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-136	SB205-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-129	SB206-12	Soil	0-2	
10/31/2012	SO-17360-103112-EB-130	SB206-12	Soil	2-4	
10/31/2012	SO-17360-103112-EB-131	SB206-12	Soil	4-6	
10/31/2012	SO-17360-103112-EB-156	SB215-12	Soil	6-8	
10/31/2012	SO-17360-103112-EB-157	SB215-12	Soil	8-10	
4/23/2013	SO-17360-042313-DR-003	SB223-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-004	SB223-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-005	SB223-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-006	SB224-13	Soil	0-2	
4/23/2013	SO-17360-042313-DR-007	SB224-13	Soil	2-4	
4/23/2013	SO-17360-042313-DR-008	SB224-13	Soil	4-6	
4/23/2013	SO-17360-042313-DR-009	SB224-13	Soil	6-8	

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
4/23/2013	SO-17360-042313-DR-010	SB224-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-011	SB224-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-012	SB225-13	Soil	0-2	
4/23/2013	SO-17360-042313-DR-013	SB225-13	Soil	2-4	
4/23/2013	SO-17360-042313-DR-014	SB225-13	Soil	4-6	
4/23/2013	SO-17360-042313-DR-015	SB225-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-016	SB225-13	Soil	6-8	Duplicate
4/23/2013	SO-17360-042313-DR-017	SB225-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-018	SB225-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-019	SB226-13	Soil	0-2	
4/23/2013	SO-17360-042313-DR-020	SB226-13	Soil	2-4	
4/23/2013	SO-17360-042313-DR-021	SB226-13	Soil	4-6	
4/23/2013	SO-17360-042313-DR-022	SB226-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-023	SB226-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-024	SB226-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-025	SB227-13	Soil	0-2	
4/23/2013	SO-17360-042313-DR-026	SB227-13	Soil	2-4	
4/23/2013	SO-17360-042313-DR-027	SB227-13	Soil	4-6	
4/23/2013	SO-17360-042313-DR-028	SB227-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-029	SB227-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-030	SB227-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-031	SB228-13	Soil	0-2	
4/23/2013	SO-17360-042313-DR-032	SB228-13	Soil	2-4	
4/23/2013	SO-17360-042313-DR-033	SB228-13	Soil	4-6	
4/23/2013	SO-17360-042313-DR-034	SB228-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-035	SB228-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-036	SB228-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-037	SB228-13	Soil	10-12	Duplicate
4/23/2013	SO-17360-042313-DR-038	SB229-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-039	SB229-13	Soil	8-10	
4/23/2013	SO-17360-042313-DR-040	SB229-13	Soil	10-12	
4/23/2013	SO-17360-042313-DR-041	SB230-13	Soil	6-8	
4/23/2013	SO-17360-042313-DR-042	SB230-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-010	SB255-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-011	SB255-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-012	SB255-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-013	SB255-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-018	SB255-13	Soil	8-10	Duplicate
8/19/2013	SO-017360-081913-MR-014	SB255-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-015	SB255-13	Soil	12-14	
8/19/2013	SO-017360-081913-MR-016	SB255-13	Soil	14-16	
8/19/2013	SO-017360-081913-MR-001	SB256-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-002	SB256-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-003	SB256-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-004	SB256-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-005	SB256-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-009	SB256-13	Soil	8-10	Duplicate
8/19/2013	SO-017360-081913-MR-006	SB256-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-007	SB256-13	Soil	12-14	

SAMPLE SUMMARY
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QA/QC Sample*
8/19/2013	SO-017360-081913-MR-008	SB256-13	Soil	14-16	
8/19/2013	SO-017360-081913-MR-058	SB257-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-059	SB257-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-060	SB257-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-061	SB257-13	Soil	4-6	Duplicate
8/19/2013	SO-017360-081913-MR-062	SB257-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-064	SB257-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-065	SB257-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-066	SB257-13	Soil	12-14	
8/19/2013	SO-017360-081913-MR-051	SB258-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-052	SB258-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-053	SB258-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-054	SB258-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-055	SB258-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-056	SB258-13	Soil	8-10	Duplicate
8/19/2013	SO-017360-081913-MR-057	SB258-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-034	SB259-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-035	SB259-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-036	SB259-13	Soil	2-4	Duplicate
8/19/2013	SO-017360-081913-MR-037	SB259-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-038	SB259-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-039	SB259-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-040	SB259-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-041	SB259-13	Soil	12-14	
8/19/2013	SO-017360-081913-MR-042	SB260-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-043	SB260-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-045	SB260-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-046	SB260-13	Soil	4-6	Duplicate
8/19/2013	SO-017360-081913-MR-047	SB260-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-048	SB260-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-049	SB260-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-050	SB260-13	Soil	12-14	
8/19/2013	SO-017360-081913-MR-027	SB261-13	Soil	0-2	
8/19/2013	SO-017360-081913-MR-028	SB261-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-029	SB261-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-030	SB261-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-031	SB261-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-032	SB261-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-033	SB261-13	Soil	12-14	
8/19/2013	SO-017360-081913-MR-019	SB262-13	Soil	2-4	
8/19/2013	SO-017360-081913-MR-020	SB262-13	Soil	4-6	
8/19/2013	SO-017360-081913-MR-021	SB262-13	Soil	6-8	
8/19/2013	SO-017360-081913-MR-022	SB262-13	Soil	8-10	
8/19/2013	SO-017360-081913-MR-023	SB262-13	Soil	8-10	Duplicate
8/19/2013	SO-017360-081913-MR-024	SB262-13	Soil	10-12	
8/19/2013	SO-017360-081913-MR-026	SB262-13	Soil	12-14	

Notes:
ft. bgs - feet below ground surface
QA/QC - Quality Assurance/Quality Control

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB100-11*	*SB100-11*	*SB162-11*	*SB163-11*	*SB164-11*	*SB164-11*
Sample Identification				*SO-17360-031511-DR-243*	*SO-17360-031511-DR-244*	*S-17360-092911-EM-082*	*S-17360-092911-EM-071*	*S-17360-092911-EM-076*	*S-17360-092911-EM-077*
Sample Date				*03/15/2011*	*3/15/2011*	*9/29/2011*	*9/29/2011*	*9/29/2011*	*9/29/2011*
Sample Depth				*(0.5-2.5) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*
Sample Type									*Duplicate*
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.68 U	0.28 U	0.17 U	0.034 U	0.035 U	0.035 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	3.3	0.28 U	0.56	0.034 U	0.14	0.078
Total PCBs	mg/kg	1	10	**3.3**[a]	ND	0.56	ND	0.14	0.078

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB165-11*	*SB165-11*	*SB165-11*	*SB166-11*	*SB166-11*	*SB166-11*
Sample Identification				*S-17360-092911-EM-092*	*S-17360-092911-EM-093*	*S-17360-092911-EM-094*	*S-17360-092911-EM-087*	*S-17360-092911-EM-088*	*S-17360-092911-EM-089*
Sample Date				*9/29/2011*	*9/29/2011*	*9/29/2011*	*9/29/2011*	*9/29/2011*	*9/29/2011*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	1.7 U	0.68 U	1.7 U	1.7 U	0.035 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	3	13	3.8	12	6.4	0.035 U
Total PCBs	mg/kg	1	10	**3**[a]	**13**[ab]	**3.8**[a]	**12**[ab]	**6.4**[a]	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB200-12*	*SB200-12*	*SB200-12*	*SB200-12*	*SB201-12*	*SB201-12*
Sample Identification		Substances	Substances	*SO-17360-103112-EB-158*	*SO-17360-103112-EB-159*	*SO-17360-103112-EB-160*	*SO-17360-103112-EB-161*	*SO-17360-103112-EB-164*	*SO-17360-103112-EB-165*
Sample Date		Control	Control	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*
Sample Depth		Act [1]	Act [2]	*(0-2) ft BGS*	*(2-4) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		a	b			*Duplicate*			
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.019 J	0.34 U	0.34 U	0.34 U	0.34 U	0.35 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.021 J	0.0045 J	0.0040 J	0.34 U	0.049 J	0.038 J
Total PCBs	mg/kg	1	10	0.04 J	0.0045 J	0.004 J	ND	0.049 J	0.038 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB201-12*	*SB202-12*	*SB202-12*	*SB202-12*	*SB203-12*	*SB203-12*
Sample Identification				*SO-17360-103112-EB-166*	*SO-17360-103112-EB-150*	*SO-17360-103112-EB-151*	*SO-17360-103112-EB-152*	*SO-17360-103112-EB-144*	*SO-17360-103112-EB-145*
Sample Date				*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*
Sample Depth				*(4-6) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*
Sample Type									*Duplicate*
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.35 U	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.046 J	0.071 J	0.66	0.062 J	0.25 J	0.24 J
Total PCBs	mg/kg	1	10	0.046 J	0.071 J	0.66	0.062 J	0.25 J	0.24 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB203-12*	*SB203-12*	*SB203-12*	*SB204-12*	*SB204-12*	*SB204-12*
Sample Identification				*SO-17360-103112-EB-146*	*SO-17360-103112-EB-147*	*SO-17360-103112-EB-149*	*SO-17360-103112-EB-139*	*SO-17360-103112-EB-140*	*SO-17360-103112-EB-141*
Sample Date				*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.34 U	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.38	0.19 J	1.3	0.68	0.88	0.15 J
Total PCBs	mg/kg	1	10	0.38	0.19 J	**1.3**[a]	0.68	0.88	0.15 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB205-12*	*SB205-12*	*SB205-12*	*SB206-12*	*SB206-12*	*SB206-12*
Sample Identification				*SO-17360-103112-EB-134*	*SO-17360-103112-EB-135*	*SO-17360-103112-EB-136*	*SO-17360-103112-EB-129*	*SO-17360-103112-EB-130*	*SO-17360-103112-EB-131*
Sample Date				*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*	*10/31/2012*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.34 U	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.034 J	0.021 J	0.34 U	0.37 U	0.35 U	0.36 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.042 J	0.042 J	0.060 J	0.033 J	0.028 J	0.038 J
Total PCBs	mg/kg	1	10	0.076 J	0.063 J	0.06 J	0.033 J	0.028 J	0.038 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
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J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB215-12*	*SB215-12*	*SB223-13*	*SB223-13*	*SB223-13*	*SB224-13*
Sample Identification				*SO-17360-103112-EB-156*	*SO-17360-103112-EB-157*	*SO-17360-042313-DR-003*	*SO-17360-042313-DR-004*	*SO-17360-042313-DR-005*	*SO-17360-042313-DR-006*
Sample Date				*10/31/2012*	*10/31/2012*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(6-8) ft BGS*	*(8-10) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*	*(0-2) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.34 U	0.35 U	0.33 U	0.35 U	0.32 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.0059 J	0.0068 J	0.077 J	1.2	8.2	0.32 U
Total PCBs	mg/kg	1	10	0.0059 J	0.0068 J	0.077 J	**1.2**[a]	**8.2**[a]	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
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J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB224-13*	*SB224-13*	*SB224-13*	*SB224-13*	*SB224-13*	*SB225-13*
Sample Identification				*SO-17360-042313-DR-007*	*SO-17360-042313-DR-008*	*SO-17360-042313-DR-009*	*SO-17360-042313-DR-010*	*SO-17360-042313-DR-011*	*SO-17360-042313-DR-012*
Sample Date				*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*	*(0-2) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.34 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.37	1.1	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	0.37	**1.1**[a]	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB225-13*	*SB225-13*	*SB225-13*	*SB225-13*	*SB225-13*	*SB225-13*
Sample Identification				*SO-17360-042313-DR-013*	*SO-17360-042313-DR-014*	*SO-17360-042313-DR-015*	*SO-17360-042313-DR-016*	*SO-17360-042313-DR-017*	*SO-17360-042313-DR-018*
Sample Date				*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type							*Duplicate*		
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.34 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.16 J	0.39	0.44	0.41	1.7
Total PCBs	mg/kg	1	10	ND	0.16 J	0.39	0.44	0.41	**1.7**[a]

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB226-13*	*SB226-13*	*SB226-13*	*SB226-13*	*SB226-13*	*SB226-13*
Sample Identification				*SO-17360-042313-DR-019*	*SO-17360-042313-DR-020*	*SO-17360-042313-DR-021*	*SO-17360-042313-DR-022*	*SO-17360-042313-DR-023*	*SO-17360-042313-DR-024*
Sample Date				*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.32 U	0.33 U	0.32 U	0.32 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.075 J	0.14 J	0.39	1.1	0.32 U	0.34 U
Total PCBs	mg/kg	1	10	0.075 J	0.14 J	0.39	**1.1**[a]	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB227-13*	*SB227-13*	*SB227-13*	*SB227-13*	*SB227-13*	*SB227-13*
Sample Identification				*SO-17360-042313-DR-025*	*SO-17360-042313-DR-026*	*SO-17360-042313-DR-027*	*SO-17360-042313-DR-028*	*SO-17360-042313-DR-029*	*SO-17360-042313-DR-030*
Sample Date				*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.32 U	0.33 U	0.32 U	0.32 U	0.32 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.42	0.6	1.5	3	2.7	0.34 U
Total PCBs	mg/kg	1	10	0.42	0.6	**1.5[a]**	**3[a]**	**2.7[a]**	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB228-13*	*SB228-13*	*SB228-13*	*SB228-13*	*SB228-13*	*SB228-13*
Sample Identification				*SO-17360-042313-DR-031*	*SO-17360-042313-DR-032*	*SO-17360-042313-DR-033*	*SO-17360-042313-DR-034*	*SO-17360-042313-DR-035*	*SO-17360-042313-DR-036*
Sample Date				*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type									
	Units	a	b						
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.58	2.3	0.33 U	0.33 U	0.33 U	0.34 U
Total PCBs	mg/kg	1	10	0.58	**2.3**[a]	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB228-13*	*SB229-13*	*SB229-13*	*SB229-13*	*SB230-13*
Sample Identification		Substances	Substances	*SO-17360-042313-DR-037*	*SO-17360-042313-DR-038*	*SO-17360-042313-DR-039*	*SO-17360-042313-DR-040*	*SO-17360-042313-DR-041*
Sample Date		Control	Control	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*	*4/23/2013*
Sample Depth		Act [1]	Act [2]	*(10-12) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*	*(6-8) ft BGS*
Sample Type		a	b	*Duplicate*				
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.34 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.58	0.33 U	0.21 J	0.94
Total PCBs	mg/kg	1	10	ND	0.58	ND	0.21 J	0.94

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB230-13*	*SB255-13*	*SB255-13*	*SB255-13*	*SB255-13*
Sample Identification				*SO-17360-042313-DR-042*	*SO-017360-081913-MR-010*	*SO-017360-081913-MR-011*	*SO-017360-081913-MR-012*	*SO-017360-081913-MR-013*
Sample Date				*4/23/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(10-12) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.33 U	0.34 U	0.32 U	0.34 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB255-13*	*SB255-13*	*SB255-13*	*SB255-13*	*SB256-13*
Sample Identification				*SO-017360-081913-MR-018*	*SO-017360-081913-MR-014*	*SO-017360-081913-MR-015*	*SO-017360-081913-MR-016*	*SO-017360-081913-MR-001*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(8-10) ft BGS*	*(10-12) ft BGS*	*(12-14) ft BGS*	*(14-16) ft BGS*	*(0-2) ft BGS*
Sample Type				*Duplicate*				
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.35 U	0.33 U	0.34 U	0.32 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB256-13*	*SB256-13*	*SB256-13*	*SB256-13*	*SB256-13*
Sample Identification				*SO-017360-081913-MR-002*	*SO-017360-081913-MR-003*	*SO-017360-081913-MR-004*	*SO-017360-081913-MR-005*	*SO-017360-081913-MR-009*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(8-10) ft BGS*
Sample Type								*Duplicate*
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.33 U	0.32 U	0.34 U	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
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J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB256-13*	*SB256-13*	*SB256-13*	*SB257-13*	*SB257-13*
Sample Identification		Substances	Substances	*SO-017360-081913-MR-006*	*SO-017360-081913-MR-007*	*SO-017360-081913-MR-008*	*SO-017360-081913-MR-058*	*SO-017360-081913-MR-059*
Sample Date		Control	Control	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth		Act [1]	Act [2]	*(10-12) ft BGS*	*(12-14) ft BGS*	*(14-16) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		a	b					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.39 U	0.34 U	0.33 U	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB257-13*	*SB257-13*	*SB257-13*	*SB257-13*	*SB257-13*
Sample Identification				*SO-017360-081913-MR-060*	*SO-017360-081913-MR-061*	*SO-017360-081913-MR-062*	*SO-017360-081913-MR-064*	*SO-017360-081913-MR-065*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(4-6) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type					*Duplicate*			
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.32 U	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB257-13*	*SB258-13*	*SB258-13*	*SB258-13*	*SB258-13*
Sample Identification				*SO-017360-081913-MR-066*	*SO-017360-081913-MR-051*	*SO-017360-081913-MR-052*	*SO-017360-081913-MR-053*	*SO-017360-081913-MR-054*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(12-14) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.33 U	0.32 U	0.33 U	0.32 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.062 J	0.32 U	0.038 J	0.32 U
Total PCBs	mg/kg	1	10	ND	0.062 J	ND	0.038 J	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB258-13*	*SB258-13*	*SB258-13*	*SB259-13*	*SB259-13*
Sample Identification		Substances	Substances	*SO-017360-081913-MR-055*	*SO-017360-081913-MR-056*	*SO-017360-081913-MR-057*	*SO-017360-081913-MR-034*	*SO-017360-081913-MR-035*
Sample Date		Control	Control	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth		Act [1]	Act [2]	*(8-10) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		a	b		*Duplicate*			
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.33 U	0.35 U	0.33 U	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB259-13*	*SB259-13*	*SB259-13*	*SB259-13*	*SB259-13*
Sample Identification				*SO-017360-081913-MR-036*	*SO-017360-081913-MR-037*	*SO-017360-081913-MR-038*	*SO-017360-081913-MR-039*	*SO-017360-081913-MR-040*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type				*Duplicate*				
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.35 U	0.33 U	0.32 U	0.32 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
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TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB259-13*	*SB260-13*	*SB260-13*	*SB260-13*	*SB260-13*
Sample Identification				*SO-017360-081913-MR-041*	*SO-017360-081913-MR-042*	*SO-017360-081913-MR-043*	*SO-017360-081913-MR-045*	*SO-017360-081913-MR-046*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(12-14) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(4-6) ft BGS*
Sample Type								*Duplicate*
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.33 U	0.33 U	0.33 U	0.38 U	0.37 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB260-13*	*SB260-13*	*SB260-13*	*SB260-13*	*SB261-13*
Sample Identification		Substances	Substances	*SO-017360-081913-MR-047*	*SO-017360-081913-MR-048*	*SO-017360-081913-MR-049*	*SO-017360-081913-MR-050*	*SO-017360-081913-MR-027*
Sample Date		Control	Control	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth		Act [1]	Act [2]	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*	*(12-14) ft BGS*	*(0-2) ft BGS*
Sample Type		a	b					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.43 U	0.35 U	0.34 U	0.33 U	0.34 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB261-13*	*SB261-13*	*SB261-13*	*SB261-13*	*SB261-13*
Sample Identification				*SO-017360-081913-MR-028*	*SO-017360-081913-MR-029*	*SO-017360-081913-MR-030*	*SO-017360-081913-MR-031*	*SO-017360-081913-MR-032*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(10-12) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.33 U	0.33 U	0.33 U	0.34 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB261-13*	*SB262-13*	*SB262-13*	*SB262-13*	*SB262-13*
Sample Identification				*SO-017360-081913-MR-033*	*SO-017360-081913-MR-019*	*SO-017360-081913-MR-020*	*SO-017360-081913-MR-021*	*SO-017360-081913-MR-022*
Sample Date				*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*	*8/19/2013*
Sample Depth				*(12-14) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.32 U	0.33 U	0.34 U	0.32 U	0.34 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
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TABLE 2

SUMMARY OF ANALYTICAL SOIL SAMPLE RESULTS - FORMER TAR HOUSE
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB262-13***	***SB262-13***	***SB262-13***
Sample Identification		**Substances**	**Substances**	***SO-017360-081913-MR-023***	***SO-017360-081913-MR-024***	***SO-017360-081913-MR-026***
Sample Date		**Control**	**Control**	***8/19/2013***	***8/19/2013***	***8/19/2013***
Sample Depth		**Act [1]**	**Act [2]**	***(8-10) ft BGS***	***(10-12) ft BGS***	***(12-14) ft BGS***
Sample Type		**a**	**b**	***Duplicate***		
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.34 U	0.34 U
Total PCBs	mg/kg	1	10	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB34-10*	*SB34-10*	*SB34-10*	*SB34-10*	*SB34-10*
Sample Identification		Substances	Substances	*SO-17360-4/20/10-DR-037*	*SO-17360-4/20/10-DR-038*	*SO-17360-4/20/10-DR-039*	*SO-17360-4/20/10-DR-040*	*SO-17360-4/20/10-DR-041*
Sample Date		Control	Control	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*
Sample Depth		Act [1]	Act [2]	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.28 UJ	0.28 UJ	0.32 UJ	0.29 U	0.28 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28 U	0.28 U	0.32 U	0.29 U	0.28 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB35-10*	*SB35-10*	*SB35-10*	*SB35-10*	*SB35-10*
Sample Identification				*SO-17360-4/20/10-DR-032*	*SO-17360-4/20/10-DR-033*	*SO-17360-4/20/10-DR-034*	*SO-17360-4/20/10-DR-035*	*SO-17360-4/20/10-DR-036*
Sample Date				*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*
Sample Depth				*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.31 U	0.3 U	0.31 U	0.3 U	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.31 U	0.3 U	0.04 J	0.3 U	0.29 U
Total PCBs	mg/kg	1	10	ND	ND	0.04 J	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB36-10*	*SB36-10*	*SB36-10*	*SB36-10*	*SB36-10*
Sample Identification				*SO-17360-4/20/10-DR-021*	*SO-17360-4/20/10-DR-022*	*SO-17360-4/20/10-DR-023*	*SO-17360-4/20/10-DR-024*	*SO-17360-4/20/10-DR-025*
Sample Date				*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*
Sample Depth				*(0-2) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*
Sample Type		a	b		*Duplicate*			
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.29 U	0.28 U	0.57 U	0.28 U	0.29 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB36-10*	*SB37-10*	*SB37-10*	*SB37-10*	*SB37-10*
Sample Identification		Substances	Substances	*SO-17360-4/20/10-DR-026*	*SO-17360-4/20/10-DR-015*	*SO-17360-4/20/10-DR-016*	*SO-17360-4/20/10-DR-017*	*SO-17360-4/20/10-DR-018*
Sample Date		Control	Control	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*	*4/20/2010*
Sample Depth		Act [1]	Act [2]	*(8-10) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type		a	b			*Duplicate*		
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28 U	0.27 U	0.27 U	0.29 U	0.29 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB37-10***	***SB37-10***	***SB38-10***	***SB38-10***	***SB38-10***
Sample Identification		**Substances**	**Substances**	***SO-17360-4/20/10-DR-019***	***SO-17360-4/20/10-DR-020***	***SO-17360-4/20/10-DR-009***	***SO-17360-4/20/10-DR-010***	***SO-17360-4/20/10-DR-011***
Sample Date		**Control**	**Control**	***4/20/2010***	***4/20/2010***	***4/20/2010***	***4/20/2010***	***4/20/2010***
Sample Depth		**Act [1]**	**Act [2]**	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***	***(2-4) ft BGS***	***(2-4) ft BGS***
Sample Type		**a**	**b**					***Duplicate***
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.028 J	0.022 J
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.29 U	0.28 U	0.28 U	0.28 U	0.28 U
Total PCBs	mg/kg	1	10	ND	ND	ND	0.028 J	0.022 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB38-10***	***SB38-10***	***SB38-10***	***SB40-10***	***SB40-10***
Sample Identification		**Substances**	**Substances**	***SO-17360-4/20/10-DR-012***	***SO-17360-4/20/10-DR-013***	***SO-17360-4/20/10-DR-014***	***SO-17360-4/20/10-DR-027***	***SO-17360-4/20/10-DR-028***
Sample Date		**Control**	**Control**	***4/20/2010***	***4/20/2010***	***4/20/2010***	***4/20/2010***	***4/20/2010***
Sample Depth		**Act [1]**	**Act [2]**	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***	***(2-4) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28 U	0.28 U	0.28 U	0.58 U	0.29 U
Total PCBs	mg/kg	1	10	ND	ND	ND	0	0

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB40-10*	*SB40-10*	*SB40-10*	*SB106-11*	*SB106-11*
Sample Identification		Substances	Substances	*SO-17360-4/20/10-DR-029*	*SO-17360-4/20/10-DR-030*	*SO-17360-4/20/10-DR-031*	*SO-17360-031411-DR-211*	*SO-17360-031411-DR-212*
Sample Date		Control	Control	*4/20/2010*	*4/20/2010*	*4/20/2010*	*3/14/2011*	*3/14/2011*
Sample Depth		Act [1]	Act [2]	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*
Sample Type		a	b					*Duplicate*
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28 U	0.33 U	0.29 U	0.29 U	0.29 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB106-11***	***SB106-11***	***SB106-11***	***SB106-11***	***SB107-11***
Sample Identification		**Substances**	**Substances**	***SO-17360-031411-DR-213***	***SO-17360-031411-DR-214***	***SO-17360-031411-DR-215***	***SO-17360-031411-DR-216***	***SO-17360-031411-DR-217***
Sample Date		**Control**	**Control**	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***
Sample Depth		**Act [1]**	**Act [2]**	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.34 U	0.28 U	0.29 U	0.28 U	0.3 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
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J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB107-11*	*SB107-11*	*SB107-11*	*SB107-11*	*SB108-11*
Sample Identification				*SO-17360-031411-DR-218*	*SO-17360-031411-DR-219*	*SO-17360-031411-DR-220*	*SO-17360-031411-DR-221*	*SO-17360-031411-DR-222*
Sample Date				*3/14/2011*	*3/14/2011*	*3/14/2011*	*3/14/2011*	*3/14/2011*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.36 U	0.22 J	0.35 U	0.29 U	0.3 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.36 U	0.39 U	0.35 U	0.29 U	0.3 U
Total PCBs	mg/kg	1	10	ND	0.22 J	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
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J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB108-11***	***SB108-11***	***SB108-11***	***SB108-11***	***SB109-11***
Sample Identification		**Substances**	**Substances**	***SO-17360-031411-DR-223***	***SO-17360-031411-DR-224***	***SO-17360-031411-DR-225***	***SO-17360-031411-DR-226***	***SO-17360-031411-DR-227***
Sample Date		**Control**	**Control**	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***
Sample Depth		**Act [1]**	**Act [2]**	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28 U	0.28 U	0.37 U	0.29 U	0.31 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB109-11*	*SB109-11*	*SB109-11*	*SB109-11*	*SB109-11*
Sample Identification				*SO-17360-031411-DR-228*	*SO-17360-031411-DR-229*	*SO-17360-031411-DR-230*	*SO-17360-031411-DR-231*	*SO-17360-031411-DR-232*
Sample Date				*3/14/2011*	*3/14/2011*	*3/14/2011*	*3/14/2011*	*3/14/2011*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b					*Duplicate*
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.27 U	0.29 U	0.5 U	0.28 U	0.28 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.27 U	0.048 J	0.5 U	0.28 U	0.28 U
Total PCBs	mg/kg	1	10	ND	0.048 J	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB110-11***	***SB110-11***	***SB110-11***	***SB110-11***	***SB110-11***
Sample Identification		**Substances**	**Substances**	***SO-17360-031411-DR-233***	***SO-17360-031411-DR-234***	***SO-17360-031411-DR-235***	***SO-17360-031411-DR-236***	***SO-17360-031411-DR-237***
Sample Date		**Control**	**Control**	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***
Sample Depth		**Act [1]**	**Act [2]**	***(0-2) ft BGS***	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.3 U	0.28 U	0.31 U	0.68 U	0.28 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.3 U	0.28 U	0.027 J	0.68 U	0.28 U
Total PCBs	mg/kg	1	10	ND	ND	0.027 J	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB111-11***	***SB111-11***	***SB111-11***	***SB111-11***	***SB111-11***
Sample Identification		**Substances**	**Substances**	***SO-17360-031411-DR-238***	***SO-17360-031411-DR-239***	***SO-17360-031411-DR-240***	***SO-17360-031411-DR-241***	***SO-17360-031411-DR-242***
Sample Date		**Control**	**Control**	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***	***3/14/2011***
Sample Depth		**Act [1]**	**Act [2]**	***(0-2) ft BGS***	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.3 U	0.3 U	0.37 U	0.89 U	0.33 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB145-11*	*SB145-11*	*SB145-11*	*SB145-11*	*SB145-11*	*SB145-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-151*	*S-17360-093011-EM-152*	*S-17360-093011-EM-153*	*S-17360-093011-EM-154*	*S-17360-093011-EM-155*	*S-17360-093011-EM-156*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(0-2) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b		*Duplicate*				
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.036 U	0.037 U	0.035 U	0.036 U	0.08 U	0.048 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB146-11*	*SB146-11*	*SB146-11*	*SB146-11*	*SB146-11*	*SB147-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-146*	*S-17360-093011-EM-147*	*S-17360-093011-EM-148*	*S-17360-093011-EM-149*	*S-17360-093011-EM-150*	*S-17360-093011-EM-141*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	0.18 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.037 U	0.036 U	0.035 U	0.081 U	0.077 U	1.1
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND	**1.1[a]**

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB147-11*	*SB147-11*	*SB147-11*	*SB147-11*	*SB148-11*	*SB148-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-142*	*S-17360-093011-EM-143*	*S-17360-093011-EM-144*	*S-17360-093011-EM-145*	*S-17360-093011-EM-136*	*S-17360-093011-EM-137*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	0.81 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	0.81 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	0.81 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	0.81 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	0.81 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.036 U	0.098 U	0.12 U	0.11 U	1.8 U	10
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.28	0.098 U	0.12 U	0.11 U	14	0.81 U
Total PCBs	mg/kg	1	10	0.28	ND	ND	ND	**14[ab]**	**10[a]**

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB148-11*	*SB148-11*	*SB148-11*	*SB149-11*	*SB149-11*	*SB149-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-138*	*S-17360-093011-EM-139*	*S-17360-093011-EM-140*	*S-17360-093011-EM-131*	*S-17360-093011-EM-132*	*S-17360-093011-EM-133*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.18 U	1.1 U	0.035 U	1.8 U	0.038 U	0.075 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.89	7.1	0.035 U	8.9	0.34	0.075 U
Total PCBs	mg/kg	1	10	0.89	**7.1**[a]	ND	**8.9**[a]	0.34	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB149-11*	*SB149-11*	*SB150-11*	*SB150-11*	*SB150-11*	*SB150-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-134*	*S-17360-093011-EM-135*	*S-17360-093011-EM-126*	*S-17360-093011-EM-127*	*S-17360-093011-EM-128*	*S-17360-093011-EM-129*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.035 U	0.036 U	0.73 U	0.036 U	0.037 U	0.046 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.035 U	0.036 U	4.8	0.22	0.076	0.043 J
Total PCBs	mg/kg	1	10	ND	ND	**4.8**[a]	0.22	0.076	0.043 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB150-11*	*SB151-11*	*SB151-11*	*SB151-11*	*SB151-11*	*SB151-11*
Sample Identification		Substances	Substances	*S-17360-093011-EM-130*	*S-17360-093011-EM-121*	*S-17360-093011-EM-122*	*S-17360-093011-EM-123*	*S-17360-093011-EM-124*	*S-17360-093011-EM-125*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*
Sample Depth		Act [1]	Act [2]	*(8-10) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.036 U	0.037 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.038 U	0.035 U	0.035 U	0.035 U	0.057	0.037 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	0.057	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB152-11*	*SB152-11*	*SB152-11*	*SB152-11*	*SB152-11*	*SB207-12*
Sample Identification		Substances	Substances	*S-17360-093011-EM-116*	*S-17360-093011-EM-117*	*S-17360-093011-EM-118*	*S-17360-093011-EM-119*	*S-17360-093011-EM-120*	*S-17360-110112-DD-185*
Sample Date		Control	Control	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*9/30/2011*	*11/01/2012*
Sample Depth		Act [1]	Act [2]	*(0-2) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*
Sample Type		a	b						
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.37 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.036 U	0.036 U	0.035 U	0.035 U	0.036 U	0.24 J
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND	0.24 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB207-12*	*SB207-12*	*SB207-12*	*SB207-12*	*SB207-12*	*SB212-12*
Sample Identification				*S-17360-110112-DD-186*	*S-17360-110112-DD-187*	*S-17360-110112-DD-188*	*S-17360-110112-DD-189*	*S-17360-110112-DD-190*	*S-17360-110112-DD-191*
Sample Date				*11/01/2012*	*11/01/2012*	*11/01/2012*	*11/01/2012*	*11/01/2012*	*11/01/2012*
Sample Depth				*(2-4) ft BGS*	*(4-6) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(0-2) ft BGS*
Sample Type						*Duplicate*			
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	1.4 U	0.63 U	0.78 U	0.37 U	0.58 U	0.35 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	23	6.1	12	0.20 J	0.0097 J	0.039 J
Total PCBs	mg/kg	1	10	**23**[ab]	**6.1**[a]	**12**[ab]	0.2 J	0.0097 J	0.039 J

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB212-12***	***SB212-12***	***SB212-12***	***SB212-12***	***SB232-13***
Sample Identification		**Substances**	**Substances**	***S-17360-110112-DD-192***	***S-17360-110112-DD-193***	***S-17360-110112-DD-194***	***S-17360-110112-DD-195***	***SO-17360-042413-DR-050***
Sample Date		**Control**	**Control**	***11/01/2012***	***11/01/2012***	***11/01/2012***	***11/01/2012***	***04/24/2013***
Sample Depth		**Act [1]**	**Act [2]**	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.36 U	0.36 U	0.38 U	0.41 U	0.37 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.0081 J	0.36 U	0.019 J	0.41 U	0.37 U
Total PCBs	mg/kg	1	10	0.0081 J	ND	0.019 J	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB232-13***	***SB232-13***	***SB232-13***	***SB232-13***	***SB277-13***
Sample Identification		**Substances**	**Substances**	***SO-17360-042413-DR-051***	***SO-17360-042413-DR-052***	***SO-17360-042413-DR-053***	***SO-17360-042413-DR-054***	***SO-017360-102213-MR-040***
Sample Date		**Control**	**Control**	***04/24/2013***	***04/24/2013***	***04/24/2013***	***04/24/2013***	***10/22/2013***
Sample Depth		**Act [1]**	**Act [2]**	***(2-4) ft BGS***	***(4-6) ft BGS***	***(6-8) ft BGS***	***(8-10) ft BGS***	***(0-2) ft BGS***
Sample Type		**a**	**b**					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.41 U	0.38 U	0.55 U	0.66 U	0.093 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB277-13*	*SB277-13*	*SB277-13*	*SB277-13*	*SB277-13*
Sample Identification		Substances	Substances	*SO-017360-102213-MR-041*	*SO-017360-102213-MR-042*	*SO-017360-102213-MR-043*	*SO-017360-102213-MR-044*	*SO-017360-102213-MR-045*
Sample Date		Control	Control	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*
Sample Depth		Act [1]	Act [2]	*(2-4) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b				*Duplicate*	
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.091 U	0.087 U	0.12 U	0.11 U	0.16 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic Substances Control Act [1]	Toxic Substances Control Act [2]	*SB278-13*	*SB278-13*	*SB278-13*	*SB280-13*	*SB280-13*
Sample Identification				*SO-017360-102213-MR-047*	*SO-017360-102213-MR-048*	*SO-017360-102213-MR-049*	*SO-017360-102213-MR-051*	*SO-017360-102213-MR-052*
Sample Date				*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*
Sample Depth				*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*
Sample Type								
	Units	a	b					
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.1 U	0.1 U	0.29 UJ	0.086 U	0.091 UJ
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB280-13*	*SB282-13*	*SB282-13*	*SB282-13*	*SB282-13*
Sample Identification		Substances	Substances	*SO-017360-102213-MR-053*	*SO-017360-102213-MR-036*	*SO-017360-102213-MR-037*	*SO-017360-102213-MR-038*	*SO-017360-102213-MR-039*
Sample Date		Control	Control	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*
Sample Depth		Act [1]	Act [2]	*(8-10) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*
Sample Type		a	b				*Duplicate*	
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.095 U	0.087 U	0.1 U	0.098 U	0.35 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB284-13*	*SB284-13*	*SB284-13*	*SB284-13*	*SB292-13*
Sample Identification		Substances	Substances	*SO-017360-102213-MR-030*	*SO-017360-102213-MR-031*	*SO-017360-102213-MR-032*	*SO-017360-102213-MR-033*	*SO-017360-102113-MR-018*
Sample Date		Control	Control	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/22/2013*	*10/21/2013*
Sample Depth		Act [1]	Act [2]	*(4-6) ft BGS*	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(2-4) ft BGS*
Sample Type		a	b		*Duplicate*			
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.086 U	0.086 U	0.085 U	0.093 U	0.089 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		Toxic	Toxic	*SB292-13*	*SB292-13*	*SB292-13*	*SB294-13*	*SB294-13*
Sample Identification		Substances	Substances	*SO-017360-102113-MR-019*	*SO-017360-102113-MR-020*	*SO-017360-102113-MR-021*	*SO-017360-102113-MR-023*	*SO-017360-102113-MR-024*
Sample Date		Control	Control	*10/21/2013*	*10/21/2013*	*10/21/2013*	*10/21/2013*	*10/21/2013*
Sample Depth		Act [1]	Act [2]	*(4-6) ft BGS*	*(6-8) ft BGS*	*(8-10) ft BGS*	*(2-4) ft BGS*	*(4-6) ft BGS*
Sample Type		a	b					
	Units							
PCBs								
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.084 U	0.083 U	0.085 U	0.088 U	0.085 U
Total PCBs	mg/kg	1	10	ND	ND	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

TABLE 3

SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS - BULK UNLOAD AREA
RISK-BASED PCB CLEANUP PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		**Toxic**	**Toxic**	***SB294-13***	***SB294-13***	***SB294-13***
Sample Identification		**Substances**	**Substances**	***SO-017360-102113-MR-025***	***SO-017360-102113-MR-026***	***SO-017360-102113-MR-027***
Sample Date		**Control**	**Control**	***10/21/2013***	***10/21/2013***	***10/21/2013***
Sample Depth		**Act [1]**	**Act [2]**	***(6-8) ft BGS***	***(8-10) ft BGS***	***(8-10) ft BGS***
Sample Type		**a**	**b**			***Duplicate***
	Units					
PCBs						
Aroclor-1016 (PCB-1016)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1221 (PCB-1221)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1232 (PCB-1232)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1242 (PCB-1242)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1248 (PCB-1248)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1254 (PCB-1254)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Aroclor-1260 (PCB-1260)	mg/kg	1	10	0.087 U	0.087 U	0.086 U
Total PCBs	mg/kg	1	10	ND	ND	ND

Notes:
[1] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas without further conditions (40 CFR 761.61(a)(4)(i)).
[2] Toxic Substances Control Act (TSCA) Criterion for bulk PCB remediation waste in High Occupancy Areas with restrictions (40 CFR 761.61(a)(4)(i)).
U - Not detected at the associated reporting limit.
J - Estimated concentration.
UJ - Not detected; associated reporting limit is estimated.

Appendix A

Self-Implementing Plan for the Remediation of PCB-Impacted Soils Pursuant to 40 CFR 761.61(a)

SELF-IMPLEMENTING PLAN FOR THE REMEDIATION OF PCB-IMPACTED SOILS PURSUANT TO 40 CFR 761.61(a)

FORMER GRAND RAPIDS METAL PLANT
300 36th STREET SW
WYOMING, MICHIGAN

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FIGURE 2.1 SITE PLAN

FIGURE 3.1 PCB AREA NO. 1 – DELINEATION SAMPLE LOCATIONS

FIGURE 3.2 PCB AREA NO. 2 – DELINEATION SAMPLE LOCATIONS

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TABLE 3.2 SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 1

TABLE 3.3 SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2

LIST OF APPENDICES

APPENDIX A STRATIGRAPHIC SOIL BORING LOGS

1.0 INTRODUCTION/PURPOSE OF REPORT

Conestoga-Rovers & Associates (CRA) has prepared this Self-Implementing Plan (SIP) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The Site location is presented on Figure 1.1. This SIP has been prepared for submittal to the United States Environmental Protection Agency (U.S. EPA) – Region 5, the Michigan Department of Environmental Quality (MDEQ), and the Kent County Health Department (KCHD) in accordance with the procedures set forth in 40 Code of Federal Regulations (CFR) 761.61(a) of the Toxic Substances Control Act (TSCA) regarding the characterization and remediation of polychlorinated biphenyl (PCB) remediation waste.

General Motors Corporation (GMC) initiated automotive manufacturing operations at the Site in 1936. Operations ceased at the Site on June 30, 2010. GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC) retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites formerly owned by MLC, including the Site. The Site was sold to the City of Wyoming Brownfield Redevelopment Authority (WBRA) on June 28, 2011; however, RACER Trust retains certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC. As such, the scope of this SIP is limited to specific subsurface areas of the Site only, as described in subsequent sections.

The Site is currently undergoing redevelopment activities including decommissioning, demolition, and property re-grading by contractors on behalf of the WBRA. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time.

This SIP is being filed with the U.S. EPA, MDEQ, and the KCHD in accordance with 40 CFR 761.61(a)(3)(i). RACER Trust respectfully requests an expedited review of this SIP in order to assist the on-going redevelopment efforts of the WBRA's contractors in the removal of the former Main Manufacturing Building slab and re-grading activities in a timely manner.

2.0 SITE BACKGROUND/HISTORY

2.1 SITE DESCRIPTION

The Site is located at 300 36th Street SW and consists of approximately 88 acres of land. The Site historically included an approximately 2 million square-foot Main Manufacturing Building and several outlying buildings and ancillary structures (Wastewater Treatment Plant [WWTP], Power House, Press Staging Building, Primary Switch House, Baler House, Rack Make-Up Building, South Fire Pump House, West Fire Pump House, Storm Sewer Pump House, Cooling Tower Pump House, Metal Storage Shed, and Guard House), asphalt and concrete-paved areas, a stormwater retention pond, and vegetated and landscaped areas. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time. Figure 2.1 presents a Site plan.

2.2 ENVIRONMENTAL SETTING

The Site is located in a mixed industrial, commercial, residential and recreational area in the City of Wyoming, Michigan with Buchanan Ave SW and mixed industrial/residential to the east, mixed recreational and residential to the north, railroad tracks and mixed commercial/industrial to the west, and 40th Street SW and residential to the south as further discussed below.

The Site is abutted to the north by Price and Company, Godwin Heights Public Schools athletic fields and residential properties, with Hillcroft Park located beyond.

The Site is abutted to the east by Buchanan Street followed by an Amoco gas station, Tint Factory, N&A Auto Repair, Prestige Transport, LLC, Steil Property Management, RSP Investment Property, Inc., MSC Industrial Supply Co., Clean Rooms International, Independent Glass, Chase Creative Unlimited, Ter Molen & Hart Sheet Metal, Tracer Tool & Die Co., United Auto Workers (UAW) Hall, Conical Tapered Mills, a vacant commercial/industrial building, a vacant lot, Mark Maker Company, and residential properties.

The Site is abutted to the south by 40th Street followed by Accurate Alignment & Brake and residential properties.

The Site is abutted to the west by railroad tracks, Cole Drain, Consumers high-tension power lines, Consumers Service Center, The Macomb Group, and Clay Avenue followed by Ryder Truck, Cummins, a vacant commercial/industrial building, K-Mac Plastics,

Floyd's Electric, Consolidated Metal Products, Inc., Rose Pest Solutions, Donald Engineering, and Earl Jourdan Auto Parts.

2.3 SITE HISTORY

GMC initiated automotive manufacturing operations at the Site in 1936. Additional buildings were constructed and the Site was expanded several times between 1937 and 2006. Primary operations conducted at the Site consisted of metal fabrication and assembly for consumer vehicles. Operations ceased at the Site on June 30, 2010. The Site is currently on the Michigan Act 451, Part 201 Site List (Site Identification No. 41000115) and RACER Trust is conducting Site-wide investigation and monitoring activities associated with the listing.

The Site is currently undergoing redevelopment activities including decommissioning, demolition, and property re-grading by contractors on behalf of the WBRA. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time.

2.4 HISTORICAL USAGE OF PCBs

As part of initial facility decommissioning, a draft Facility Environmental Assessment (FEA) was performed by CRA in October 2010, which included an evaluation of above grade potential PCB-containing or impacted materials. Additionally, as part of the on-going investigations and assessments being conducted at the Site associated with the Michigan Act 451, Part 201 listing, a Current Conditions Report (CCR) was prepared by CRA in December 2010, which included an evaluation of potential PCB-containing materials. As previously indicated, the scope of this SIP is limited to specific subsurface areas of the Site only, as described in subsequent sections.

The scope of work for the FEA and CCR included a Site walkthroughs of accessible Site structures, interviews with Site personnel, and a Site file review to identify potential PCB-containing materials known or suspected to have been used at the Site. Information was compiled on Site during the Site inspection, file review and interviews by CRA. Information obtained included Site drawings, Site environmental records, and copies of miscellaneous lists (equipment, wastes, etc.).

According to historical document reviews and interviews with Site personnel, the known historical uses of PCBs at the Site included: fluorescent light ballasts, hydraulic oils in machinery, and dielectric oil within transformers and capacitors. Potential PCB-

containing materials or PCB-containing materials observed included: dielectric fluids; impacted concrete and metal surfaces; light ballasts; natural gas lines; non-electrical oil-containing equipment such as elevators, air compressors and dock levelers; and solid PCB bulk product materials (i.e., floor block).

3.0 SITE CHARACTERIZATION

As identified in Section 2.3, the Site is on the Michigan Act 451, Part 201 sites list and is currently undergoing investigation and cleanup on a voluntary basis. Numerous subsurface investigations have been conducted at the Site between 1981 and 2012, which primarily evaluated non-PCB related areas of concern.

This section addresses specific subsurface evaluations conducted relative to delineation of two areas (PCB Area No. 1 and PCB Area No. 2) where PCBs were identified during a Site-wide investigation at concentrations above the High Occupancy Area Cleanup Level of 1 ppm/1 mg/kg for bulk remediation waste (without further conditions) set forth in TSCA. These two areas are being addressed at this time as the new property owner implements redevelopment activities in the area of the former Main Manufacturing Building footprint. Additional areas of PCB detections in soil above the 1 mg/kg High Occupancy Area Cleanup Level are present at the Site outside the former Main Manufacturing Building footprint; however, are not addressed in this SIP. These areas will be further evaluated and addressed, as applicable, in accordance with 40 CFR 761.61 at a later date.

3.1 SOIL BORING INSTALLATION/SOIL SAMPLING

PCB Area Nos. 1 and 2 were investigated in February and September 2011, and April 2012 through the installation of soil borings and the collection of soil samples.

Soil borings were advanced utilizing a rotosonic or direct-push (i.e., Geoprobe®) drill rig with continuous Macrocore® sampling. The Macrocore® samples were logged, examined by a CRA geologist for visual/olfactory evidence of impact, and screened with an 11.7 electron volt (eV) bulb photoionization detector (PID). The stratigraphic soil boring logs are presented in Appendix A. Soil samples, including Quality Assurance/Quality Control (QA/QC) samples, were collected from the soil boring locations for laboratory analysis as described in Sections 3.1.1 and 3.1.2. A sample summary is presented in Table 3.1.

Soil cuttings were screened with an 11.7 eV bulb PID and examined for visual/olfactory indication of contamination. All soil cuttings were containerized in Department of Transportation (DOT)-approved 55-gallon drums labeled for future characterization and off-Site disposal.

Upon completion of soil sample collection, each soil boring was abandoned by backfilling the soil boring annulus with bentonite chips to the ground surface and properly hydrating.

A survey was completed for the soil boring locations. Soil boring locations and elevations were surveyed, with elevations to the nearest 0.01-foot. The elevations were referenced to a designated above mean sea level benchmark.

3.1.1 PCB AREA NO. 1

A Site-wide investigation was conducted in February 2012. As part of this investigation, one soil boring, SB61-11, was advanced in the central portion of the former Main Manufacturing Building. Soil samples were collected for chemical analysis from the 1 to 3-foot interval immediately beneath the concrete floor slab (0 to 1-foot interval was comprised on concrete floor slab) and from the 18 to 20-foot interval (immediately above the water table). The soil samples were submitted to the laboratory for chemical analysis for PCBs, Target Compound List (TCL) volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), and Target Analyte List (TAL) metals (minus earth metals). Based on the analytical results, PCBs were detected in the soil sample collected from 1 to 3 feet bgs from SB61-11 at a concentration of 4.4 mg/kg.

Based on the detection of PCBs above 1 mg/kg in the shallow soil sample collected from SB61-11, five additional soil borings were advanced in September 2011, SB153-11 through SB156-11 and SB167-11. Soil borings SB153-11 through SB155-11 and SB167-11 were advanced on 10-foot spacing directly to the north, south, east, and west of SB61-11 and SB156-11 was advanced adjacent to SB61-11. Soil samples were collected from SB153-11 through SB155-11 and SB167-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Soil samples were collected from SB156-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. The soil samples collected from the 0.5 to 2.5-foot and 2.5 to 4.0-foot intervals were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected. Therefore, the deeper samples were not analyzed by the laboratory.

Based on the results of the February and September 2011 investigations, four additional soil borings, SB173-12 through SB176-12, were advanced in April 2012. Soil borings SB173-12 through SB176-12 were advanced on 10-foot spacing to the northeast, northwest, southeast, and southwest of SB61-11/SB156-11 to complete the required delineation grid of the area. Soil samples were collected from SB173-12 through SB176-12 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. It should be noted that in SB173-12, the concrete slab was 2 feet thick, so the interval for the initial soil sample was the 2 to 4-foot interval, with refusal from concrete encountered below this level. Soil samples collected from the interval immediately beneath the floor slab and the subsequent interval were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg. Therefore, the deeper samples were not analyzed by the laboratory.

Stratigraphic soil boring logs are presented in Appendix A. Table 3.1 presents a sample summary. Table 3.2 presents a summary of PCB analytical results for PCB Area No. 1. Figure 3.1 presents the sample locations and results for PCBs.

3.1.2 PCB AREA NO. 2

A Site-wide investigation was conducted in February 2011. As part of this investigation, one soil boring, SB124-11, was advanced in the central portion of the former Main Manufacturing Building. Soil samples were collected for chemical analysis from the 1 to 3-foot interval immediately beneath the concrete floor slab (0 to 1-foot interval was comprised on concrete floor slab) and from the 17 to 19-foot interval (immediately above the water table). The soil samples were submitted to the laboratory for chemical analysis for PCBs, TCL VOCs, PNAs, and TAL metals (minus earth metals). Based on the analytical results, PCBs were detected in the soil sample collected from 1 to 3 feet bgs from SB124-11 at a concentration of 1.3 mg/kg.

Based on the detection of PCBs above 1 mg/kg in the shallow soil sample collected from SB124-11, five additional soil borings were advanced in September 2011, SB157-11 through SB161-11. Soil borings SB157-11 through SB159-11 and SB161-11 were advanced on 10-foot spacing directly to the north, south, east, and west of SB124-11 and SB160-11 was advanced adjacent to SB124-11. Soil samples were collected from SB157-11 through SB159-11 and SB161-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab were

analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Soil samples were collected from SB160-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. The soil samples collected from the 0.5 to 2.5-foot and 2.5 to 4.0-foot intervals were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were detected in the soil sample collected from the 0.6 to 2.6-foot interval from SB159-11 at a concentration of 1.1 mg/kg. Therefore, the soil samples from the 2.6 to 4-foot and 4 to 6-foot intervals were analyzed by the laboratory. The analytical results for the deeper interval samples collected from SB159-11 and the shallow interval samples from the remainder of the borings did not indicate the presence of PCBs at concentrations above 1 mg/kg. Therefore, additional deeper samples were not analyzed by the laboratory

Based on the results of the February and September 2011 investigations, seven additional soil borings, SB181-12 through SB187-12, were planned for April 2012 to complete the required delineation grid of the area. Upon mobilization to the Site to conduct the delineation activities, it was identified that previous soil excavation activities had been conducted in the area immediately to the southwest of the delineation area and the concrete and underlying partially collapsed soil to the southwest of SB159-11 area was determined to be unstable and unsafe for the situation of the drill rig for the advancement of soil borings, SB182-12 and SB183-12. According to individuals associated with the on-going redevelopment activities, the materials that were excavated to the south-southwest of the delineation area were stockpiled on the concrete floor slab of the former Main Manufacturing Building immediately adjacent to the delineation and excavated areas. This material appears to be approximately 30 cubic yards in volume. An 8-point composite sample of this material will be collected to confirm that PCBs are not detected at a concentration of 1 ppm in the excavated material. Soil borings SB181-12 and SB184-12 through SB187-12 were advanced on 10-foot spacing to the northeast, northwest, southeast, and southwest of SB124-11/SB160-11 and SB159-11. Soil samples were collected from SB181-12 and SB184-12 through SB187-12 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab and the subsequent interval were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg. Therefore, the deeper samples were not analyzed by the laboratory.

Stratigraphic soil boring logs are presented in Appendix A. Table 3.1 presents a sample summary. Table 3.3 presents a summary of PCB analytical results for PCB Area No. 2. Figure 3.2 presents the sample locations and results for PCBs.

3.2 ANALYTICAL METHODS

The soil samples were submitted under chain-of-custody protocols to Test America Laboratories of North Canton, Ohio or TriMatrix Laboratories of Grand Rapids, Michigan. The soil samples were extracted and analyzed for individual Aroclors (Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260) and total PCBs utilizing U.S.EPA Method 3540C/3550C for extraction/preparation and Method 8082/8082A for chemical analysis consistent with SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" 3rd Edition, and promulgated updates, November 1986.

Copies of analytical reports will be maintained and available for review by U.S. EPA as identified in Section 6.0.

3.3 DATA VALIDATION

All analytical data was assessed utilizing quality control criteria established by the Quality Assurance Project Plan (QAPP) for the on-going Part 201 investigation work at the Site. Data validation memoranda outlining the details of the data validation will be maintained and available for review by U.S. EPA as identified in Section 6.0.

4.0 CLEANUP PLAN/REMEDIATION APPROACH

Based on the pre-cleanup characterization results, soil materials within the boundaries of the delineation to less than 1 ppm will be removed via excavation for off-Site disposal.

Soils will be removed to approximately 3 feet bgs for PCB Area Nos. 1 and 2. Approximately 250 cubic yards of material is anticipated to be removed from PCB Area No. 1 and approximately 390 cubic yards of material is anticipated to be removed from PCB Area No. 2 for off-Site disposal. For PCB Area No. 2, soil will also be removed from the area originally anticipated to be delineated through soil borings SB182-12 and SB183-12, to the extent of the area previously excavated during redevelopment activities (see Section 3.1.2). The anticipated extent of the proposed excavations for PCB Area Nos. 1 and 2 is presented on Figures 3.1 and 3.2, respectively.

Based on the pre-cleanup characterization, all materials have a PCB concentration of less than 50 ppm. These materials will be disposed of at Waste Management's Autumn Hills Landfill in Zeeland, Michigan, in accordance with 40 CFR 761.61 (a)(5).

5.0 SOIL VERIFICATION

Pre-cleanup characterization was conducted in accordance with the requirements of 40 CFR 761 Subpart N. As identified in Sections 3.0 and 4.0, results were compared to the cleanup standard of 1.0 ppm for bulk PCB remediation waste located in high-occupancy areas per 40 CFR 761.61(a)(4)(i)(A) and excavation will be conducted in the delineated extent to this cleanup level. No further verification sampling is proposed under 40 CFR 761; however, one additional floor soil sample from PCB Area No. 1 and one additional floor soil sample from PCB Area No. 2 will be collected for analysis for PCBs to meet MDEQ requirements.

6.0 PLAN CERTIFICATION

Pursuant to 40 CFR 761.61 (a)(3)(i)(E), all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrument/chemical analysis procedures used to assess or characterize the PCB contamination related to the investigation and cleanup activities specified herein will be maintained in the following location and accessible for inspection by U.S. EPA:

- Conestoga-Rovers & Associates, Inc.
  Attn: Jennifer Quigley, P.E.
  200 West Allegan Street, Suite 300
  Plainwell, Michigan 49080-1397

Barbara VanDuren
Property Owner's Representative Signature

6/6/12
Date

Barbara Van Duren
Property Owner's Representative Printed Name

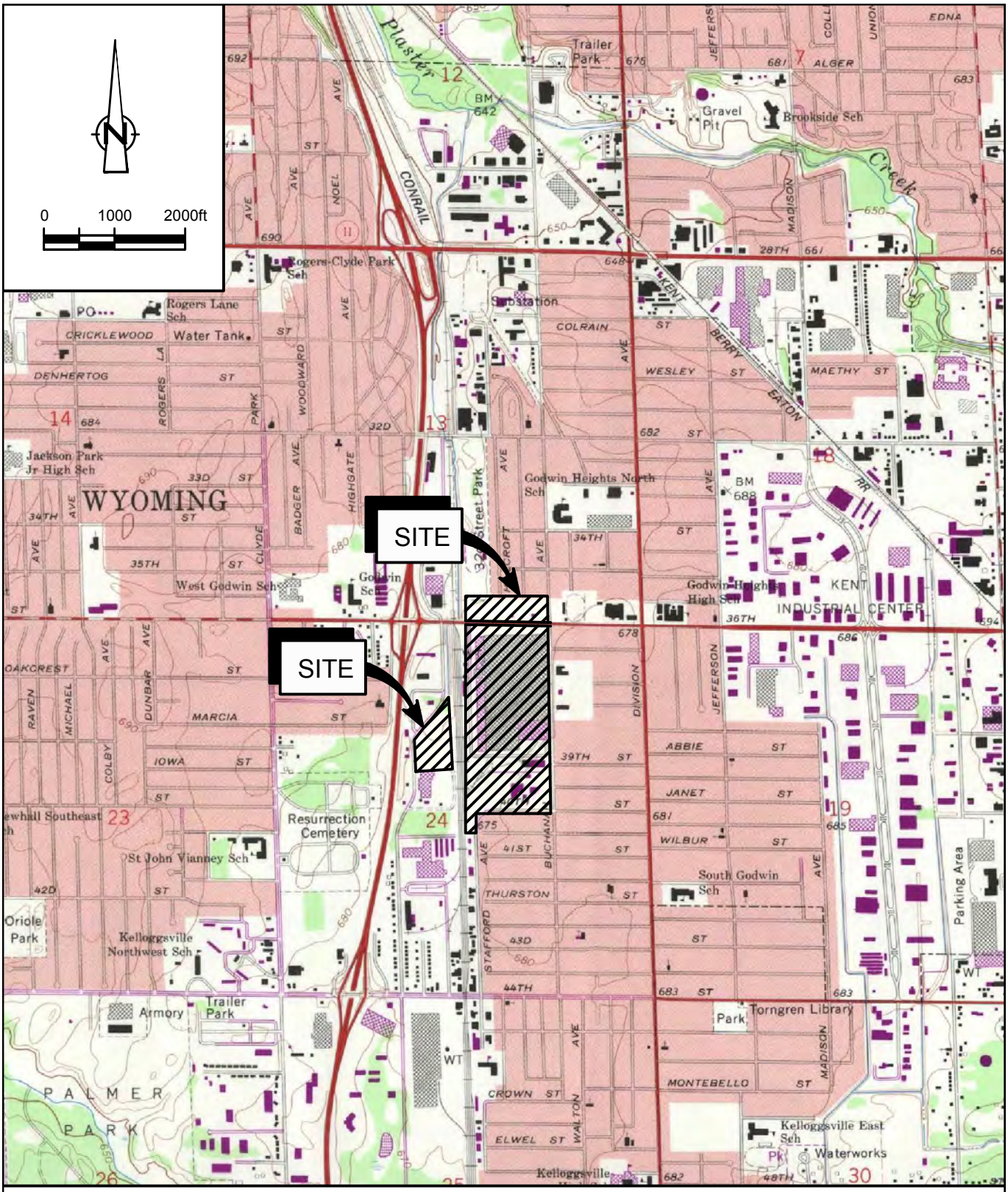
1155 28th Street SW, Wyoming, MI 49509
Address of Property Owner

FOR DAVE FAVERO
Cleanup Party's Representative Signature

6/1/12
Date

David Favero, Deputy Cleanup Manager
Cleanup Party's Representative Printed Name

2930 Ecorse Road, Ypsilanti, MI 48198
Address of Cleanup Party



SOURCE: USGS QUADRANGLE MAP
GRAND RAPIDS WEST, MICHIGAN

figure 1.1

GRAND RAPIDS

SITE LOCATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(028)GN-DE005 MAY 31/2012

RESIDENTIAL
COMMERCIAL
COMMERCIAL/INDUSTRIAL
COMMERCIAL/RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
BUCHANAN STREET
367TH STREET
407TH STREET
STAFFORD ORD
CLAY AVE.
CLAY AVE
FORMER MAIN MANUFACTURING BUILDING
FORMER RACK MAKE-UP BUILDING
FORMER POWER HOUSE
FORMER USED OIL AST
FORMER WWTP
FORMER PRESS STAGING BUILDING
FORMER BALER HOUSE
PUMP HOUSE
500,000 GALLON WATER STORAGE TANK
PRIMARY SWITCH HOUSE
GUARD HOUSE
TRUCK SCALE PIT
STORM SEWER PUMP HOUSE
METAL STORAGE SHED
STORM WATER RETENTION BASIN
EMPLOYEE ENTRANCE BUILDING
0 100 250ft

LEGEND

APPROXIMATE PROPERTY BOUNDARY

AREA OF PCB IMPACTED SOIL EVALUATION

FENCE

RAILROAD

COLE DRAIN

figure 1.2

SITE PLAN
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(028)GN-DE006 MAY 31/2012

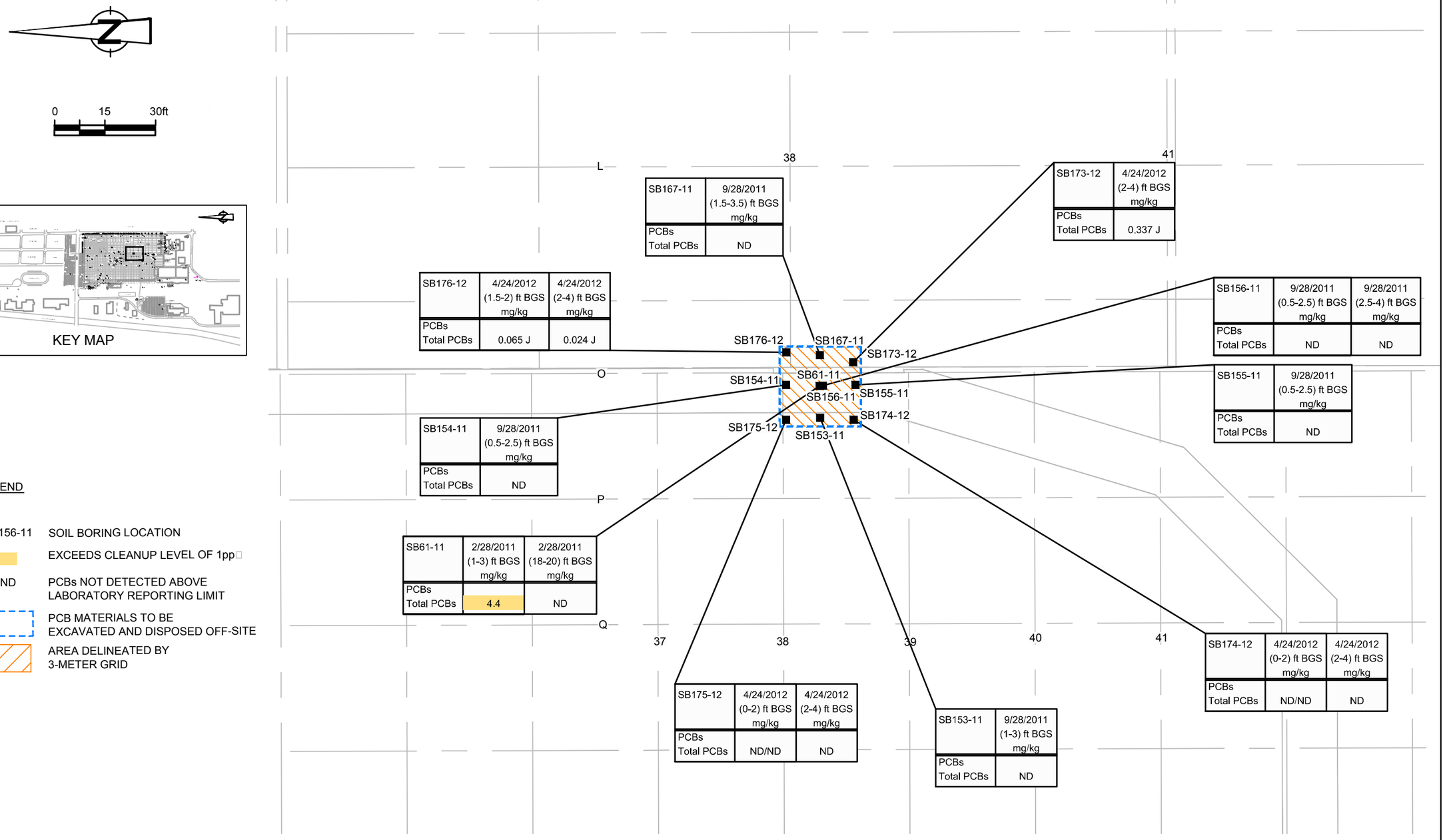
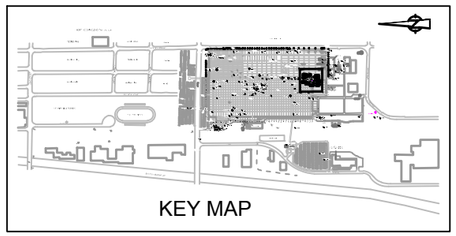


figure 3.1

DRAFT

PCB AREA NO. 1 - DELINEATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

0 15 30ft



SB187-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	0.15 J	ND

SB161-11	9/27/2011 (0.5-2.5) ft BGS mg/kg
PCBs Total PCBs	ND

SB181-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	0.0054 J

SB157-11	9/27/2011 (0.7-2.7) ft BGS mg/kg
PCBs Total PCBs	ND

SB158-11	9/27/2011 (0.5-2.5) ft BGS mg/kg
PCBs Total PCBs	ND

SB160-11	9/27/2011 (0.5-2.5) ft BGS mg/kg	9/27/2011 (2.5-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

SB159-11	9/27/2011 (0.6-2.6) ft BGS mg/kg	9/27/2011 (2.6-4) ft BGS mg/kg	9/27/2011 (4-6) ft BGS mg/kg
PCBs Total PCBs	1.1	ND	ND

SB124-11	2/21/2011 (1-3) ft BGS mg/kg	2/21/2011 (17-19) ft BGS mg/kg
PCBs Total PCBs	1.3	ND

SB186-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	0.11 J	0.047 J/0.05 J

SB185-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

SB184-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

O P Q R

49 5/8 49 50 51 52 1/4

SB161-11 SB187-12 SB181-12 SB124-11 SB157-11 SB158-11 SB160-11 SB186-12 SB159-11 SB185-12 SB184-12

LEGEND

■ SB156-11 SOIL BORING LOCATION

EXCEEDS CLEANUP LEVEL OF 1pp□

ND PCBs NOT DETECTED ABOVE LABORATORY REPORTING LIMIT

PCB MATERIALS TO BE EXCAVATED AND DISPOSED OFF-SITE

AREA DELINEATED BY 3-METER GRID

AREA OF PARTIAL SOIL COLLAPSE BENEATH SLAB DUE TO ADJACENT SLAB REMOVAL/ EXCAVATION

DRAFT

figure 3.2

PCB AREA NO. 2 - DELINEATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

CRA

SAMPLE SUMMARY
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*			*QC Sample*	*Analysis*
2/21/2011	SO-17360-022111-DR-105	SB124-11	Soil	1	to	3		PCBs
2/21/2011	SO-17360-022111-DR-106	SB124-11	Soil	17	to	19		PCBs
2/28/2011	SO-17360-022811-DR-134	SB61-11	Soil	1	to	3		PCBs
2/28/2011	SO-17360-022811-DR-135	SB61-11	Soil	18	to	20		PCBs
9/27/2011	S-17360-092711-EM-009	SB159-11	Soil	0.6	to	2.6		PCBs
9/27/2011	S-17360-092711-EM-010	SB159-11	Soil	2.6	to	4		PCBs
9/27/2011	S-17360-092711-EM-011	SB159-11	Soil	4	to	6		PCBs
9/27/2011	SO-17360-092711-EM-012	SB159-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-013	SB159-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-014	SB158-11	Soil	0.5	to	2.5		PCBs
9/27/2011	SO-17360-092711-EM-015	SB158-11	Soil	2.5	to	4		PCBs[1]
9/27/2011	SO-17360-092711-EM-016	SB158-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-017	SB158-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-018	SB158-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-019	SB161-11	Soil	0.5	to	2.5		PCBs
9/27/2011	SO-17360-092711-EM-020	SB161-11	Soil	2.5	to	4		PCBs[1]
9/27/2011	SO-17360-092711-EM-021	SB161-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-022	SB161-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-023	SB161-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-024	SB160-11	Soil	0.5	to	2.5		PCBs
9/27/2011	S-17360-092711-EM-025	SB160-11	Soil	2.5	to	4		PCBs
9/27/2011	SO-17360-092711-EM-026	SB160-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-027	SB160-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-028	SB160-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-029	SB157-11	Soil	0.7	to	2.7		PCBs
9/27/2011	SO-17360-092711-EM-030	SB157-11	Soil	2.7	to	5		PCBs[1]
9/27/2011	SO-17360-092711-EM-031	SB157-11	Soil	5	to	7		PCBs[1]
9/28/2011	S-17360-092811-EM-038	SB154-11	Soil	0.5	to	2.5		PCBs
9/28/2011	SO-17360-092811-EM-039	SB154-11	Soil	2.5	to	4		PCBs[1]
9/28/2011	SO-17360-092811-EM-040	SB154-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-041	SB154-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-042	SB154-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-043	SB156-11	Soil	0.5	to	2.5		PCBs
9/28/2011	S-17360-092811-EM-044	SB156-11	Soil	2.5	to	4		PCBs
9/28/2011	SO-17360-092811-EM-045	SB156-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-046	SB156-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-047	SB156-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-048	SB155-11	Soil	0.5	to	2.5		PCBs
9/28/2011	SO-17360-092811-EM-049	SB155-11	Soil	2.5	to	4		PCBs[1]
9/28/2011	SO-17360-092811-EM-050	SB155-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-051	SB155-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-052	SB155-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-053	SB153-11	Soil	1	to	3		PCBs
9/28/2011	SO-17360-092811-EM-054	SB153-11	Soil	3	to	5		PCBs[1]
9/28/2011	SO-17360-092811-EM-055	SB153-11	Soil	5	to	7		PCBs[1]
9/28/2011	SO-17360-092811-EM-056	SB153-11	Soil	7	to	9		PCBs[1]
9/28/2011	SO-17360-092811-EM-057	SB153-11	Soil	9	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-058	SB167-11	Soil	1.5	to	3.5		PCBs
9/28/2011	SO-17360-092811-EM-059	SB167-11	Soil	3.5	to	5.5		PCBs[1]
9/28/2011	SO-17360-092811-EM-060	SB167-11	Soil	5.5	to	7.5		PCBs[1]
9/28/2011	SO-17360-092811-EM-061	SB167-11	Soil	7.5	to	9.5		PCBs[1]
4/23/2012	SO-17360-042312-EB-001	SB186-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-002	SB186-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-003	SB186-12	Soil	2	to	4	Duplicate (-002)	PCBs
4/23/2012	SO-17360-042312-EB-004	SB186-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-005	SB186-12	Soil	4	to	6	Duplicate (-004)	PCBs[1]
4/23/2012	SO-17360-042312-EB-006	SB186-12	Soil	6	to	8	MS/MSD	PCBs[1]
4/23/2012	SO-17360-042312-EB-007	SB186-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-008	SB185-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-009	SB185-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-010	SB185-12	Soil	4	to	6		PCBs[1]

SAMPLE SUMMARY
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*			*QC Sample*	*Analysis*
4/23/2012	SO-17360-042312-EB-011	SB185-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-012	SB185-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-013	SB184-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-014	SB184-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-015	SB184-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-016	SB184-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-017	SB184-12	Soil	6	to	8	Duplicate (-016)	PCBs[1]
4/23/2012	SO-17360-042312-EB-018	SB184-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-019	SB187-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-020	SB187-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-021	SB187-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-022	SB187-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-023	SB187-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-024	SB181-12	Soil	0	to	2	MS/MSD	PCBs
4/23/2012	SO-17360-042312-EB-025	SB181-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-026	SB181-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-027	SB181-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-028	SB181-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-052	SB176-12	Soil	1.5	to	2	MS/MSD	PCBs
4/24/2012	S-17360-042412-EM-053	SB176-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-054	SB176-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-055	SB176-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-056	SB176-12	Soil	8	to	10	MS/MSD	PCBs[1]
4/24/2012	S-17360-042412-EM-057	SB175-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-058	SB175-12	Soil	0	to	2	Duplicate (-057)	PCBs
4/24/2012	S-17360-042412-EM-059	SB175-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-060	SB175-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-061	SB175-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-062	SB175-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-063	SB175-12	Soil	8	to	10	Duplicate (-062)	PCBs[1]
4/24/2012	S-17360-042412-EM-064	SB174-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-065	SB174-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-066	SB174-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-067	SB174-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-068	SB174-12	Soil	4	to	6	Duplicate (-067)	PCBs[1]
4/24/2012	S-17360-042412-EM-069	SB174-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-070	SB174-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-071	SB173-12	Soil	2	to	4		PCBs

Notes:

PCBs - Polychlorinated Biphenyls

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

[1] - The sample was submitted to the analytical laboratory on hold, but not analyzed.

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB61-11*	*SB61-11*	*SB153-11*	*SB154-11*	*SB155-11*	*SB156-11*	*SB156-11*
Sample Identification		Toxic	*SO-17360-022811-DR-134*	*SO-17360-022811-DR-135*	*S-17360-092811-EM-053*	*S-17360-092811-EM-038*	*S-17360-092811-EM-048*	*S-17360-092811-EM-043*	*S-17360-092811-EM-044*
Sample Date		Substances	*2/28/2011*	*2/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*
Sample Depth		Control	*(1-3) ft BGS*	*(18-20) ft BGS*	*(1-3) ft BGS*	*(0.5-2.5) ft BGS*	*(0.5-2.5) ft BGS*	*(0.5-2.5) ft BGS*	*(2.5-4) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1221 (PCB-1221)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1232 (PCB-1232)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1242 (PCB-1242)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1248 (PCB-1248)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1254 (PCB-1254)	ug/kg	--	4400	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1260 (PCB-1260)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Total PCBs	ug/kg	1000	**4400**	ND	ND	ND	ND	ND	ND

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB167-11*	*SB173-12*	*SB174-12*	*SB174-12*	*SB174-12*	*SB175-12*	*SB175-12*
Sample Identification		Toxic	*S-17360-092811-EM-058*	*S-17360-042412-EM-071*	*S-17360-042412-EM-064*	*S-17360-042412-EM-065*	*S-17360-042412-EM-066*	*S-17360-042412-EM-057*	*S-17360-042412-EM-058*
Sample Date		Substances	*9/28/2011*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*
Sample Depth		Control	*(1.5-3.5) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*
Sample Type		Act [1]				*Duplicate*			*Duplicate*
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1221 (PCB-1221)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1232 (PCB-1232)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1242 (PCB-1242)	ug/kg	--	35 U	27 J	350 U	350 U	350 U	350 U	350 U
Aroclor-1248 (PCB-1248)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1254 (PCB-1254)	ug/kg	--	35 U	180 J	350 U	350 U	350 U	350 U	350 U
Aroclor-1260 (PCB-1260)	ug/kg	--	35 U	130 J	350 U	350 U	350 U	350 U	350 U
Total PCBs	ug/kg	1000	ND	337 J	ND	ND	ND	ND	ND

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

: Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB175-12*	*SB176-12*	*SB176-12*
Sample Identification		Toxic	*S-17360-042412-EM-059*	*S-17360-042412-EM-052*	*S-17360-042412-EM-053*
Sample Date		Substances	*4/24/2012*	*4/24/2012*	*4/24/2012*
Sample Depth		Control	*(2-4) ft BGS*	*(1.5-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]			
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	--	340 U	350 U	350 U
Aroclor-1221 (PCB-1221)	ug/kg	--	340 U	350 U	350 U
Aroclor-1232 (PCB-1232)	ug/kg	--	340 U	350 U	350 U
Aroclor-1242 (PCB-1242)	ug/kg	--	340 U	14 J	350 U
Aroclor-1248 (PCB-1248)	ug/kg	--	340 U	350 U	350 U
Aroclor-1254 (PCB-1254)	ug/kg	--	340 U	350 U	350 U
Aroclor-1260 (PCB-1260)	ug/kg	--	340 U	51 J	24 J
Total PCBs	ug/kg	1000	ND	65 J	24 J

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

: Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB124-11*	*SB124-11*	*SB157-11*	*SB158-11*	*SB159-11*	*SB159-11*	*SB159-11*
Sample Identification		Toxic	*SO-17360-022111-DR-105*	*SO-17360-022111-DR-106*	*S-17360-092711-EM-029*	*S-17360-092711-EM-014*	*S-17360-092711-EM-009*	*S-17360-092711-EM-010*	*S-17360-092711-EM-011*
Sample Date		Substances	*2/21/2011*	*2/21/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*
Sample Depth		Control	*(1-3) ft BGS*	*(17-19) ft BGS*	*(0.7-2.7) ft BGS*	*(0.5-2.5) ft BGS*	*(0.6-2.6) ft BGS*	*(2.6-4) ft BGS*	*(4-6) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1221 (PCB-1221)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1232 (PCB-1232)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1242 (PCB-1242)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1248 (PCB-1248)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1254 (PCB-1254)	ug/kg	--	1300	270 U	34 U	33 U	1100	34 U	34 U
Aroclor-1260 (PCB-1260)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Total PCBs	ug/kg	1000	**1300**	ND	ND	ND	**1100**	ND	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB160-11*	*SB160-11*	*SB161-11*	*SB181-12*	*SB181-12*	*SB184-12*	*SB184-12*
Sample Identification		Toxic	*S-17360-092711-EM-024*	*S-17360-092711-EM-025*	*S-17360-092711-EM-019*	*SO-17360-042312-EB-024*	*SO-17360-042312-EB-025*	*SO-17360-042312-EB-013*	*SO-17360-042312-EB-014*
Sample Date		Substances	*9/27/2011*	*9/27/2011*	*9/27/2011*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*
Sample Depth		Control	*(0.5-2.5) ft BGS*	*(2.5-4) ft BGS*	*(0.5-2.5) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1260 (PCB-1260)	ug/kg	--	34 U	34 U	34 U	350 U	5.4 J	350 U	340 U
Total PCBs	ug/kg	1000	ND	ND	ND	ND	5.4 J	ND	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Wa
for High Occupancy Areas without further conditions pe
40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB185-12*	*SB185-12*	*SB186-12*	*SB186-12*	*SB186-12*	*SB187-12*	*SB187-12*
Sample Identification		Toxic	*SO-17360-042312-EB-008*	*SO-17360-042312-EB-009*	*SO-17360-042312-EB-001*	*SO-17360-042312-EB-002*	*SO-17360-042312-EB-003*	*SO-17360-042312-EB-019*	*SO-17360-042312-EB-020*
Sample Date		Substances	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*
Sample Depth		Control	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]					*Duplicate*		
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	--	350 U	350 U	110 J	50 J	47 J	150 J	340 U
Aroclor-1260 (PCB-1260)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Total PCBs	ug/kg	1000	ND	ND	110 J	50 J	47 J	150 J	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Wa
for High Occupancy Areas without further conditions pe
40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

APPENDIX A

STRATIGRAPHIC SOIL BORING LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB124-11
DATE COMPLETED: February 21, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510664.87
EASTING: 12773559.48
GROUND SURFACE 681.07

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.27						
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1-3' -105				0.1
				1MC		80		
4	- fine grained, light brown at 3.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					0.2
6								0.2
8				2MC		85		0.2
10	SP-SAND (native), trace fine gravel, compact, fine to coarse grained, poorly graded, medium brown, moist	672.07						
	- light brown at 9.5ft BGS							0.3
12	- with fine to coarse gravel at 10.0ft BGS	669.07		3MC		70		
14	SP/GP-SAND AND GRAVEL, compact, fine to coarse sand, fine gravel, poorly graded, medium brown, moist							0.2
16	SP-SAND, with fine to coarse gravel, compact, fine to coarse grained, poorly graded, light brown, moist	666.07						0.2
	- trace fine gravel at 16.0ft BGS			4MC		70		
18				17-19' -106				0.2
20	- fine grained, no gravel, wet at 19.5ft BGS - with fine to coarse gravel, fine to coarse grained at 20.0ft BGS							
22	- trace fine gravel, fine to medium grained, trace coarse grained at 21.0ft BGS							
24								
26	END OF BOREHOLE @ 25.0ft BGS	656.07						
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB61-11
DATE COMPLETED: February 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 511113.56
EASTING: 12773581.31

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.06					
	WOOD BLOCK FLOOR	680.86					
	CONCRETE	680.36					
2	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, brown, moist - trace fine gravel, dark brown at 1.9ft BGS		1-3' -134				0.2
			1MC		85		
4	- orange brown at 3.0ft BGS						0.2
6	- light brown at 6.0ft BGS						0.2
			2MC		75		
8	- fine to medium grained, trace coarse grained, brown at 8.1ft BGS						0.2
10							0.2
		669.56					
12	SP-SAND (native), trace fine gravel, compact, fine to medium grained, trace coarse grained, poorly graded, tan/beige, moist		3MC		70		
14	- with fine gravel at 13.5ft BGS						0.3
16	- fine grained, trace medium to coarse grained at 16.1ft BGS						0.5
18	- fine to medium grained, trace coarse grained, trace fine to coarse gravel at 17.3ft BGS - with fine gravel, fine to coarse grained at 18.4ft BGS		4MC		90		
			18-20' -135				0.5
20	- trace fine gravel at 18.9ft BGS - wet at 20.0ft BGS						0.4
22		658.76	5MC		80		
	SM-SAND, some silt, compact, fine grained, poorly graded, brown, wet						0.5
24		657.16					
	SP-SAND, trace silt, with fine gravel, compact, fine to coarse grained, poorly graded, brown, wet	656.06					
26	END OF BOREHOLE @ 25.0ft BGS						
28	NOTE: ABANDONED FOLLOWING SAMPLE COLLECTION AND BACKFILLED WITH BENTONITE CHIPS						
30							
32							
34							

TEMP MONITORING WELL

WELL DETAILS
Screened interval:
661.06 to 656.06ft
20.00 to 25.00ft BGS
Length: 5ft

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB153-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511113.46
EASTING: 12773571.84

GROUND SURFACE 681.08

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0	CONCRETE	680.28						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, brown, moist - light tan at 2.9ft BGS - dark brown at 3.5ft BGS - orange brown at 4.4ft BGS		BACKFILLED WITH BENTONITE CHIPS	1-3' -053 1GP		60		0.1
4				3-5' -054				2.0
6				5-7' -055				0.0
8				2GP 7-9' -056		65		0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.08		9-10' -057				
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB154-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.58
EASTING: 12773581.62
GROUND SURFACE 681.06

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.56						
2	SP-SAND, trace silt and fine gravel, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -038				0.0
				1GP		50		
4	- brown from 3.5 to 3.9ft BGS			2.5-4' -039				0.0
			BACKFILLED WITH BENTONITE CHIPS	4-6' -040				
6								0.0
				6-8' -041 2GP		60		
8								
	- with medium gravel at 9.1ft BGS			8-10' -042				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.06						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB155-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511102.95
EASTING: 12773581.65

GROUND SURFACE 681.03

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.53		0.5-2.5' -048				0.0
2	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist			1GP 2.5-4' -049		50		0.1
4	- orange brown from 3.9 to 4.0ft BGS - orange brown at 4.1ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -050				0.0
6				6-8' -051 2GP		70		
8				8-10' -052				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.03						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB156-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511112.63
EASTING: 12773581.4
GROUND SURFACE 681.04

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.54						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, brown, moist			0.5-2.5' -043				1.2
				1GP		50		
4	- orange brown at 3.8ft BGS			2.5-4' -044				0.0
			BACKFILLED WITH BENTONITE CHIPS	4-6' -045				
6								0.0
				6-8' -046				
8				2GP		70		
				8-10' -047				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.04						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB157-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510674.12
EASTING: 12773559.28

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.07						
0	CONCRETE	680.37						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.7-2.7' -029 1GP		50		0.0
4	- few medium gravel from 4.0 to 4.5ft BGS			2.7-5' -030				0.0
6			BACKFILLED WITH BENTONITE CHIPS	2GP 5-7' -031		60		0.0
7	- REFUSAL at 7.0ft BGS	674.07						
8	END OF BOREHOLE @ 7.0ft BGS							

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB158-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510654.99
EASTING: 12773560.11

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.04						
0	CONCRETE	680.54						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -014				0.0
				1GP		60		
4	- black, potential fly-ash, lightweight from 3.5 to 3.7ft BGS			2.5-4' -015				0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -016				0.0
8				6-8' -017 2GP		70		
10	END OF BOREHOLE @ 10.0ft BGS	671.04		8-10' -018				0.0
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34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB159-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.63
EASTING: 12773549.59
GROUND SURFACE ELEV. 681.05 ft

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.45						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist - rock debris from 2.1 to 2.3ft BGS			0.6-2.6' -009 1GP 2.6-4' -010		70		0.0 0.0
4	- trace fine gravel from 4.1 to 4.4ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -011				
6				6-8' -012 2GP		60		0.0
8				8-10' -013				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.05						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB160-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.8
EASTING: 12773559.48
GROUND SURFACE ELEV. ft: 681.04

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.54						
	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -024				0.0
2				1GP		70		
	- black, potential fly-ash, lightweight from 3.5 to 3.6ft BGS			2.5-4' -025				0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -026				
6								0.0
				6-8' -027 2GP		65		
8								
				8-10' -028				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.04						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB161-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.98
EASTING: 12773570.64

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.09						
0	CONCRETE	680.59						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -019				0.0
				1GP		75		
4	- black, potential fly-ash, lightweight from 3.5 to 3.7ft BGS			2.5-4' -020				0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -021				0.0
8				6-8' -022 2GP		80		
10	END OF BOREHOLE @ 10.0ft BGS	671.09		8-10' -023				0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB173-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 511103.6 EASTING: 12773588.4 GROUND SURFACE	681.10						
0	CONCRETE							0.0
2	SP-SAND, trace fine gravel and silt, compact fine grained, poorly graded, dark brown, moist	679.60	BACKFILLED WITH BENTONITE CHIPS	1RS (2-4' -071)				
4	- REFUSAL at 4.0ft BGS END OF BOREHOLE @ 4.0ft BGS	677.10						0.0
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB174-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511103.5
EASTING: 12773571.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	680.80						
0	CONCRETE	680.30	BACKFILLED WITH BENTONITE CHIPS	0-2' -064/ 065				0.0
2	SP-SAND, trace fine gravel and silt, compact, fine grained, poorly graded, brown, moist - 1" thick piece of slag at 1.8ft BGS			1RS 2-4' -066				0.0
4	- no gravel, light brown at 4.7ft BGS			4-6' -067/ 068				0.0
6				6-8' -069 2RS				0.0
8	- with fine gravel at 9.3ft BGS			8-10' -070				
10	END OF BOREHOLE @ 10.0ft BGS	670.80						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB175-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.6
EASTING: 12773571.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50						
2	SP-SAND, trace fine gravel and silt, compact, fine grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	0-2' -057/ 058				0.0
4	- no gravel, light brown at 4.0ft BGS			1RS 2-4' -059				0.0
6				4-6' -060				0.0
8				6-8' -061 2RS				0.0
10	- trace gravel, brown at 9.8ft BGS	671.00		8-10' -062/ 063				
	END OF BOREHOLE @ 10.0ft BGS							
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB176-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.5
EASTING: 12773591.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.40						
0	CONCRETE							
	SP-SAND, with fine gravel, trace silt, compact, fine grained, poorly graded, brown, moist	679.90	BACKFILLED WITH BENTONITE CHIPS	1.5-2' -052				0.0
2	- shards of glass at 2.8ft BGS			1RS 2-4' -053				
4				4-6' -054				0.0
6								0.0
	- 0.03" small black slag seam at 7.2ft BGS			6-8' -055 2RS				
8								0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.40		8-10' -056				
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB181-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510654.8
EASTING: 12773569.5

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -024				0.1
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, dark brown, moist - trace cinders and coarse gravel at 2.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -025		75		0.2
4	- 6" layer of slag, cinders, coal fragments, black at 3.6ft BGS - light brown at 4.0ft BGS			4-6' -026				0.3
6				6-8' -027 2DP		60		0.1
8				8-10' -028				0.2
10	- trace silt at 9.5ft BGS END OF BOREHOLE @ 10.0ft BGS	671.00						
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB184-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510664.8
EASTING: 12773539.5

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -013				0.1
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - dark brown at 2.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -014		60		0.1
4	- trace coarse gravel, light brown at 3.5ft BGS - 2.5" seam of slag, cinders, coal fragments, black at 4.0ft BGS			4-6' -015				0.7
6								
8	- trace silt at 7.5ft BGS			6-8' -016/ 017' 2DP		75		0.3
10	END OF BOREHOLE @ 10.0ft BGS	671.00		8-10' -018				0.2
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB185-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773539.4
GROUND SURFACE ELEV. ft: 681.10

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.60		0-2' -008				0.2
2	SP-SAND, trace fine and coarse gravel, compact, fine grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -009		60		0.2
4	- trace coal fragments at 3.0ft BGS - light brown at 4.0ft BGS			4-6' -010				0.1
6	- brown at 5.0ft BGS - trace cinders, slag, coal fragments at 6.0ft BGS			6-8' -011 2DP		75		0.8
8	- trace silt, light brown at 6.5ft BGS			8-10' -012				0.3
10	END OF BOREHOLE @ 10.0ft BGS	671.10						
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34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB186-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773549.4

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -001				0.2
2	SP-SAND, fine and coarse gravel, compact, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -002/ 003		25		0.3
4	- dark brown from 4.5 to 5.0ft BGS			4-6' -004/ 005				0.7
6				6-8' -006 2DP		25		0.4
8	- trace coal fragments, dark brown and black coal smears, possible fly ash at 7.5ft BGS - light brown at 8.0ft BGS			8-10' -007				0.1
10	END OF BOREHOLE @ 10.0ft BGS	671.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB187-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773569.5

GROUND SURFACE 681.00

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.50	BACKFILLED WITH BENTONITE CHIPS	0-2' -019				0.2
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - trace cinders and slag at 2.5ft BGS - 1" seam of black slag, coal fragments and cinders at 3.0ft BGS - 3" seam of black slag, coal fragments and cinders at 3.5ft BGS - light brown at 3.7ft BGS - brown at 5.0ft BGS			1DP 2-4' -020		85		0.5
4				4-6' -021				0.3
6				6-8' -022 2DP		50		0.0
8				8-10' -023				0.1
10	END OF BOREHOLE @ 10.0ft BGS	671.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

Appendix B

Soil Containing PCB Cleanup Completion Summary Report

SOIL CONTAINING PCB CLEANUP COMPLETION SUMMARY REPORT

FORMER GRAND RAPIDS METAL PLANT
300 36th STREET SW
WYOMING, MICHIGAN

DISCLAIMER:
SOME FORMATTING CHANGES MAY HAVE OCCURRED WHEN THE ORIGINAL DOCUMENT WAS PRINTED TO PDF; HOWEVER, THE ORIGINAL CONTENT REMAINS UNCHANGED.

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MAY 2013
REF. NO. 017360 (30)

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(Following Text)

APPENDIX A SELF-IMPLEMENTING PLAN

APPENDIX B WASTE DISPOSAL DOCUMENTATION

1.0 INTRODUCTION /APPLICABILITY

Conestoga-Rovers & Associates (CRA) has prepared this Soil Containing Polychlorinated Biphenyl (PCB) Cleanup Completion Summary Report (Report) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The Site location is presented on Figure 1.1. A Site Plan is presented on Figure 1.2.

A Self-Implementing Plan (SIP) was prepared for PCB Area Nos. 1 and 2 and submitted to the United States Environmental Protection Agency (U.S. EPA) – Region 5, the Michigan Department of Environmental Quality (MDEQ), and the Kent County Health Department (KCHD) on June 7, 2012 in accordance with the procedures set forth in 40 Code of Federal Regulations (CFR) 761.61(a) of the Toxic Substances Control Act (TSCA) regarding the characterization and remediation of polychlorinated biphenyl (PCB) remediation waste. U.S. EPA conditionally approved the SIP in correspondence dated August 6, 2012. This Report has been prepared for submittal to the United States Environmental Protection Agency (U.S. EPA) – Region 5 in accordance with Condition No. 3 specified in U.S. EPA's August 6, 2012 approval of the SIP. A copy of the approved SIP is presented in Appendix A.

General Motors Corporation (GMC) initiated automotive manufacturing operations at the Site in 1936. Operations ceased at the Site on June 30, 2010. GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC) retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites formerly owned by MLC, including the Site. The Site was sold to Thunder Ventures, who then transferred the property to the City of Wyoming Brownfield Redevelopment Authority (WBRA) on June 28, 2011; however, RACER Trust retains certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC.

In 2012, the Site underwent redevelopment activities including decommissioning, demolition, and property re-grading by contractors on behalf of Thunder Ventures. The majority of the historical structures at the Site were decommissioned and demolished, and the Site is currently being marketed for future redevelopment.

Based on discussions with representatives of the WBRA, PCB Area Nos. 1 and 2 may be utilized in a manner in the future that would meet the definition of a High Occupancy Area under 40 CFR 761. The scope of the June 7, 2012 SIP was limited to specific subsurface areas of the Site only, identified as PCB Area Nos. 1 and 2. Additional areas where PCBs were detected in soil above the High Occupancy Area Cleanup Level of 1 part per million (ppm)/1 milligram per kilogram (mg/kg) for bulk remediation waste (without further conditions) are present at the Site outside the former Main Manufacturing Building footprint. These areas were not addressed in the SIP and will be further evaluated and addressed, as applicable, in accordance with 40 CFR 761.61 at a later date.

2.0 SITE CHARACTERIZATION

Site characterization was completed prior to removal activities as presented in the approved SIP. A copy of the SIP is presented in Appendix A.

3.0 NOTIFICATION AND CERTIFICATION

The SIP was filed with the U.S. EPA, MDEQ, and KCHD in accordance with 40 CFR 761(a)(3)(i) on June 7, 2012, which was greater than 30 days prior to the cleanup initiation date of August 22, 2012.

4.0 CLEANUP LEVELS

As discussed in Section 1.0 and in the SIP, the cleanup level utilized for this work was the High Occupancy Area Cleanup Level of 1 ppm/1 mg/kg for bulk remediation waste (without further conditions) in 40 CFR 761(a)(4)(i)(A).

5.0 SITE CLEANUP

The bulk PCB remediation waste removal activities were conducted on August 22, 2012. Additional details on the specific activities performed are presented below.

5.1 SOIL EXCAVATION ACTIVITIES

Prior to mobilization, the areas in which removal activities were required were identified by locating previously surveyed boring locations. The prior boring locations were utilized to mark the extents of the anticipated excavation boundaries.

Site preparation activities included constructing haul roads for waste transportation vehicles, construction of a temporary decontamination pad, and demarcation of excavation areas within their current demolition work areas.

Soils containing concentrations of PCBs greater than 1 ppm were excavated using a hydraulic excavator. Figures 5.1 and 5.2 show the final excavation extents of PCB Area No. 1 and PCB Area No. 2, respectively. Excavated soils were transferred directly from the excavation into haul trucks for transportation to the landfill. The trucks were equipped with covers to prevent the loss of any soils during transportation.

A total of approximately 45 tons or 30 cubic yards (cy) (based on a conversion of 1.5 tons per cy) of soil containing PCBs were removed from PCB Area No. 1. A total of approximately 121.5 tons or 81 cy of soil containing PCBs were removed from PCB Area No. 2. The soil removed from PCB Area No. 2 also included the soil pile adjacent to the excavation area that was generated by on-Site demolition activities. All soils were transported to and disposed of at Waste Management, Inc.'s Autumn Hills Landfill in Zeeland, Michigan, in accordance with 40 CFR 761.61(a)(5).

5.2 SOIL EXCAVATION BACKFILLING ACTIVITIES

Upon receipt of the analytical results for the verification soil samples indicating that PCBs were not detected at a concentration above 1 ppm (see Section 6.0), the excavations were backfilled. Crushed concrete fill generated on-Site during the demolition activities was utilized to backfill each excavation cavity. All final grading and compaction of fill materials was completed as part of the decommissioning and demolition scope of work.

5.3 DECONTAMINATION

Decontamination was completed in accordance with the self-implementing procedures described in 40 CFR 761.79(c)(2). Equipment which contacted PCB-impacted material, including the excavator and non-disposable sampling equipment, was decontaminated with a high-pressure steam cleaner and a detergent solution. Decontamination materials were disposed as described in Section 5.4.

5.4 TRANSPORTATION AND OFF-SITE DISPOSAL

Transportation and disposal were required for the waste stream in accordance with 40 CFR 761.61(a)(5)(v)(A) for bulk PCB remediation waste containing PCBs less than 50 ppm. A minimum 15-day notification was provided to the disposal facility prior to the first shipment of the waste.

Excavated materials were direct-loaded into trucks. Water generated during decontamination activities was left in the decontamination pad to allow for complete evaporation. The decontamination pad materials were stored in a 55-gallon drum that contained soil cuttings from the SIP investigation sampling. The soils, decontamination pad materials, and personal protective equipment (PPE) generated during implementation of the cleanup were disposed of at Autumn Hills Landfill in Zeeland, Michigan.

The waste manifests for the soils and other materials were prepared in accordance with 40 CFR 761 Subpart K *PCB Waste Disposal Records and Reports*. A copy of the disposal documentation is presented in Appendix B.

6.0 VERIFICATION SAMPLING

Verification sampling was conducted consistent with 40 CFR 761 Subpart O "Sampling to Verify Completion of Self-Implementing Cleanup and On-Site Disposal of Bulk PCB Remediation Waste and Porous Surfaces." Table 6.1 presents a sample key for the final verification samples.

After completion of excavation activities, verification samples were collected at five-foot intervals horizontally and vertically. The soils were composited in the field and sent to the laboratory for analysis. Laboratory analytical results from the sampling after excavation activities indicated that PCBs at concentrations above 1 ppm were no longer present in any of the excavation floor and sidewalls.

Figures 6.1 and 6.2 present the verification sample locations for PCB Area No. 1 and PCB Area No. 2, respectively. Table 6.2 presents the analytical results for the final verification samples. The complete data deliverables provided by the laboratories that performed the analysis of the samples during the PCB cleanup activities are available upon request.

7.0 CAP REQUIREMENTS

A cap was not utilized as part of this cleanup.

8.0 DEED RESTRICTIONS

Deed restrictions were not utilized as part of this cleanup.

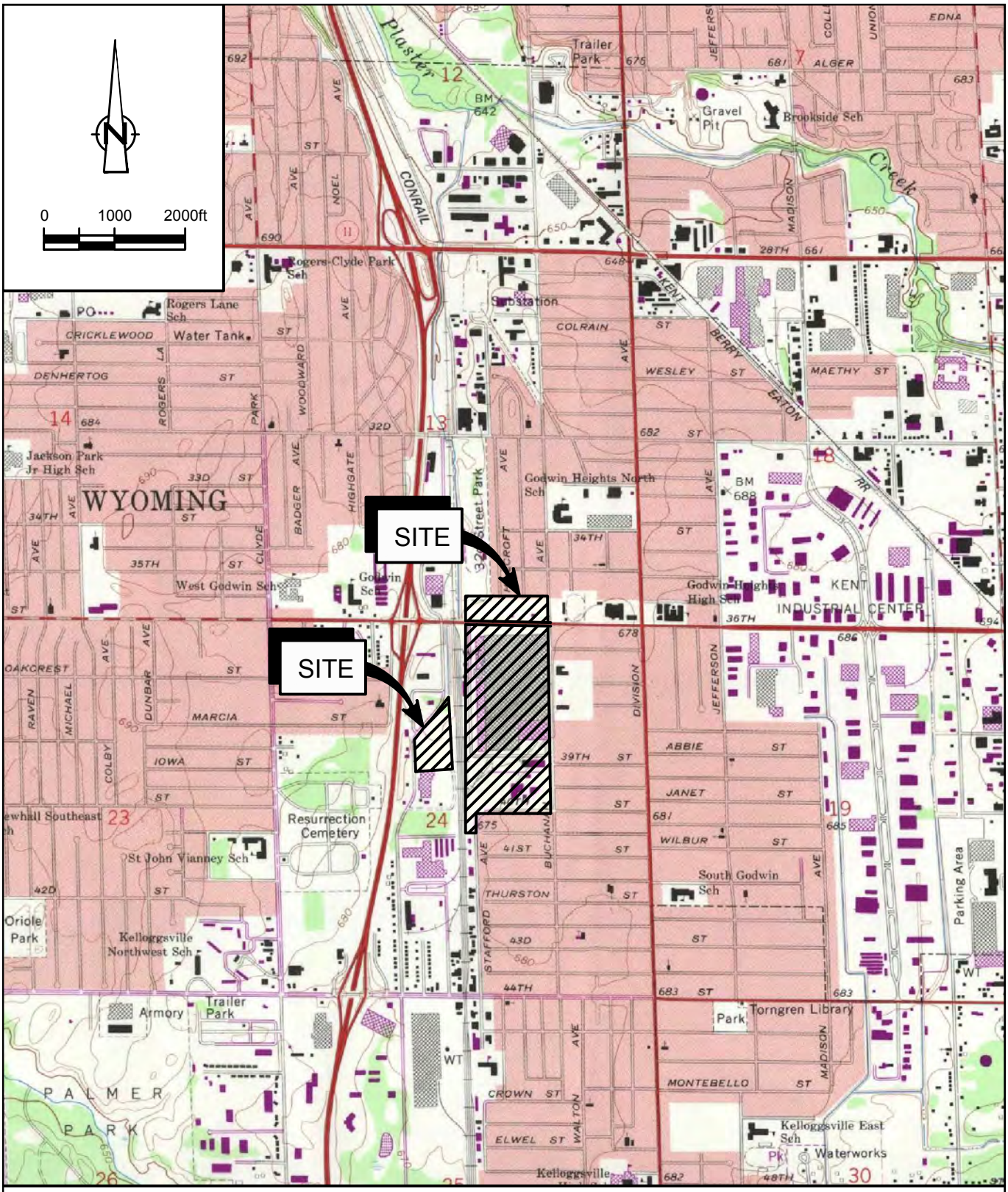
9.0 RECORDKEEPING

During completion of the cleanup activities, a logbook was maintained to document all activities completed on Site including weather, personnel participating in the cleanup activities, cleanup activities conducted, and other relevant information.

As identified in the SIP, all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrument/chemical analysis procedures used to assess or characterize the PCB contamination related to the investigation and cleanup activities will be maintained in the following location and accessible for inspection by U.S. EPA:

- Conestoga-Rovers & Associates, Inc.
  Attn: Jennifer Quigley, P.E.
  200 West Allegan Street, Suite 300
  Plainwell, Michigan 49080-1397

Records will be kept consistent with 40 CFR 761.61(a)(9).



SOURCE: USGS QUADRANGLE MAP
GRAND RAPIDS WEST, MICHIGAN

figure 1.1

SITE LOCATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(030)GN-DE001 FEB 12/2013

RESIDENTIAL

COMMERCIAL

COMMERCIAL/INDUSTRIAL

COMMERCIAL/RESIDENTIAL

RESIDENTIAL

RESIDENTIAL

BUCHANAN STREET

367TH STREET

407TH STREET

STAFFORD ORD

CLAY AVE.

PCB AREA NO. 1

PCB AREA NO. 2

FORMER MAIN MANUFACTURING BUILDING

FORMER RACK MAKE-UP BUILDING

FORMER POWER HOUSE

FORMER USED OIL AST

FORMER WWTP

FORMER PRESS STAGING BUILDING

FORMER BALER HOUSE

PUMP HOUSE

500,000 GALLON WATER STORAGE TANK

PRIMARY SWITCH HOUSE

GUARD HOUSE

TRUCK SCALE PIT

STORM SEWER PUMP HOUSE

METAL STORAGE SHED

STORM WATER RETENTION BASIN

EMPLOYEE ENTRANCE BUILDING

0 100 250ft

LEGEND

APPROXIMATE PROPERTY BOUNDARY

AREA OF PCB IMPACTED SOIL EXCAVATION

FENCE

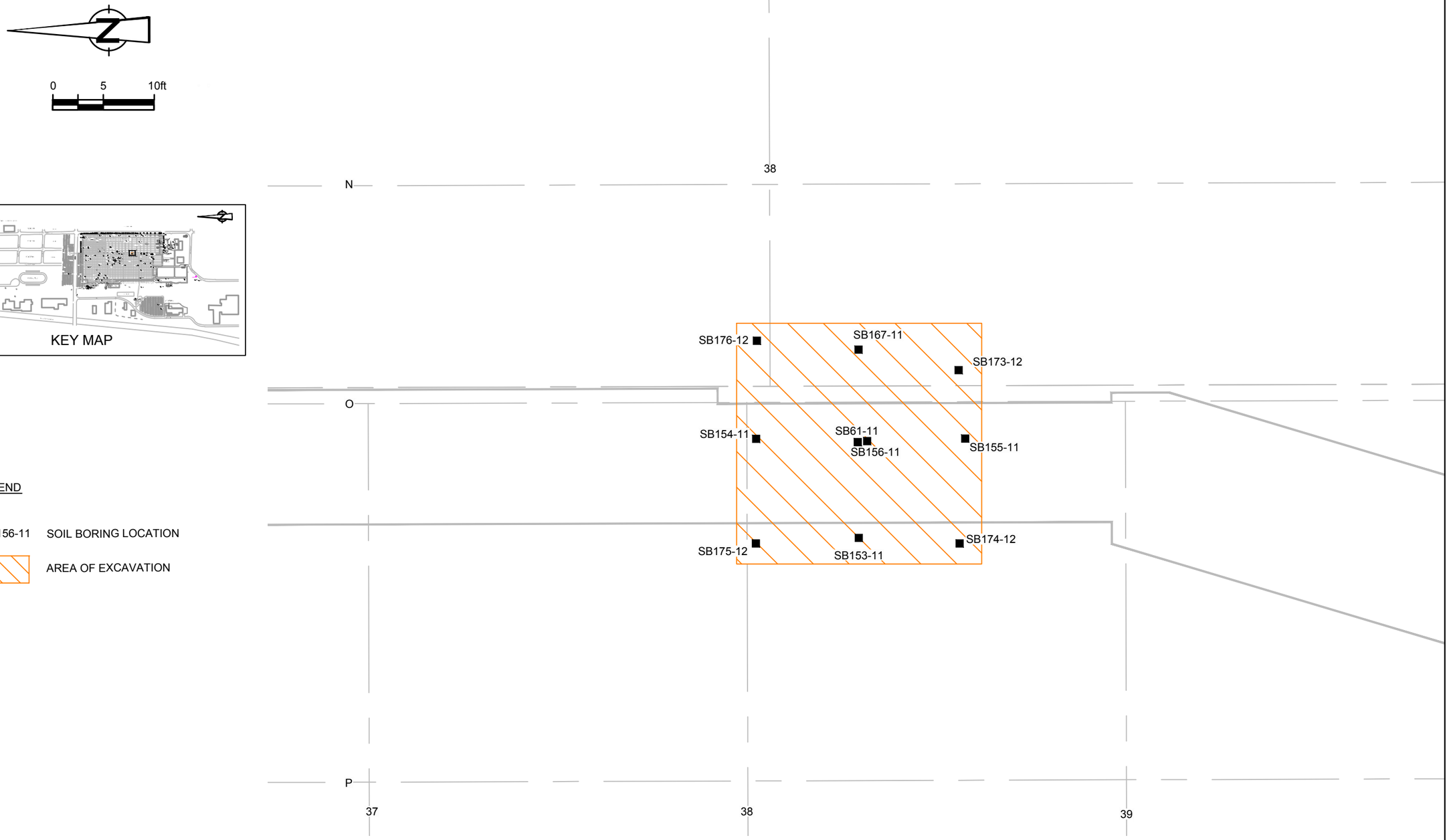
RAILROAD

COLE DRAIN

figure 1.2

SITE PLAN
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(030)GN-DE002 FEB 12/2013

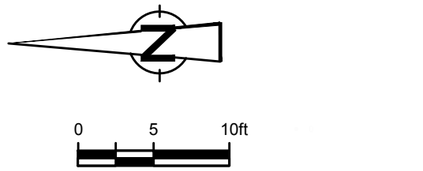


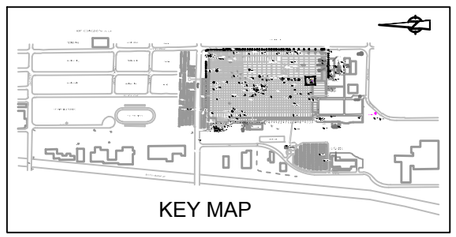
DRAFT

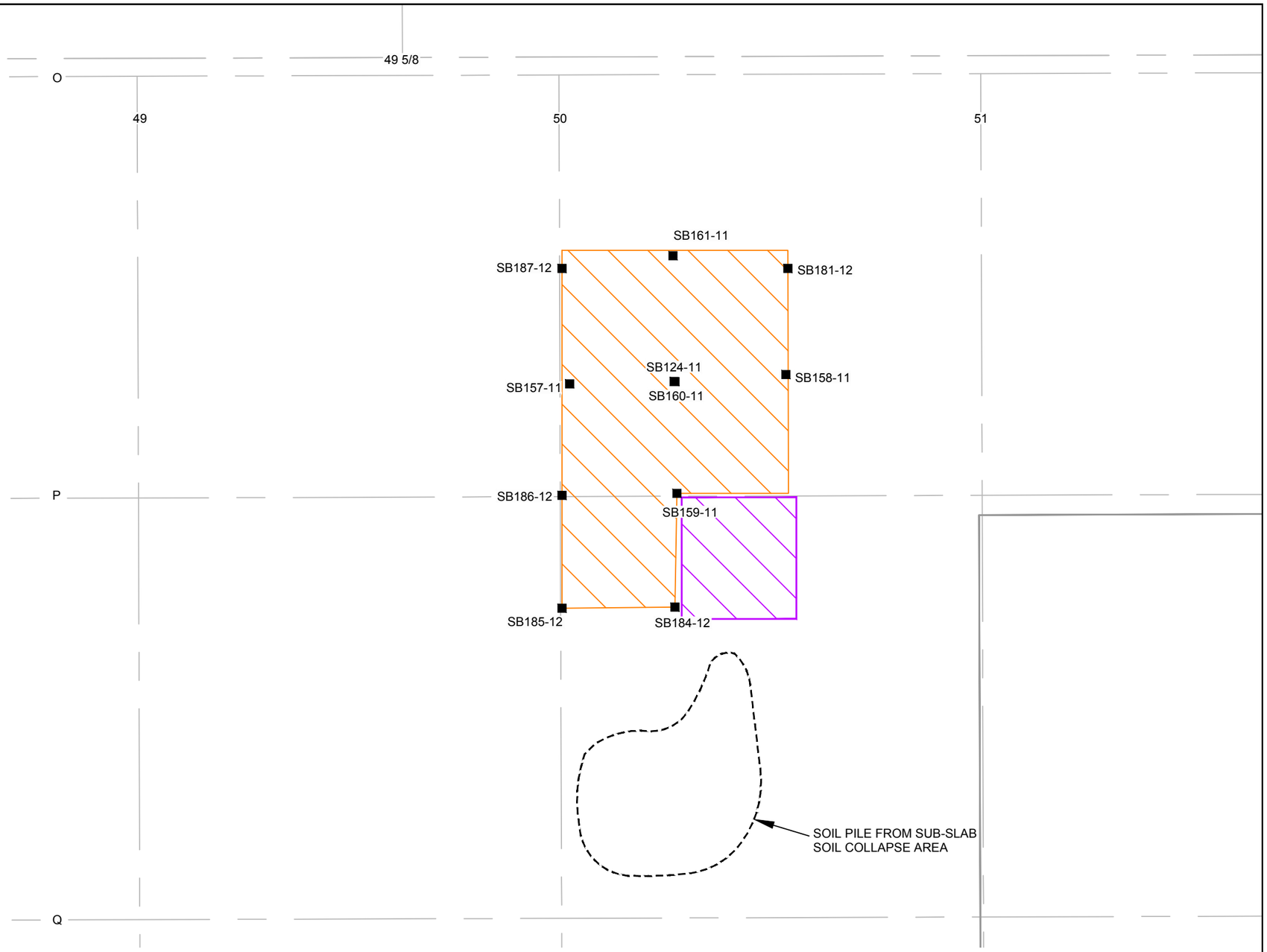
figure 5.1

PCB AREA NO. 1 - EXCAVATION AREA
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(030)GN-DE003 APR 04/2013







LEGEND

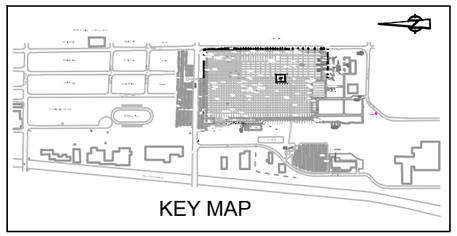
- ■ SB156-11 SOIL BORING LOCATION
- AREA OF EXCAVATION
- AREA OF PARTIAL SOIL COLLAPSE BENEATH SLAB DUE TO ADJACENT SLAB REMOVAL/ EXCAVATION

DRAFT

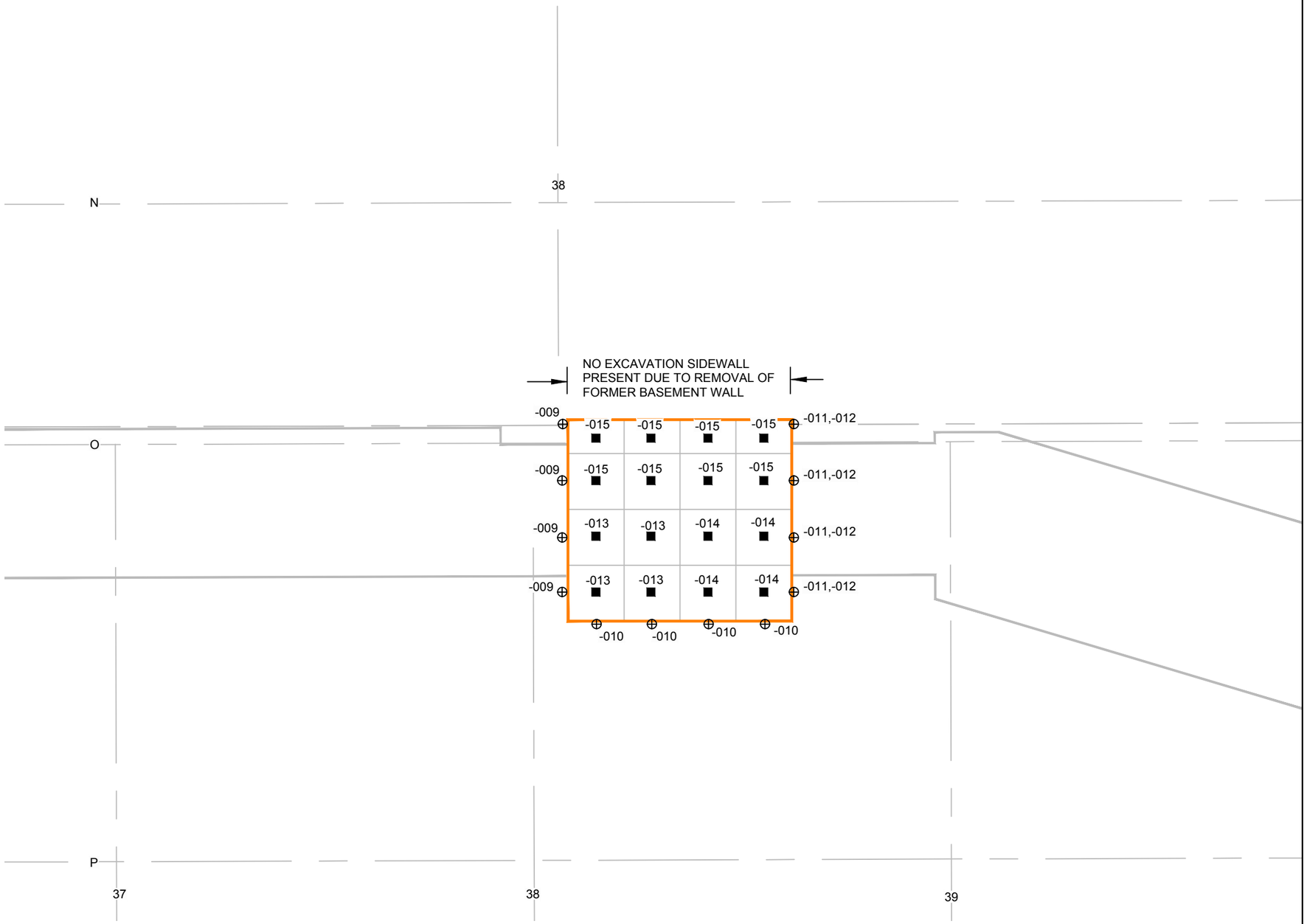
figure 5.2

PCB AREA NO. 2 - EXCAVATION AREA
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

0 5 10ft



KEY MAP



LEGEND

LIMITS OF EXCAVATION

■ COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - FLOOR

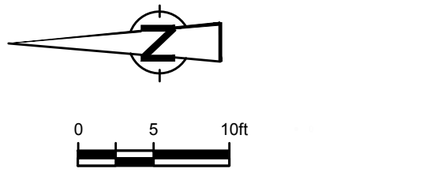
⊕ COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - SIDEWALL

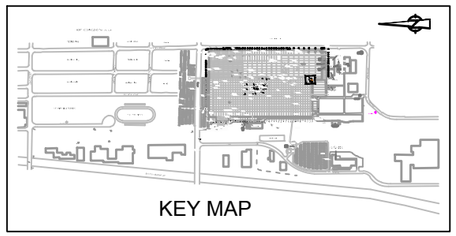
NOTE: "-009" DENOTES SUFFIX OF SAMPLE ID FOR CORRESPONDING COMPOSITE VERIFICATION SAMPLE PRESENTED IN TABLE 2.1.

DRAFT

figure 6.1

PCB AREA NO. 1 - VERIFICATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan





LEGEND

LIMIT OF EXCAVATION

■ COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - FLOOR

⊕ COMPOSITE VERIFICATION SAMPLE GRAB LOCATION - SIDEWALL

△ EX-SITU COMPOSITE SOIL SAMPLE GRAB LOCATION - SOIL PILE, Q-50

NOTE: "-009" DENOTES SUFFIX OF SAMPLE ID FOR CORRESPONDING COMPOSITE VERIFICATION SAMPLE PRESENTED IN TABLE 2.1.

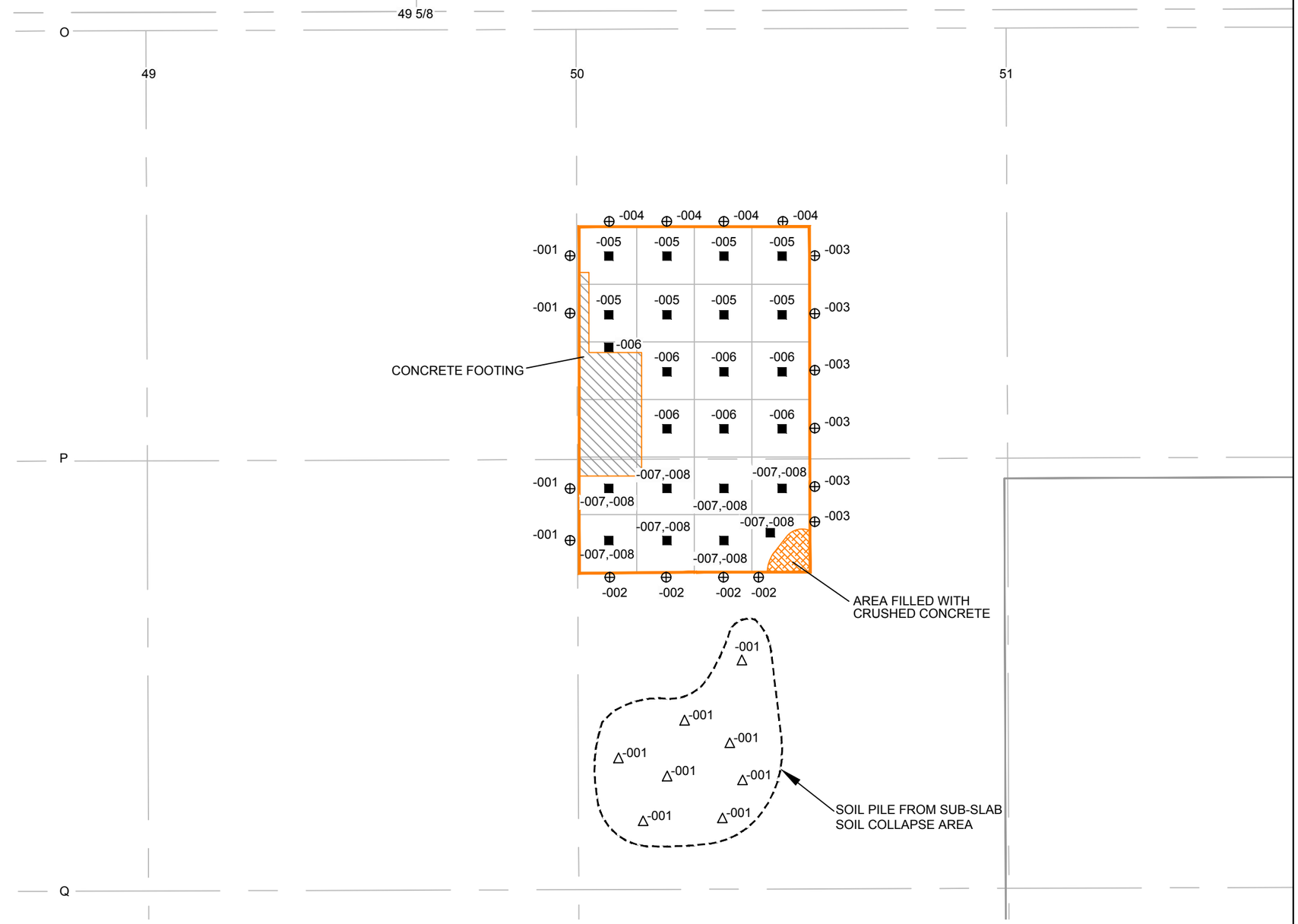


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figure 6.2

PCB AREA NO. 2 - VERIFICATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

VERIFICATION SAMPLE SUMMARY
SOIL CONTAINING PCB CLEANUP COMPLETION SUMMARY REPORT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*	*QC Sample*	*Analysis*
6/15/2012	SO-17360-061512-EB-001	PCB Area Soil Pile - Q-50	Soil	-		PCBs
8/22/2012	SO-17360-082212-EB-013	PCB Area No. 1 - Floor Composite -013	Soil	3		PCBs
8/22/2012	SO-17360-082212-EB-014	PCB Area No. 1 - Floor Composite -014	Soil	3		PCBs
8/22/2012	SO-17360-082212-EB-015	PCB Area No. 1 - Floor Composite -015	Soil	3	MS/MSD	PCBs
8/22/2012	SO-17360-082212-EB-009	PCB Area No. 1 - North Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-011	PCB Area No. 1 - South Sidewall	Soil	1.5	Duplicate	PCBs
8/22/2012	SO-17360-082212-EB-012	PCB Area No. 1 - South Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-010	PCB Area No. 1 - West Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-004	PCB Area No. 2 - East Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-005	PCB Area No. 2 - Floor Composite -005	Soil	3		PCBs
8/22/2012	SO-17360-082212-EB-006	PCB Area No. 2 - Floor Composite -006	Soil	3		PCBs
8/22/2012	SO-17360-082212-EB-007	PCB Area No. 2 - Floor Composite -007	Soil	3	Duplicate	PCBs
8/22/2012	SO-17360-082212-EB-008	PCB Area No. 2 - Floor Composite -008	Soil	3		PCBs
8/22/2012	SO-17360-082212-EB-001	PCB Area No. 2 - North Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-003	PCB Area No. 2 - South Sidewall	Soil	1.5		PCBs
8/22/2012	SO-17360-082212-EB-002	PCB Area No. 2 - West Sidewall	Soil	1.5		PCBs

Notes:
PCBs - Polychlorinated Biphenyls
QC - Quality Control
MS/MSD - Matrix Spike /Matrix Spike Duplicate

TABLE 6.2

VERFICIATION SAMPLING ANALYTICAL RESULTS
SOIL CONTAINING PCB CLEANUP COMPLETION SUMMARY REPORT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*PCB Area No. 1 North Sidewall*	*PCB Area No. 1 South Sidewall*	*PCB Area No. 1 South Sidewall*	*PCB Area No. 1 West Sidewall*	*PCB Area No. 1 Floor Composite -013*	*PCB Area No. 1 Floor Composite -014*
Sample Identification		*SO-17360-082212-EB-009*	*SO-17360-082212-EB-011*	*SO-17360-082212-EB-012*	*SO-17360-082212-EB-010*	*SO-17360-082212-EB-013*	*SO-17360-082212-EB-014*
Sample Date		*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*
Sample Type				*Duplicate*			
Sample Depth		*(1.5-) ft BGS*	*(1.5-) ft BGS*	*(1.5-) ft BGS*	*(1.5-) ft BGS*	*(3) ft BGS*	*(3) ft BGS*
	Units						
Polychlorinated Biphenyls (PCBs)							
Aroclor-1016 (PCB-1016)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1221 (PCB-1221)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1232 (PCB-1232)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1242 (PCB-1242)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1248 (PCB-1248)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1254 (PCB-1254)	ug/kg	11 J	350 U	350 U	7.7 J	24 J	15 J
Aroclor-1260 (PCB-1260)	ug/kg	350 U	350 U	350 U	350 U	350 U	350 U
Total PCBs	ug/kg	11 J	ND	ND	7.7 J	24 J	15 J

TABLE 6.2

VERFICIATION SAMPLING ANALYTICAL RESULTS
SOIL CONTAINING PCB CLEANUP COMPLETION SUMMARY REPORT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*PCB Area No. 1 Floor Composite -015*	*PCB Area No. 2 East Sidewall*	*PCB Area No. 2 North Sidewall*	*PCB Area No. 2 South Sidewall*	*PCB Area No. 2 West Sidewall*
Sample Identification		*SO-17360-082212-EB-015*	*SO-17360-082212-EB-004*	*SO-17360-082212-EB-001*	*SO-17360-082212-EB-003*	*SO-17360-082212-EB-002*
Sample Date		*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*
Sample Type						
Sample Depth		*(3) ft BGS*	*(1.5-) ft BGS*	*(1.5-) ft BGS*	*(1.5-) ft BGS*	*(1.5-) ft BGS*
	Units					
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	ug/kg	350 U	350 U	340 U	350 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	350 U	350 U	340 U	350 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	350 U	350 U	340 U	350 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	350 U	350 U	340 U	350 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	350 U	350 U	340 U	350 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	38 J	350 U	51 J	130 J	340 U
Aroclor-1260 (PCB-1260)	ug/kg	26 J	350 U	340 U	20 J	340 U
Total PCBs	ug/kg	64 J	ND	51 J	150 J	ND

TABLE 6.2

VERFICIATION SAMPLING ANALYTICAL RESULTS
SOIL CONTAINING PCB CLEANUP COMPLETION SUMMARY REPORT
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location		*PCB Area No. 2 Floor Composite -005*	*PCB Area No. 2 Floor Composite -006*	*PCB Area No. 2 Floor Composite -007*	*PCB Area No. 2 Floor Composite -008*	*PCB Area Soil Pile - Q-50*
Sample Identification		*SO-17360-082212-EB-005*	*SO-17360-082212-EB-006*	*SO-17360-082212-EB-007*	*SO-17360-082212-EB-008*	*SO-17360-061512-EB-001*
Sample Date		*8/22/2012*	*8/22/2012*	*8/22/2012*	*8/22/2012*	*6/15/2012*
Sample Type					*Duplicate*	
Sample Depth		*(3-) ft BGS*	*(3-) ft BGS*	*(3-) ft BGS*	*(3-) ft BGS*	*-*
	Units					
Polychlorinated Biphenyls (PCBs)						
Aroclor-1016 (PCB-1016)	ug/kg	350 U	350 U	350 U	340 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	350 U	350 U	350 U	340 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	350 U	350 U	350 U	340 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	350 U	350 U	350 U	340 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	350 U	350 U	350 U	340 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	13 J	37 J	12 J	7 J	340 U
Aroclor-1260 (PCB-1260)	ug/kg	350 U	350 U	350 U	340 U	340 U
Total PCBs	ug/kg	13 J	37 J	12 J	7 J	ND

APPENDIX A

SELF-IMPLEMENTING PLAN

SELF-IMPLEMENTING PLAN FOR THE REMEDIATION OF PCB-IMPACTED SOILS PURSUANT TO 40 CFR 761.61(a)

FORMER GRAND RAPIDS METAL PLANT
300 36th STREET SW
WYOMING, MICHIGAN

DISCLAIMER:
SOME FORMATTING CHANGES MAY HAVE OCCURRED WHEN THE ORIGINAL DOCUMENT WAS PRINTED TO PDF; HOWEVER, THE ORIGINAL CONTENT REMAINS UNCHANGED.

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JUNE 2012
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APPENDIX A STRATIGRAPHIC SOIL BORING LOGS

1.0 INTRODUCTION/PURPOSE OF REPORT

Conestoga-Rovers & Associates (CRA) has prepared this Self-Implementing Plan (SIP) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Grand Rapids Metal Plant property located at 300 36th Street SW in Wyoming, Michigan (Site). The Site location is presented on Figure 1.1. This SIP has been prepared for submittal to the United States Environmental Protection Agency (U.S. EPA) – Region 5, the Michigan Department of Environmental Quality (MDEQ), and the Kent County Health Department (KCHD) in accordance with the procedures set forth in 40 Code of Federal Regulations (CFR) 761.61(a) of the Toxic Substances Control Act (TSCA) regarding the characterization and remediation of polychlorinated biphenyl (PCB) remediation waste.

General Motors Corporation (GMC) initiated automotive manufacturing operations at the Site in 1936. Operations ceased at the Site on June 30, 2010. GMC filed for bankruptcy under Chapter 11 of the United States Bankruptcy Code on June 1, 2009. On July 10, 2009, pursuant to a bankruptcy court order, Motors Liquidation Company (MLC) retained ownership of the Site, and on October 20, 2010 entered into a settlement agreement with federal and state governmental authorities regarding MLC's environmental obligations at its remaining properties. According to the terms of the settlement agreement, RACER Trust became effective March 31, 2011 and interests in the Site were transferred to RACER Trust at that time to conduct, manage, and fund cleanup at the 89 sites formerly owned by MLC, including the Site. The Site was sold to the City of Wyoming Brownfield Redevelopment Authority (WBRA) on June 28, 2011; however, RACER Trust retains certain responsibilities related to subsurface contamination associated with historical operations at the Site by GMC. As such, the scope of this SIP is limited to specific subsurface areas of the Site only, as described in subsequent sections.

The Site is currently undergoing redevelopment activities including decommissioning, demolition, and property re-grading by contractors on behalf of the WBRA. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time.

This SIP is being filed with the U.S. EPA, MDEQ, and the KCHD in accordance with 40 CFR 761.61(a)(3)(i). RACER Trust respectfully requests an expedited review of this SIP in order to assist the on-going redevelopment efforts of the WBRA's contractors in the removal of the former Main Manufacturing Building slab and re-grading activities in a timely manner.

2.0 SITE BACKGROUND/HISTORY

2.1 SITE DESCRIPTION

The Site is located at 300 36th Street SW and consists of approximately 88 acres of land. The Site historically included an approximately 2 million square-foot Main Manufacturing Building and several outlying buildings and ancillary structures (Wastewater Treatment Plant [WWTP], Power House, Press Staging Building, Primary Switch House, Baler House, Rack Make-Up Building, South Fire Pump House, West Fire Pump House, Storm Sewer Pump House, Cooling Tower Pump House, Metal Storage Shed, and Guard House), asphalt and concrete-paved areas, a stormwater retention pond, and vegetated and landscaped areas. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time. Figure 2.1 presents a Site plan.

2.2 ENVIRONMENTAL SETTING

The Site is located in a mixed industrial, commercial, residential and recreational area in the City of Wyoming, Michigan with Buchanan Ave SW and mixed industrial/residential to the east, mixed recreational and residential to the north, railroad tracks and mixed commercial/industrial to the west, and 40th Street SW and residential to the south as further discussed below.

The Site is abutted to the north by Price and Company, Godwin Heights Public Schools athletic fields and residential properties, with Hillcroft Park located beyond.

The Site is abutted to the east by Buchanan Street followed by an Amoco gas station, Tint Factory, N&A Auto Repair, Prestige Transport, LLC, Steil Property Management, RSP Investment Property, Inc., MSC Industrial Supply Co., Clean Rooms International, Independent Glass, Chase Creative Unlimited, Ter Molen & Hart Sheet Metal, Tracer Tool & Die Co., United Auto Workers (UAW) Hall, Conical Tapered Mills, a vacant commercial/industrial building, a vacant lot, Mark Maker Company, and residential properties.

The Site is abutted to the south by 40th Street followed by Accurate Alignment & Brake and residential properties.

The Site is abutted to the west by railroad tracks, Cole Drain, Consumers high-tension power lines, Consumers Service Center, The Macomb Group, and Clay Avenue followed by Ryder Truck, Cummins, a vacant commercial/industrial building, K-Mac Plastics,

Floyd's Electric, Consolidated Metal Products, Inc., Rose Pest Solutions, Donald Engineering, and Earl Jourdan Auto Parts.

2.3 SITE HISTORY

GMC initiated automotive manufacturing operations at the Site in 1936. Additional buildings were constructed and the Site was expanded several times between 1937 and 2006. Primary operations conducted at the Site consisted of metal fabrication and assembly for consumer vehicles. Operations ceased at the Site on June 30, 2010. The Site is currently on the Michigan Act 451, Part 201 Site List (Site Identification No. 41000115) and RACER Trust is conducting Site-wide investigation and monitoring activities associated with the listing.

The Site is currently undergoing redevelopment activities including decommissioning, demolition, and property re-grading by contractors on behalf of the WBRA. The majority of the historical structures at the Site have been decommissioned and demolished, or are undergoing demolition at this time.

2.4 HISTORICAL USAGE OF PCBs

As part of initial facility decommissioning, a draft Facility Environmental Assessment (FEA) was performed by CRA in October 2010, which included an evaluation of above grade potential PCB-containing or impacted materials. Additionally, as part of the on-going investigations and assessments being conducted at the Site associated with the Michigan Act 451, Part 201 listing, a Current Conditions Report (CCR) was prepared by CRA in December 2010, which included an evaluation of potential PCB-containing materials. As previously indicated, the scope of this SIP is limited to specific subsurface areas of the Site only, as described in subsequent sections.

The scope of work for the FEA and CCR included a Site walkthroughs of accessible Site structures, interviews with Site personnel, and a Site file review to identify potential PCB-containing materials known or suspected to have been used at the Site. Information was compiled on Site during the Site inspection, file review and interviews by CRA. Information obtained included Site drawings, Site environmental records, and copies of miscellaneous lists (equipment, wastes, etc.).

According to historical document reviews and interviews with Site personnel, the known historical uses of PCBs at the Site included: fluorescent light ballasts, hydraulic oils in machinery, and dielectric oil within transformers and capacitors. Potential PCB-

containing materials or PCB-containing materials observed included: dielectric fluids; impacted concrete and metal surfaces; light ballasts; natural gas lines; non-electrical oil-containing equipment such as elevators, air compressors and dock levelers; and solid PCB bulk product materials (i.e., floor block).

3.0 SITE CHARACTERIZATION

As identified in Section 2.3, the Site is on the Michigan Act 451, Part 201 sites list and is currently undergoing investigation and cleanup on a voluntary basis. Numerous subsurface investigations have been conducted at the Site between 1981 and 2012, which primarily evaluated non-PCB related areas of concern.

This section addresses specific subsurface evaluations conducted relative to delineation of two areas (PCB Area No. 1 and PCB Area No. 2) where PCBs were identified during a Site-wide investigation at concentrations above the High Occupancy Area Cleanup Level of 1 ppm/1 mg/kg for bulk remediation waste (without further conditions) set forth in TSCA. These two areas are being addressed at this time as the new property owner implements redevelopment activities in the area of the former Main Manufacturing Building footprint. Additional areas of PCB detections in soil above the 1 mg/kg High Occupancy Area Cleanup Level are present at the Site outside the former Main Manufacturing Building footprint; however, are not addressed in this SIP. These areas will be further evaluated and addressed, as applicable, in accordance with 40 CFR 761.61 at a later date.

3.1 SOIL BORING INSTALLATION/SOIL SAMPLING

PCB Area Nos. 1 and 2 were investigated in February and September 2011, and April 2012 through the installation of soil borings and the collection of soil samples.

Soil borings were advanced utilizing a rotosonic or direct-push (i.e., Geoprobe®) drill rig with continuous Macrocore® sampling. The Macrocore® samples were logged, examined by a CRA geologist for visual/olfactory evidence of impact, and screened with an 11.7 electron volt (eV) bulb photoionization detector (PID). The stratigraphic soil boring logs are presented in Appendix A. Soil samples, including Quality Assurance/Quality Control (QA/QC) samples, were collected from the soil boring locations for laboratory analysis as described in Sections 3.1.1 and 3.1.2. A sample summary is presented in Table 3.1.

Soil cuttings were screened with an 11.7 eV bulb PID and examined for visual/olfactory indication of contamination. All soil cuttings were containerized in Department of Transportation (DOT)-approved 55-gallon drums labeled for future characterization and off-Site disposal.

Upon completion of soil sample collection, each soil boring was abandoned by backfilling the soil boring annulus with bentonite chips to the ground surface and properly hydrating.

A survey was completed for the soil boring locations. Soil boring locations and elevations were surveyed, with elevations to the nearest 0.01-foot. The elevations were referenced to a designated above mean sea level benchmark.

3.1.1 PCB AREA NO. 1

A Site-wide investigation was conducted in February 2012. As part of this investigation, one soil boring, SB61-11, was advanced in the central portion of the former Main Manufacturing Building. Soil samples were collected for chemical analysis from the 1 to 3-foot interval immediately beneath the concrete floor slab (0 to 1-foot interval was comprised on concrete floor slab) and from the 18 to 20-foot interval (immediately above the water table). The soil samples were submitted to the laboratory for chemical analysis for PCBs, Target Compound List (TCL) volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PNAs), and Target Analyte List (TAL) metals (minus earth metals). Based on the analytical results, PCBs were detected in the soil sample collected from 1 to 3 feet bgs from SB61-11 at a concentration of 4.4 mg/kg.

Based on the detection of PCBs above 1 mg/kg in the shallow soil sample collected from SB61-11, five additional soil borings were advanced in September 2011, SB153-11 through SB156-11 and SB167-11. Soil borings SB153-11 through SB155-11 and SB167-11 were advanced on 10-foot spacing directly to the north, south, east, and west of SB61-11 and SB156-11 was advanced adjacent to SB61-11. Soil samples were collected from SB153-11 through SB155-11 and SB167-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Soil samples were collected from SB156-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. The soil samples collected from the 0.5 to 2.5-foot and 2.5 to 4.0-foot intervals were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected. Therefore, the deeper samples were not analyzed by the laboratory.

Based on the results of the February and September 2011 investigations, four additional soil borings, SB173-12 through SB176-12, were advanced in April 2012. Soil borings SB173-12 through SB176-12 were advanced on 10-foot spacing to the northeast, northwest, southeast, and southwest of SB61-11/SB156-11 to complete the required delineation grid of the area. Soil samples were collected from SB173-12 through SB176-12 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. It should be noted that in SB173-12, the concrete slab was 2 feet thick, so the interval for the initial soil sample was the 2 to 4-foot interval, with refusal from concrete encountered below this level. Soil samples collected from the interval immediately beneath the floor slab and the subsequent interval were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg. Therefore, the deeper samples were not analyzed by the laboratory.

Stratigraphic soil boring logs are presented in Appendix A. Table 3.1 presents a sample summary. Table 3.2 presents a summary of PCB analytical results for PCB Area No. 1. Figure 3.1 presents the sample locations and results for PCBs.

3.1.2 PCB AREA NO. 2

A Site-wide investigation was conducted in February 2011. As part of this investigation, one soil boring, SB124-11, was advanced in the central portion of the former Main Manufacturing Building. Soil samples were collected for chemical analysis from the 1 to 3-foot interval immediately beneath the concrete floor slab (0 to 1-foot interval was comprised on concrete floor slab) and from the 17 to 19-foot interval (immediately above the water table). The soil samples were submitted to the laboratory for chemical analysis for PCBs, TCL VOCs, PNAs, and TAL metals (minus earth metals). Based on the analytical results, PCBs were detected in the soil sample collected from 1 to 3 feet bgs from SB124-11 at a concentration of 1.3 mg/kg.

Based on the detection of PCBs above 1 mg/kg in the shallow soil sample collected from SB124-11, five additional soil borings were advanced in September 2011, SB157-11 through SB161-11. Soil borings SB157-11 through SB159-11 and SB161-11 were advanced on 10-foot spacing directly to the north, south, east, and west of SB124-11 and SB160-11 was advanced adjacent to SB124-11. Soil samples were collected from SB157-11 through SB159-11 and SB161-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab were

analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Soil samples were collected from SB160-11 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. The soil samples collected from the 0.5 to 2.5-foot and 2.5 to 4.0-foot intervals were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were detected in the soil sample collected from the 0.6 to 2.6-foot interval from SB159-11 at a concentration of 1.1 mg/kg. Therefore, the soil samples from the 2.6 to 4-foot and 4 to 6-foot intervals were analyzed by the laboratory. The analytical results for the deeper interval samples collected from SB159-11 and the shallow interval samples from the remainder of the borings did not indicate the presence of PCBs at concentrations above 1 mg/kg. Therefore, additional deeper samples were not analyzed by the laboratory

Based on the results of the February and September 2011 investigations, seven additional soil borings, SB181-12 through SB187-12, were planned for April 2012 to complete the required delineation grid of the area. Upon mobilization to the Site to conduct the delineation activities, it was identified that previous soil excavation activities had been conducted in the area immediately to the southwest of the delineation area and the concrete and underlying partially collapsed soil to the southwest of SB159-11 area was determined to be unstable and unsafe for the situation of the drill rig for the advancement of soil borings, SB182-12 and SB183-12. According to individuals associated with the on-going redevelopment activities, the materials that were excavated to the south-southwest of the delineation area were stockpiled on the concrete floor slab of the former Main Manufacturing Building immediately adjacent to the delineation and excavated areas. This material appears to be approximately 30 cubic yards in volume. An 8-point composite sample of this material will be collected to confirm that PCBs are not detected at a concentration of 1 ppm in the excavated material. Soil borings SB181-12 and SB184-12 through SB187-12 were advanced on 10-foot spacing to the northeast, northwest, southeast, and southwest of SB124-11/SB160-11 and SB159-11. Soil samples were collected from SB181-12 and SB184-12 through SB187-12 for chemical analysis for PCBs in 2-foot intervals beginning immediately beneath the concrete floor slab and continuing to approximately 10 feet bgs. Soil samples collected from the interval immediately beneath the floor slab and the subsequent interval were analyzed by the laboratory, with the underlying 2-foot interval samples placed on hold at the laboratory pending receipt of the initial analysis for the known impacted interval. Based on the analytical results, PCBs were not detected in any of the samples collected at a concentration above 1 mg/kg. Therefore, the deeper samples were not analyzed by the laboratory.

Stratigraphic soil boring logs are presented in Appendix A. Table 3.1 presents a sample summary. Table 3.3 presents a summary of PCB analytical results for PCB Area No. 2. Figure 3.2 presents the sample locations and results for PCBs.

3.2 ANALYTICAL METHODS

The soil samples were submitted under chain-of-custody protocols to Test America Laboratories of North Canton, Ohio or TriMatrix Laboratories of Grand Rapids, Michigan. The soil samples were extracted and analyzed for individual Aroclors (Aroclors 1016, 1221, 1232, 1242, 1248, 1254, and 1260) and total PCBs utilizing U.S.EPA Method 3540C/3550C for extraction/preparation and Method 8082/8082A for chemical analysis consistent with SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" 3rd Edition, and promulgated updates, November 1986.

Copies of analytical reports will be maintained and available for review by U.S. EPA as identified in Section 6.0.

3.3 DATA VALIDATION

All analytical data was assessed utilizing quality control criteria established by the Quality Assurance Project Plan (QAPP) for the on-going Part 201 investigation work at the Site. Data validation memoranda outlining the details of the data validation will be maintained and available for review by U.S. EPA as identified in Section 6.0.

4.0 CLEANUP PLAN/REMEDIATION APPROACH

Based on the pre-cleanup characterization results, soil materials within the boundaries of the delineation to less than 1 ppm will be removed via excavation for off-Site disposal.

Soils will be removed to approximately 3 feet bgs for PCB Area Nos. 1 and 2. Approximately 250 cubic yards of material is anticipated to be removed from PCB Area No. 1 and approximately 390 cubic yards of material is anticipated to be removed from PCB Area No. 2 for off-Site disposal. For PCB Area No. 2, soil will also be removed from the area originally anticipated to be delineated through soil borings SB182-12 and SB183-12, to the extent of the area previously excavated during redevelopment activities (see Section 3.1.2). The anticipated extent of the proposed excavations for PCB Area Nos. 1 and 2 is presented on Figures 3.1 and 3.2, respectively.

Based on the pre-cleanup characterization, all materials have a PCB concentration of less than 50 ppm. These materials will be disposed of at Waste Management's Autumn Hills Landfill in Zeeland, Michigan, in accordance with 40 CFR 761.61 (a)(5).

5.0 SOIL VERIFICATION

Pre-cleanup characterization was conducted in accordance with the requirements of 40 CFR 761 Subpart N. As identified in Sections 3.0 and 4.0, results were compared to the cleanup standard of 1.0 ppm for bulk PCB remediation waste located in high-occupancy areas per 40 CFR 761.61(a)(4)(i)(A) and excavation will be conducted in the delineated extent to this cleanup level. No further verification sampling is proposed under 40 CFR 761; however, one additional floor soil sample from PCB Area No. 1 and one additional floor soil sample from PCB Area No. 2 will be collected for analysis for PCBs to meet MDEQ requirements.

6.0 PLAN CERTIFICATION

Pursuant to 40 CFR 761.61 (a)(3)(i)(E), all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrument/chemical analysis procedures used to assess or characterize the PCB contamination related to the investigation and cleanup activities specified herein will be maintained in the following location and accessible for inspection by U.S. EPA:

- Conestoga-Rovers & Associates, Inc.
  Attn: Jennifer Quigley, P.E.
  200 West Allegan Street, Suite 300
  Plainwell, Michigan 49080-1397

Barbara VanDuren
Property Owner's Representative Signature

6/6/12
Date

Barbara Van Duren
Property Owner's Representative Printed Name

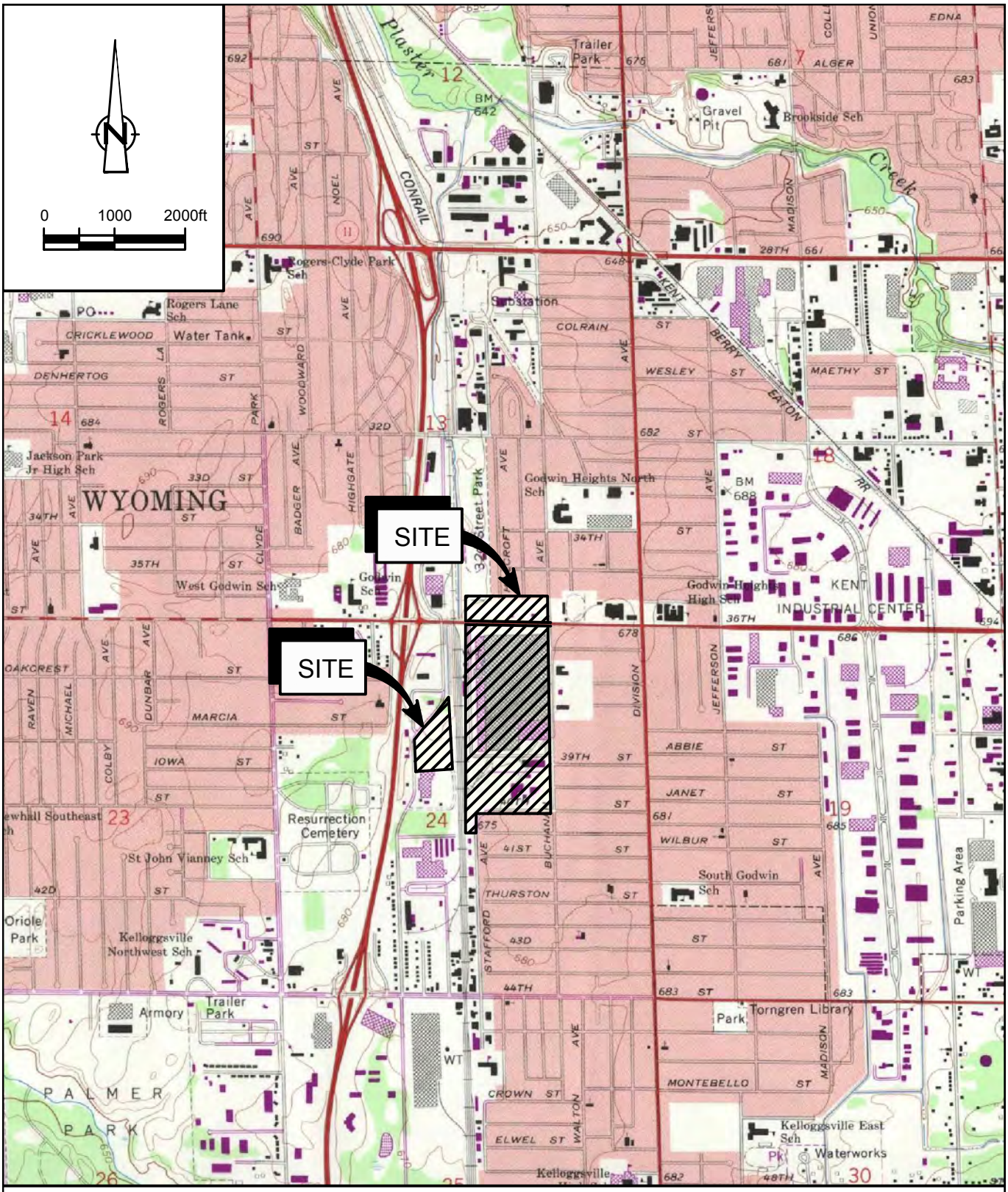
1155 28th Street SW, Wyoming, MI 49509
Address of Property Owner

FOR DAVE FAVERO
Cleanup Party's Representative Signature

6/1/12
Date

David Favero, Deputy Cleanup Manager
Cleanup Party's Representative Printed Name

2930 Ecorse Road, Ypsilanti, MI 48198
Address of Cleanup Party



SOURCE: USGS QUADRANGLE MAP
GRAND RAPIDS WEST, MICHIGAN

figure 1.1

GRAND RAPIDS

SITE LOCATION
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(028)GN-DE005 MAY 31/2012

RESIDENTIAL
COMMERCIAL
COMMERCIAL/INDUSTRIAL
COMMERCIAL/RESIDENTIAL
RESIDENTIAL
RESIDENTIAL
BUCHANAN STREET
367TH STREET
407TH STREET
STAFFORD ORD
CLAY AVE.
CLAY AVE
FORMER MAIN MANUFACTURING BUILDING
FORMER RACK MAKE-UP BUILDING
FORMER POWER HOUSE
FORMER USED OIL AST
FORMER WWTP
FORMER PRESS STAGING BUILDING
FORMER BALER HOUSE
PUMP HOUSE
500,000 GALLON WATER STORAGE TANK
PRIMARY SWITCH HOUSE
GUARD HOUSE
TRUCK SCALE PIT
STORM SEWER PUMP HOUSE
METAL STORAGE SHED
STORM WATER RETENTION BASIN
EMPLOYEE ENTRANCE BUILDING
0 100 250ft

LEGEND

APPROXIMATE PROPERTY BOUNDARY

AREA OF PCB IMPACTED SOIL EVALUATION

FENCE

RAILROAD

COLE DRAIN

figure 1.2

SITE PLAN
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

017360-T05(028)GN-DE006 MAY 31/2012

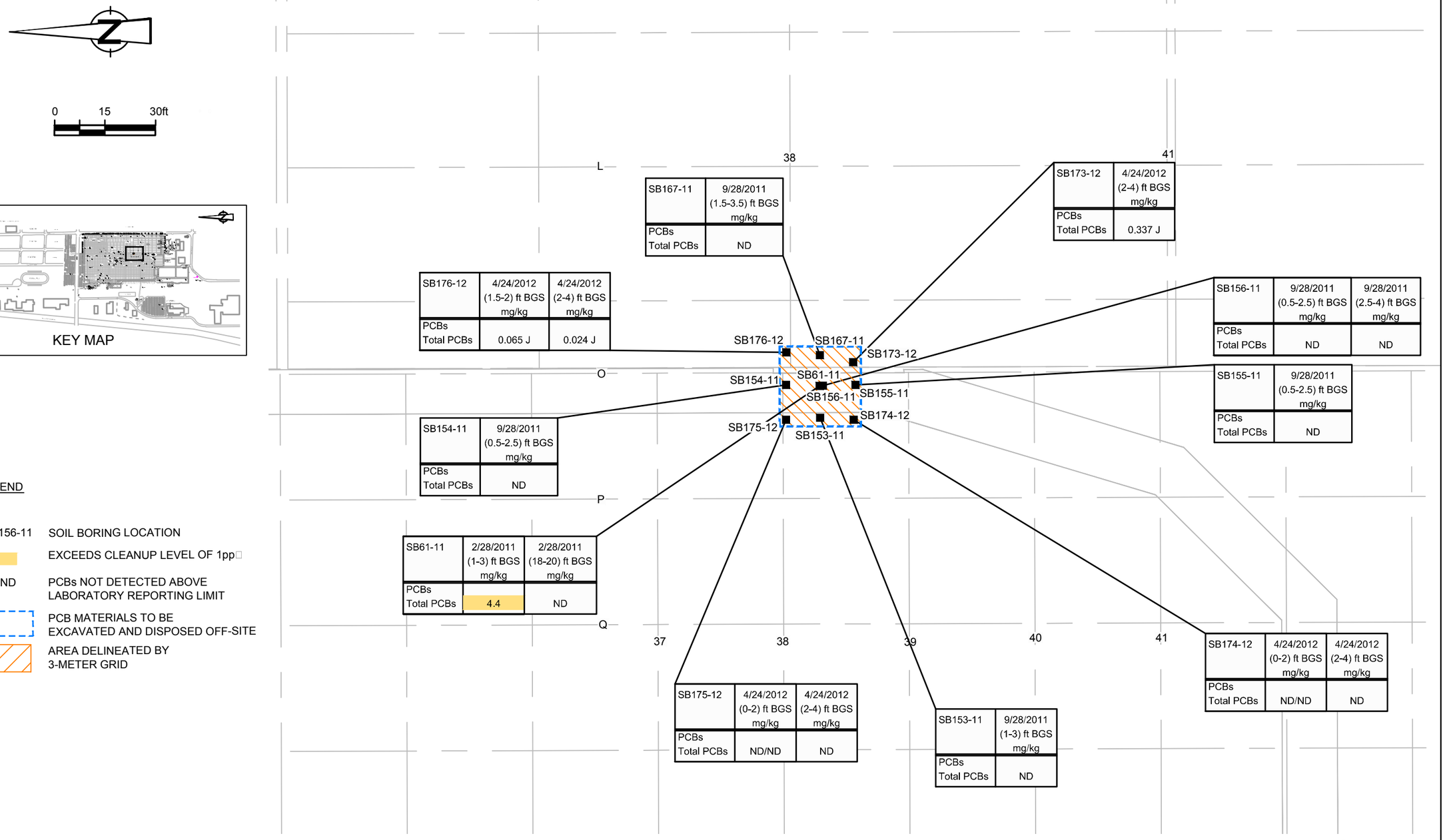
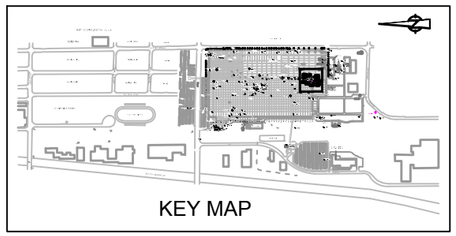


figure 3.1

DRAFT

PCB AREA NO. 1 - DELINEATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

0 15 30ft



SB187-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	0.15 J	ND

SB161-11	9/27/2011 (0.5-2.5) ft BGS mg/kg
PCBs Total PCBs	ND

SB181-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	0.0054 J

SB157-11	9/27/2011 (0.7-2.7) ft BGS mg/kg
PCBs Total PCBs	ND

SB158-11	9/27/2011 (0.5-2.5) ft BGS mg/kg
PCBs Total PCBs	ND

SB160-11	9/27/2011 (0.5-2.5) ft BGS mg/kg	9/27/2011 (2.5-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

SB159-11	9/27/2011 (0.6-2.6) ft BGS mg/kg	9/27/2011 (2.6-4) ft BGS mg/kg	9/27/2011 (4-6) ft BGS mg/kg
PCBs Total PCBs	1.1	ND	ND

SB124-11	2/21/2011 (1-3) ft BGS mg/kg	2/21/2011 (17-19) ft BGS mg/kg
PCBs Total PCBs	1.3	ND

SB186-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	0.11 J	0.047 J/0.05 J

SB185-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

SB184-12	4/23/2012 (0-2) ft BGS mg/kg	4/23/2012 (2-4) ft BGS mg/kg
PCBs Total PCBs	ND	ND

O P Q R

49 5/8 49 50 51 52 1/4

SB161-11 SB187-12 SB181-12 SB124-11 SB157-11 SB158-11 SB160-11 SB186-12 SB159-11 SB185-12 SB184-12

LEGEND

■ SB156-11 SOIL BORING LOCATION

EXCEEDS CLEANUP LEVEL OF 1pp□

ND PCBs NOT DETECTED ABOVE LABORATORY REPORTING LIMIT

PCB MATERIALS TO BE EXCAVATED AND DISPOSED OFF-SITE

AREA DELINEATED BY 3-METER GRID

AREA OF PARTIAL SOIL COLLAPSE BENEATH SLAB DUE TO ADJACENT SLAB REMOVAL/ EXCAVATION

DRAFT

figure 3.2

PCB AREA NO. 2 - DELINEATION SAMPLE LOCATIONS
FORMER GRAND RAPIDS METAL PLANT
Wyoming, Michigan

CRA

SAMPLE SUMMARY
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*			*QC Sample*	*Analysis*
2/21/2011	SO-17360-022111-DR-105	SB124-11	Soil	1	to	3		PCBs
2/21/2011	SO-17360-022111-DR-106	SB124-11	Soil	17	to	19		PCBs
2/28/2011	SO-17360-022811-DR-134	SB61-11	Soil	1	to	3		PCBs
2/28/2011	SO-17360-022811-DR-135	SB61-11	Soil	18	to	20		PCBs
9/27/2011	S-17360-092711-EM-009	SB159-11	Soil	0.6	to	2.6		PCBs
9/27/2011	S-17360-092711-EM-010	SB159-11	Soil	2.6	to	4		PCBs
9/27/2011	S-17360-092711-EM-011	SB159-11	Soil	4	to	6		PCBs
9/27/2011	SO-17360-092711-EM-012	SB159-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-013	SB159-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-014	SB158-11	Soil	0.5	to	2.5		PCBs
9/27/2011	SO-17360-092711-EM-015	SB158-11	Soil	2.5	to	4		PCBs[1]
9/27/2011	SO-17360-092711-EM-016	SB158-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-017	SB158-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-018	SB158-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-019	SB161-11	Soil	0.5	to	2.5		PCBs
9/27/2011	SO-17360-092711-EM-020	SB161-11	Soil	2.5	to	4		PCBs[1]
9/27/2011	SO-17360-092711-EM-021	SB161-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-022	SB161-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-023	SB161-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-024	SB160-11	Soil	0.5	to	2.5		PCBs
9/27/2011	S-17360-092711-EM-025	SB160-11	Soil	2.5	to	4		PCBs
9/27/2011	SO-17360-092711-EM-026	SB160-11	Soil	4	to	6		PCBs[1]
9/27/2011	SO-17360-092711-EM-027	SB160-11	Soil	6	to	8		PCBs[1]
9/27/2011	SO-17360-092711-EM-028	SB160-11	Soil	8	to	10		PCBs[1]
9/27/2011	S-17360-092711-EM-029	SB157-11	Soil	0.7	to	2.7		PCBs
9/27/2011	SO-17360-092711-EM-030	SB157-11	Soil	2.7	to	5		PCBs[1]
9/27/2011	SO-17360-092711-EM-031	SB157-11	Soil	5	to	7		PCBs[1]
9/28/2011	S-17360-092811-EM-038	SB154-11	Soil	0.5	to	2.5		PCBs
9/28/2011	SO-17360-092811-EM-039	SB154-11	Soil	2.5	to	4		PCBs[1]
9/28/2011	SO-17360-092811-EM-040	SB154-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-041	SB154-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-042	SB154-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-043	SB156-11	Soil	0.5	to	2.5		PCBs
9/28/2011	S-17360-092811-EM-044	SB156-11	Soil	2.5	to	4		PCBs
9/28/2011	SO-17360-092811-EM-045	SB156-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-046	SB156-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-047	SB156-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-048	SB155-11	Soil	0.5	to	2.5		PCBs
9/28/2011	SO-17360-092811-EM-049	SB155-11	Soil	2.5	to	4		PCBs[1]
9/28/2011	SO-17360-092811-EM-050	SB155-11	Soil	4	to	6		PCBs[1]
9/28/2011	SO-17360-092811-EM-051	SB155-11	Soil	6	to	8		PCBs[1]
9/28/2011	SO-17360-092811-EM-052	SB155-11	Soil	8	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-053	SB153-11	Soil	1	to	3		PCBs
9/28/2011	SO-17360-092811-EM-054	SB153-11	Soil	3	to	5		PCBs[1]
9/28/2011	SO-17360-092811-EM-055	SB153-11	Soil	5	to	7		PCBs[1]
9/28/2011	SO-17360-092811-EM-056	SB153-11	Soil	7	to	9		PCBs[1]
9/28/2011	SO-17360-092811-EM-057	SB153-11	Soil	9	to	10		PCBs[1]
9/28/2011	S-17360-092811-EM-058	SB167-11	Soil	1.5	to	3.5		PCBs
9/28/2011	SO-17360-092811-EM-059	SB167-11	Soil	3.5	to	5.5		PCBs[1]
9/28/2011	SO-17360-092811-EM-060	SB167-11	Soil	5.5	to	7.5		PCBs[1]
9/28/2011	SO-17360-092811-EM-061	SB167-11	Soil	7.5	to	9.5		PCBs[1]
4/23/2012	SO-17360-042312-EB-001	SB186-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-002	SB186-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-003	SB186-12	Soil	2	to	4	Duplicate (-002)	PCBs
4/23/2012	SO-17360-042312-EB-004	SB186-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-005	SB186-12	Soil	4	to	6	Duplicate (-004)	PCBs[1]
4/23/2012	SO-17360-042312-EB-006	SB186-12	Soil	6	to	8	MS/MSD	PCBs[1]
4/23/2012	SO-17360-042312-EB-007	SB186-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-008	SB185-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-009	SB185-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-010	SB185-12	Soil	4	to	6		PCBs[1]

SAMPLE SUMMARY
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Date	*Sample Identification*	*Sample Location*	*Matrix*	*Sample Depth (ft bgs)*			*QC Sample*	*Analysis*
4/23/2012	SO-17360-042312-EB-011	SB185-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-012	SB185-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-013	SB184-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-014	SB184-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-015	SB184-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-016	SB184-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-017	SB184-12	Soil	6	to	8	Duplicate (-016)	PCBs[1]
4/23/2012	SO-17360-042312-EB-018	SB184-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-019	SB187-12	Soil	0	to	2		PCBs
4/23/2012	SO-17360-042312-EB-020	SB187-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-021	SB187-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-022	SB187-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-023	SB187-12	Soil	8	to	10		PCBs[1]
4/23/2012	SO-17360-042312-EB-024	SB181-12	Soil	0	to	2	MS/MSD	PCBs
4/23/2012	SO-17360-042312-EB-025	SB181-12	Soil	2	to	4		PCBs
4/23/2012	SO-17360-042312-EB-026	SB181-12	Soil	4	to	6		PCBs[1]
4/23/2012	SO-17360-042312-EB-027	SB181-12	Soil	6	to	8		PCBs[1]
4/23/2012	SO-17360-042312-EB-028	SB181-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-052	SB176-12	Soil	1.5	to	2	MS/MSD	PCBs
4/24/2012	S-17360-042412-EM-053	SB176-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-054	SB176-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-055	SB176-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-056	SB176-12	Soil	8	to	10	MS/MSD	PCBs[1]
4/24/2012	S-17360-042412-EM-057	SB175-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-058	SB175-12	Soil	0	to	2	Duplicate (-057)	PCBs
4/24/2012	S-17360-042412-EM-059	SB175-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-060	SB175-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-061	SB175-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-062	SB175-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-063	SB175-12	Soil	8	to	10	Duplicate (-062)	PCBs[1]
4/24/2012	S-17360-042412-EM-064	SB174-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-065	SB174-12	Soil	0	to	2		PCBs
4/24/2012	S-17360-042412-EM-066	SB174-12	Soil	2	to	4		PCBs
4/24/2012	S-17360-042412-EM-067	SB174-12	Soil	4	to	6		PCBs[1]
4/24/2012	S-17360-042412-EM-068	SB174-12	Soil	4	to	6	Duplicate (-067)	PCBs[1]
4/24/2012	S-17360-042412-EM-069	SB174-12	Soil	6	to	8		PCBs[1]
4/24/2012	S-17360-042412-EM-070	SB174-12	Soil	8	to	10		PCBs[1]
4/24/2012	S-17360-042412-EM-071	SB173-12	Soil	2	to	4		PCBs

Notes:

PCBs - Polychlorinated Biphenyls

QC - Quality Control

MS/MSD - Matrix Spike /Matrix Spike Duplicate

[1] - The sample was submitted to the analytical laboratory on hold, but not analyzed.

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB61-11*	*SB61-11*	*SB153-11*	*SB154-11*	*SB155-11*	*SB156-11*	*SB156-11*
Sample Identification		Toxic	*SO-17360-022811-DR-134*	*SO-17360-022811-DR-135*	*S-17360-092811-EM-053*	*S-17360-092811-EM-038*	*S-17360-092811-EM-048*	*S-17360-092811-EM-043*	*S-17360-092811-EM-044*
Sample Date		Substances	*2/28/2011*	*2/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*	*9/28/2011*
Sample Depth		Control	*(1-3) ft BGS*	*(18-20) ft BGS*	*(1-3) ft BGS*	*(0.5-2.5) ft BGS*	*(0.5-2.5) ft BGS*	*(0.5-2.5) ft BGS*	*(2.5-4) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1221 (PCB-1221)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1232 (PCB-1232)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1242 (PCB-1242)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1248 (PCB-1248)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1254 (PCB-1254)	ug/kg	--	4400	270 U	34 U	35 U	34 U	35 U	35 UJ
Aroclor-1260 (PCB-1260)	ug/kg	--	2900 U	270 U	34 U	35 U	34 U	35 U	35 UJ
Total PCBs	ug/kg	1000	**4400**	ND	ND	ND	ND	ND	ND

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB167-11*	*SB173-12*	*SB174-12*	*SB174-12*	*SB174-12*	*SB175-12*	*SB175-12*
Sample Identification		Toxic	*S-17360-092811-EM-058*	*S-17360-042412-EM-071*	*S-17360-042412-EM-064*	*S-17360-042412-EM-065*	*S-17360-042412-EM-066*	*S-17360-042412-EM-057*	*S-17360-042412-EM-058*
Sample Date		Substances	*9/28/2011*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*	*4/24/2012*
Sample Depth		Control	*(1.5-3.5) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(0-2) ft BGS*
Sample Type		Act [1]				*Duplicate*			*Duplicate*
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1221 (PCB-1221)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1232 (PCB-1232)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1242 (PCB-1242)	ug/kg	--	35 U	27 J	350 U	350 U	350 U	350 U	350 U
Aroclor-1248 (PCB-1248)	ug/kg	--	35 U	360 U	350 U	350 U	350 U	350 U	350 U
Aroclor-1254 (PCB-1254)	ug/kg	--	35 U	180 J	350 U	350 U	350 U	350 U	350 U
Aroclor-1260 (PCB-1260)	ug/kg	--	35 U	130 J	350 U	350 U	350 U	350 U	350 U
Total PCBs	ug/kg	1000	ND	337 J	ND	ND	ND	ND	ND

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

: Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.2

SUMMARY OF ANAYLTICAL RESULTS FOR PCB AREA NO. 1
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB175-12*	*SB176-12*	*SB176-12*
Sample Identification		Toxic	*S-17360-042412-EM-059*	*S-17360-042412-EM-052*	*S-17360-042412-EM-053*
Sample Date		Substances	*4/24/2012*	*4/24/2012*	*4/24/2012*
Sample Depth		Control	*(2-4) ft BGS*	*(1.5-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]			
	Units				
PCBs					
Aroclor-1016 (PCB-1016)	ug/kg	--	340 U	350 U	350 U
Aroclor-1221 (PCB-1221)	ug/kg	--	340 U	350 U	350 U
Aroclor-1232 (PCB-1232)	ug/kg	--	340 U	350 U	350 U
Aroclor-1242 (PCB-1242)	ug/kg	--	340 U	14 J	350 U
Aroclor-1248 (PCB-1248)	ug/kg	--	340 U	350 U	350 U
Aroclor-1254 (PCB-1254)	ug/kg	--	340 U	350 U	350 U
Aroclor-1260 (PCB-1260)	ug/kg	--	340 U	51 J	24 J
Total PCBs	ug/kg	1000	ND	65 J	24 J

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

: Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB124-11*	*SB124-11*	*SB157-11*	*SB158-11*	*SB159-11*	*SB159-11*	*SB159-11*
Sample Identification		Toxic	*SO-17360-022111-DR-105*	*SO-17360-022111-DR-106*	*S-17360-092711-EM-029*	*S-17360-092711-EM-014*	*S-17360-092711-EM-009*	*S-17360-092711-EM-010*	*S-17360-092711-EM-011*
Sample Date		Substances	*2/21/2011*	*2/21/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*	*9/27/2011*
Sample Depth		Control	*(1-3) ft BGS*	*(17-19) ft BGS*	*(0.7-2.7) ft BGS*	*(0.5-2.5) ft BGS*	*(0.6-2.6) ft BGS*	*(2.6-4) ft BGS*	*(4-6) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1221 (PCB-1221)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1232 (PCB-1232)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1242 (PCB-1242)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1248 (PCB-1248)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Aroclor-1254 (PCB-1254)	ug/kg	--	1300	270 U	34 U	33 U	1100	34 U	34 U
Aroclor-1260 (PCB-1260)	ug/kg	--	340 U	270 U	34 U	33 U	170 U	34 U	34 U
Total PCBs	ug/kg	1000	**1300**	ND	ND	ND	**1100**	ND	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Waste for High Occupancy Areas without further conditions per 40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB160-11*	*SB160-11*	*SB161-11*	*SB181-12*	*SB181-12*	*SB184-12*	*SB184-12*
Sample Identification		Toxic	*S-17360-092711-EM-024*	*S-17360-092711-EM-025*	*S-17360-092711-EM-019*	*SO-17360-042312-EB-024*	*SO-17360-042312-EB-025*	*SO-17360-042312-EB-013*	*SO-17360-042312-EB-014*
Sample Date		Substances	*9/27/2011*	*9/27/2011*	*9/27/2011*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*
Sample Depth		Control	*(0.5-2.5) ft BGS*	*(2.5-4) ft BGS*	*(0.5-2.5) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]							
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	--	34 U	34 U	34 U	350 U	340 U	350 U	340 U
Aroclor-1260 (PCB-1260)	ug/kg	--	34 U	34 U	34 U	350 U	5.4 J	350 U	340 U
Total PCBs	ug/kg	1000	ND	ND	ND	ND	5.4 J	ND	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Wa
for High Occupancy Areas without further conditions pe
40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

TABLE 3.3

SUMMARY OF ANALYTICAL RESULTS FOR PCB AREA NO. 2
SELF IMPLEMENTING PLAN
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

Sample Location			*SB185-12*	*SB185-12*	*SB186-12*	*SB186-12*	*SB186-12*	*SB187-12*	*SB187-12*
Sample Identification		Toxic	*SO-17360-042312-EB-008*	*SO-17360-042312-EB-009*	*SO-17360-042312-EB-001*	*SO-17360-042312-EB-002*	*SO-17360-042312-EB-003*	*SO-17360-042312-EB-019*	*SO-17360-042312-EB-020*
Sample Date		Substances	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*	*4/23/2012*
Sample Depth		Control	*(0-2) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*	*(2-4) ft BGS*	*(0-2) ft BGS*	*(2-4) ft BGS*
Sample Type		Act [1]					*Duplicate*		
	Units								
PCBs									
Aroclor-1016 (PCB-1016)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1221 (PCB-1221)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1232 (PCB-1232)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1242 (PCB-1242)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1248 (PCB-1248)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Aroclor-1254 (PCB-1254)	ug/kg	--	350 U	350 U	110 J	50 J	47 J	150 J	340 U
Aroclor-1260 (PCB-1260)	ug/kg	--	350 U	350 U	1800 U	360 U	360 U	350 U	340 U
Total PCBs	ug/kg	1000	ND	ND	110 J	50 J	47 J	150 J	ND

Notes:

Notes:

[1] Cleanup Level of 1 ppm for Bulk PCB Remediation Wa
for High Occupancy Areas without further conditions pe
40 CFR 761.61(a)(4)(i)(A)

Exceeds 1 ppm Cleanup Level

U - Not present at or above the associated value.

J - Estimated concentration.

-- Criteria not available

APPENDIX A

STRATIGRAPHIC SOIL BORING LOGS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB124-11
DATE COMPLETED: February 21, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510664.87
EASTING: 12773559.48
GROUND SURFACE 681.07

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.27						
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1-3' -105				0.1
				1MC		80		
4	- fine grained, light brown at 3.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					0.2
6								0.2
8				2MC		85		0.2
10	SP-SAND (native), trace fine gravel, compact, fine to coarse grained, poorly graded, medium brown, moist	672.07						
	- light brown at 9.5ft BGS							0.3
12	- with fine to coarse gravel at 10.0ft BGS	669.07		3MC		70		
14	SP/GP-SAND AND GRAVEL, compact, fine to coarse sand, fine gravel, poorly graded, medium brown, moist							0.2
16	SP-SAND, with fine to coarse gravel, compact, fine to coarse grained, poorly graded, light brown, moist	666.07						0.2
	- trace fine gravel at 16.0ft BGS			4MC		70		
18				17-19' -106				0.2
20	- fine grained, no gravel, wet at 19.5ft BGS - with fine to coarse gravel, fine to coarse grained at 20.0ft BGS							
22	- trace fine gravel, fine to medium grained, trace coarse grained at 21.0ft BGS							
24								
26	END OF BOREHOLE @ 25.0ft BGS	656.07						
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB61-11
DATE COMPLETED: February 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 511113.56
EASTING: 12773581.31

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.06					
	WOOD BLOCK FLOOR	680.86					
	CONCRETE	680.36					
2	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, brown, moist - trace fine gravel, dark brown at 1.9ft BGS		1-3' -134				0.2
			1MC		85		
4	- orange brown at 3.0ft BGS						0.2
6	- light brown at 6.0ft BGS						0.2
			2MC		75		
8	- fine to medium grained, trace coarse grained, brown at 8.1ft BGS						0.2
10							0.2
		669.56					
12	SP-SAND (native), trace fine gravel, compact, fine to medium grained, trace coarse grained, poorly graded, tan/beige, moist		3MC		70		
14	- with fine gravel at 13.5ft BGS						0.3
16	- fine grained, trace medium to coarse grained at 16.1ft BGS						0.5
18	- fine to medium grained, trace coarse grained, trace fine to coarse gravel at 17.3ft BGS - with fine gravel, fine to coarse grained at 18.4ft BGS		4MC		90		
			18-20' -135				0.5
20	- trace fine gravel at 18.9ft BGS - wet at 20.0ft BGS						0.4
22		658.76	5MC		80		
	SM-SAND, some silt, compact, fine grained, poorly graded, brown, wet						0.5
24		657.16					
	SP-SAND, trace silt, with fine gravel, compact, fine to coarse grained, poorly graded, brown, wet	656.06					
26	END OF BOREHOLE @ 25.0ft BGS						
28	NOTE: ABANDONED FOLLOWING SAMPLE COLLECTION AND BACKFILLED WITH BENTONITE CHIPS						
30							
32							
34							

TEMP MONITORING WELL

WELL DETAILS
Screened interval:
661.06 to 656.06ft
20.00 to 25.00ft BGS
Length: 5ft

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB153-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511113.46
EASTING: 12773571.84

GROUND SURFACE 681.08

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0	CONCRETE	680.28						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, brown, moist - light tan at 2.9ft BGS - dark brown at 3.5ft BGS - orange brown at 4.4ft BGS		BACKFILLED WITH BENTONITE CHIPS	1-3' -053 1GP		60		0.1
4				3-5' -054				2.0
6				5-7' -055				0.0
8				2GP 7-9' -056		65		0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.08		9-10' -057				
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB154-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.58
EASTING: 12773581.62
GROUND SURFACE 681.06

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.56						
2	SP-SAND, trace silt and fine gravel, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -038				0.0
				1GP		50		
4	- brown from 3.5 to 3.9ft BGS			2.5-4' -039				0.0
			BACKFILLED WITH BENTONITE CHIPS	4-6' -040				
6								0.0
				6-8' -041 2GP		60		
8								
	- with medium gravel at 9.1ft BGS			8-10' -042				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.06						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB155-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511102.95
EASTING: 12773581.65

GROUND SURFACE 681.03

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.53		0.5-2.5' -048				0.0
2	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist			1GP 2.5-4' -049		50		0.1
4	- orange brown from 3.9 to 4.0ft BGS - orange brown at 4.1ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -050				0.0
6				6-8' -051 2GP		70		
8				8-10' -052				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.03						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB156-11
DATE COMPLETED: September 28, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511112.63
EASTING: 12773581.4
GROUND SURFACE 681.04

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.54						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, brown, moist			0.5-2.5' -043				1.2
				1GP		50		
4	- orange brown at 3.8ft BGS			2.5-4' -044				0.0
			BACKFILLED WITH BENTONITE CHIPS	4-6' -045				
6								0.0
				6-8' -046				
8				2GP		70		
				8-10' -047				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.04						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB157-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510674.12
EASTING: 12773559.28

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.07						
0	CONCRETE	680.37						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.7-2.7' -029 1GP		50		0.0
4	- few medium gravel from 4.0 to 4.5ft BGS			2.7-5' -030				0.0
6			BACKFILLED WITH BENTONITE CHIPS	2GP 5-7' -031		60		0.0
7	- REFUSAL at 7.0ft BGS	674.07						
8	END OF BOREHOLE @ 7.0ft BGS							

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB158-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510654.99
EASTING: 12773560.11

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.04						
0	CONCRETE	680.54						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -014				0.0
				1GP		60		
4	- black, potential fly-ash, lightweight from 3.5 to 3.7ft BGS			2.5-4' -015				0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -016				0.0
8				6-8' -017 2GP		70		
10	END OF BOREHOLE @ 10.0ft BGS	671.04		8-10' -018				0.0
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB159-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.63
EASTING: 12773549.59
GROUND SURFACE ELEV. 681.05 ft

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.45						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist - rock debris from 2.1 to 2.3ft BGS			0.6-2.6' -009 1GP 2.6-4' -010		70		0.0 0.0
4	- trace fine gravel from 4.1 to 4.4ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -011				
6				6-8' -012 2GP		60		0.0
8				8-10' -013				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.05						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB160-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.8
EASTING: 12773559.48
GROUND SURFACE ELEV. ft: 681.04

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.54						
	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -024				0.0
2				1GP		70		
	- black, potential fly-ash, lightweight from 3.5 to 3.6ft BGS			2.5-4' -025				0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -026				
6								0.0
				6-8' -027 2GP		65		
8								
				8-10' -028				0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.04						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB161-11
DATE COMPLETED: September 27, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510664.98
EASTING: 12773570.64

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.09						
0	CONCRETE	680.59						
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist			0.5-2.5' -019				0.0
				1GP		75		
4	- black, potential fly-ash, lightweight from 3.5 to 3.7ft BGS			2.5-4' -020				0.0
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -021				0.0
8				6-8' -022 2GP		80		
10	END OF BOREHOLE @ 10.0ft BGS	671.09		8-10' -023				0.0
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB173-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	NORTHING: 511103.6 EASTING: 12773588.4 GROUND SURFACE	681.10						
0	CONCRETE							0.0
2	SP-SAND, trace fine gravel and silt, compact fine grained, poorly graded, dark brown, moist	679.60	BACKFILLED WITH BENTONITE CHIPS	1RS (2-4' -071)				
4	- REFUSAL at 4.0ft BGS END OF BOREHOLE @ 4.0ft BGS	677.10						0.0
6								
8								
10								
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB174-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511103.5
EASTING: 12773571.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	680.80						
0	CONCRETE	680.30	BACKFILLED WITH BENTONITE CHIPS	0-2' -064/ 065				0.0
2	SP-SAND, trace fine gravel and silt, compact, fine grained, poorly graded, brown, moist - 1" thick piece of slag at 1.8ft BGS			1RS 2-4' -066				0.0
4	- no gravel, light brown at 4.7ft BGS			4-6' -067/ 068				0.0
6				6-8' -069 2RS				0.0
8	- with fine gravel at 9.3ft BGS			8-10' -070				
10	END OF BOREHOLE @ 10.0ft BGS	670.80						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB175-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.6
EASTING: 12773571.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50						
2	SP-SAND, trace fine gravel and silt, compact, fine grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	0-2' -057/ 058				0.0
4	- no gravel, light brown at 4.0ft BGS			1RS 2-4' -059				0.0
6				4-6' -060				0.0
8				6-8' -061 2RS				0.0
10	- trace gravel, brown at 9.8ft BGS	671.00		8-10' -062/ 063				
	END OF BOREHOLE @ 10.0ft BGS							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB176-12
DATE COMPLETED: April 24, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. MICKELSON

NORTHING: 511123.5
EASTING: 12773591.3

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.40						
0	CONCRETE							
	SP-SAND, with fine gravel, trace silt, compact, fine grained, poorly graded, brown, moist	679.90	BACKFILLED WITH BENTONITE CHIPS	1.5-2' -052				0.0
2	- shards of glass at 2.8ft BGS			1RS 2-4' -053				
4				4-6' -054				0.0
6								0.0
	- 0.03" small black slag seam at 7.2ft BGS			6-8' -055 2RS				
8								0.0
10	END OF BOREHOLE @ 10.0ft BGS	671.40		8-10' -056				
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB181-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510654.8
EASTING: 12773569.5

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -024				0.1
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, dark brown, moist - trace cinders and coarse gravel at 2.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -025		75		0.2
4	- 6" layer of slag, cinders, coal fragments, black at 3.6ft BGS - light brown at 4.0ft BGS			4-6' -026				0.3
6				6-8' -027 2DP		60		0.1
8				8-10' -028				0.2
10	- trace silt at 9.5ft BGS END OF BOREHOLE @ 10.0ft BGS	671.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB184-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510664.8
EASTING: 12773539.5

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -013				0.1
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - dark brown at 2.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -014		60		0.1
4	- trace coarse gravel, light brown at 3.5ft BGS - 2.5" seam of slag, cinders, coal fragments, black at 4.0ft BGS			4-6' -015				0.7
6								
8	- trace silt at 7.5ft BGS			6-8' -016/ 017' 2DP		75		0.3
10	END OF BOREHOLE @ 10.0ft BGS	671.00		8-10' -018				0.2
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB185-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773539.4
GROUND SURFACE ELEV. ft: 681.10

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.60		0-2' -008				0.2
2	SP-SAND, trace fine and coarse gravel, compact, fine grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -009		60		0.2
4	- trace coal fragments at 3.0ft BGS - light brown at 4.0ft BGS			4-6' -010				0.1
6	- brown at 5.0ft BGS - trace cinders, slag, coal fragments at 6.0ft BGS			6-8' -011 2DP		75		0.8
8	- trace silt, light brown at 6.5ft BGS			8-10' -012				0.3
10	END OF BOREHOLE @ 10.0ft BGS	671.10						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB186-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773549.4

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	681.00						
0	CONCRETE	680.50		0-2' -001				0.2
2	SP-SAND, fine and coarse gravel, compact, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	1DP 2-4' -002/ 003		25		0.3
4	- dark brown from 4.5 to 5.0ft BGS			4-6' -004/ 005				0.7
6				6-8' -006 2DP		25		0.4
8	- trace coal fragments, dark brown and black coal smears, possible fly ash at 7.5ft BGS - light brown at 8.0ft BGS			8-10' -007				0.1
10	END OF BOREHOLE @ 10.0ft BGS	671.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB187-12
DATE COMPLETED: April 23, 2012
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510674.8
EASTING: 12773569.5

GROUND SURFACE 681.00

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	680.50	BACKFILLED WITH BENTONITE CHIPS	0-2' -019				0.2
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - trace cinders and slag at 2.5ft BGS - 1" seam of black slag, coal fragments and cinders at 3.0ft BGS - 3" seam of black slag, coal fragments and cinders at 3.5ft BGS - light brown at 3.7ft BGS - brown at 5.0ft BGS			1DP 2-4' -020		85		0.5
4				4-6' -021				0.3
6				6-8' -022 2DP		50		0.0
8				8-10' -023				0.1
10	END OF BOREHOLE @ 10.0ft BGS	671.00						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/1/12

APPENDIX B

WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number WMNA T 69636

B. State Generator's ID

5. Transporter 1 Company Name Cordes #293

6. US EPA ID Number

C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID
H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soils WM Profile # 110321MI	1	Truck	45649	Kg	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Color: Brown to grey, No Odor, Solid
OSD 8/22/12
Load 001

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # 40-4048767 | EMERGENCY CONTACT / PHONE NO.: James VanAssche/ 734-453-5123

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Batenburg	RACER TRUST	8	22	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Rick Simons		8	22	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb VanDam		8	22	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 1	

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 4. Generator's Phone 217-741-6235	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	T 69615
		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Cordes F293		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soils	1	Truck	40633	Kg	
WM Profile # 110321MI					
b.					
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: Brown to grey, No Odor, Solid
OSD 8/22/12
Load 003

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

Purchase Order # 40-4048767 EMERGENCY CONTACT / PHONE NO.: James VanAssche/ 734-453-5123

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Batenburg	RACER TRUST	8	22	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Rick Simons		8	22	12
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb VanDam		8	22	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA T 69635

B. State Generator's ID

5. Transporter 1 Company Name Cordes

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soils WM Profile # 110321MI	1	Truck	49124	Kg	
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above

Color: Brown to grey, No Odor, Solid
CRD 8/22/12
LOAD 002

K. Disposal Location

Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # 40-4048767 EMERGENCY CONTACT / PHONE NO.: James VanAssche/ 734-453-5123

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Baterbury	RACER TRUST	8	22	12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Al Rook		8	22	12

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest

Printed Name	Signature	Month	Day	Year
Barb VanDam	B VanDam	8	22	12

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY | Gold- TRANSPORTER #1 COPY

Customer Summary Report
Criteria: 08/08/2012 12:00 AM to 09/05/2012 11:59 PM
Business Unit Name: Autumn Hills Landfill - S03730 (USA)
Date: Sep 05 2012, 1:42:30 PM - Central Standard Time
Profile: 110321MI

Ticket Date	Ticket ID	Customer	Generator	Manifest	Truck	Material
8/22/2012	360567	CRA	129-RACERTRUST300	T69636	CON293-15	Cont Soil Sp. W.-Tons
8/22/2012	360582	CRA	129-RACERTRUST300	t69635	CON101-53	Cont Soil Sp. W.-Tons
8/22/2012	360603	CRA	129-RACERTRUST300	T69615	CON293-15	Cont Soil Sp. W.-Tons
Material Total	3					

Origin	Rate	Rate Unit	Rate Qty	Yards	Tons	Material Revenue	Tax Revenue	Surcharge Revenue	Total
MI-KENT	$13.00	TON	56.19	40	56.19	$730.47	$0.00	$386.96	$1,117.43
MI-KENT	$13.00	TON	60.98	40	60.98	$792.74	$0.00	$418.66	$1,211.40
MI-KENT	$13.00	TON	50.01	40	50.01	$650.13	$0.00	$346.07	$996.20
			167.18	120	167.18	$2,173.34	$0.00	$1,151.69	$3,325.03

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST | 1. Generator's US EPA ID No. | Manifest Doc No. | 2. Page 1 of 1

3. Generator's Mailing Address:
RACER TRUST
~~300 36TH STREET SW~~ 2930 Ecorse
~~GRAND RAPIDS, MI 49548~~ Ypsilanti, MI 48198
217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA T 69617

B. State Generator's ID

4. Generator's Phone

5. Transporter 1 Company Name ER 21
K+D Industrial Services

6. US EPA ID Number
MID 072790 710

C. State Transporter's ID MI-275
D. Transporter's Phone 616-784-8900

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID
H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soils WM Profile # 110321MI	1	DM	363	Kg	(55 gal)
b. WM Profile #					
c. WM Profile #					
d. WM Profile #					

J. Additional Descriptions for Materials Listed Above
Color: Brown to grey, No Odor, Solid
O.S.D. 4/12/13
Load 001

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information

Purchase Order # ~~40-4048767~~ EB 40-4057407

EMERGENCY CONTACT / PHONE NO.: ~~James VanAssche/ 734-453-5123~~

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Batenburg	RACER TRUST	4	12	13

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Kevin Simpson		4	12	13

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest

Printed Name	Signature	Month	Day	Year
Barb VanDam	B VanDam	4	12	13

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY | Blue- GENERATOR #2 COPY | Yellow- GENERATOR #1 COPY

Pink FACILITY USE ONLY | Gold TRANSPORTER #1 COPY

Appendix C

Stratigraphic Soil Boring Logs

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB100-11
DATE COMPLETED: March 15, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510516.94
EASTING: 12772958.34
GROUND SURFACE ELEV. 676.90 ft

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	676.40		0.5-2.5' -243				0.0
2	SP-SAND (FILL), trace fine gravel, compact, fine grained, trace medium to coarse grained, poorly graded, brown, moist - orange brown at 2.0ft BGS			1MC		65		
4								0.0
6	- brown at 6.0ft BGS		BACKFILLED WITH BENTONITE CHIPS					0.0
8				2MC		70		
10	SP-SAND (native), with fine to coarse gravel, compact, fine to coarse grained, poorly graded, light brown, moist	666.90		8-10' -244				0.0
12				3MC		70		0.0
14	- wet at 14.2ft BGS							0.0
15	END OF BOREHOLE @ 15.0ft BGS	661.90						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB109-11
DATE COMPLETED: March 14, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 512069.07
EASTING: 12772792.33

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	672.10						
0	ASPHALT	671.80		0-2' -227				0.0
2	FILL-SILTY SAND AND SLAG DEBRIS, compact, fine sand, slag is sand to coarse gravel size, dark brown to black, moist	670.30		1MC 2-4' -228		50		0.0
4	SP-SAND (FILL), compact, fine grained, poorly graded, yellow brown, moist		BACKFILLED WITH BENTONITE CHIPS	4-6' -229				
6	PT-PEAT (native), trace woody material, soft to firm, dark brown to black, moist	666.60		6-8' -230				0.0
8	SP-SAND (native), compact, fine to coarse grained, poorly graded, brown, moist	664.60		2MC		65		0.0
10	END OF BOREHOLE @ 10.0ft BGS	662.10		8-10' -231 -232				
12								
14								
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB110-11
DATE COMPLETED: March 14, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 512107.84
EASTING: 12772789.05

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.73						
0	ASPHALT	671.43		0-2' -233				0.0
2	SP-SAND (FILL), with fine gravel, compact, fine grained, poorly graded, brown, moist - trace fine gravel at 0.5ft BGS	670.53 669.73		1MC 2-4' -234		60	50	0.0
4	FILL-SILTY SAND AND SLAG DEBRIS, compact, fine sand, slag is sand to coarse gravel size, dark brown to black, moist							
6	SP-SAND (FILL), compact, fine grained, poorly graded, yellow brown, moist	666.73	BACKFILLED WITH BENTONITE CHIPS	4-6' -235				0.0
8	PT-PEAT (native), trace woody material, soft to firm, dark brown to black, moist SP-SAND (native), compact, fine to coarse grained, poorly graded, brown, moist	664.23		6-8' -236 2MC 8-10' -237		60	65	0.0
10	END OF BOREHOLE @ 10.0ft BGS	661.73						
12								
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NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

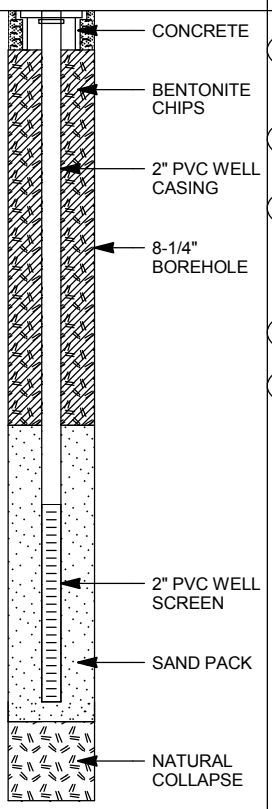
PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB111-11/MW27-11
DATE COMPLETED: March 14, 2011
DRILLING METHOD: DIRECT PUSH/HSA
FIELD PERSONNEL: D. RIVERS

NORTHING: 512134.67
EASTING: 12772787.4

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft
	GROUND SURFACE	671.71
0	ASPHALT	671.41
2	FILL-SILTY SAND AND SLAG DEBRIS, compact, fine sand, slag is sand to coarse gravel size, dark brown to black, moist	669.21
4	BRICK DEBRIS (FILL), sand to coarse gravel size, yellow, moist, trace slag debris	667.21
6	WHITE DEBRIS (FILL), porous, light, pumice-like sand to coarse gravel size, white, moist	665.71
8	PT-PEAT (native), trace woody material, soft to firm, dark brown to black, moist	663.21
10	SP-SAND (native), compact, fine to coarse grained, poorly graded, brown, moist	
12		
14	- wet at 14.2ft BGS	
16		
18		
20	END OF BOREHOLE @ 20.0ft BGS	651.71
22		
24		
26		
28		
30		
32		
34		

MONITORING WELL



WELL DETAILS
Screened interval:
659.21 to 654.21ft
12.50 to 17.50ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: PVC
Seal:
670.71 to 661.21ft
1.00 to 10.50ft BGS
Material: BENTONITE CHIPS
Sand Pack:
661.21 to 653.71ft
10.50 to 18.00ft BGS
Material: SAND PACK

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0-2' -238				0.0
1MC 2-4' -239		60		0.0
4-6' -240				0.0
2MC 6-8' -241		65		0.0
8-10' -242				0.0
3MC		70		0.0
				0.0
4MC		60		0.0
				0.0

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 6/2/11

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB146-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512167.37
EASTING: 12772807.05
GROUND SURFACE 672.13

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft
0	ASPHALT	671.93
2	MIX OF POTENTIAL FLY-ASH AND BLACK SLAG (FILL)	
4	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, orange brown, moist - rock debris at 4.3ft BGS	668.53
6		
8	- black, potential fly-ash from 7.7 to 7.8ft BGS - concrete debris from 8.0 to 8.5ft BGS	663.63
	PT-PEAT, black	662.73
10	- tan, putty-like substance at 9.5ft BGS	662.13
	SP-SAND, fine grained	
	END OF BOREHOLE @ 10.0ft BGS	
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

BOREHOLE: BACKFILLED WITH BENTONITE CHIPS

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0-2' -146				0.0
1GP 2-4' -147		60		0.0
4-6' -148				0.0
6-8' -149 2GP		50		
8-10' -150				0.0

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

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB147-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512154.28
EASTING: 12772779.57

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.45						
0	ASPHALT	671.05		0-2' -141				0.0
2	MIX OF POTENTIAL FLY-ASH AND BLACK SLAG (FILL)			1GP 2-4' -142		40		0.0
4	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, orange brown, moist - black to red brick debris from 4.2 to 9.3ft BGS	668.25	BACKFILLED WITH BENTONITE CHIPS	4-6' -143				0.0
6				6-8' -144 2GP		60		0.0
8	PT-PEAT, black	663.05		8-10' -155				0.0
10	PUTTY SUBSTANCE, tan	661.85						
	END OF BOREHOLE @ 10.0ft BGS	661.45						

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

CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB148-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512118.2
EASTING: 12772781.61

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.39						
0	ASPHALT	671.29						
	SP-SAND (FILL), trace silt, compact, fine grained, poorly graded, orange brown, moist			0-2' -136				0.0
2				1GP 2-4' -137		50		0.0
4	SLAG DEBRIS (FILL), mix of red brick and black slag	667.39						
	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, wet	666.39	BACKFILLED WITH BENTONITE CHIPS	4-6' -138				0.0
6				6-8' -139 2GP		50		
8	PT-PEAT, black	663.69						
	SP-SAND, trace silt, compact, fine grained, poorly graded, light tan, wet	662.69		8-10' -140				0.0
10	END OF BOREHOLE @ 10.0ft BGS	661.39						
12								
14								
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30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB149-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512084.49
EASTING: 12772782.26

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.63						
0	TOPSOIL	671.43		0-2' -131				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine grained, poorly graded, orange brown, moist			1GP 2-4' -132		50		0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -133				0.0
6				6-8' -134 2GP		60		
8	PT-PEAT, black	664.83		8-10' -135				0.0
10	SP-SAND, trace silt and fine gravel, compact, fine grained, poorly graded, orange brown, moist	663.83						
12	- fine to medium grained sand, few fine gravel, light tan at 8.9ft BGS	661.63						
14	END OF BOREHOLE @ 10.0ft BGS							
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB150-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512045.89
EASTING: 12772782.08

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.63						
0	TOPSOIL	671.43		0-2' -126				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine gravel, poorly graded, orange brown			1GP 2-4' -127		50		0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -128				0.0
6				6-8' -129 2GP		50		
8	- dark gray, damp, roots, silty from 8.5 to 8.8ft BGS	662.83		8-10' -130				0.0
10	PT-PEAT, black	662.13						
	SP-SAND, trace silt and fine gravel, compact, fine gravel, poorly graded, orange brown	661.63						
12	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB151-11
DATE COMPLETED: September 30, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 512034.26
EASTING: 12772792.71

GROUND SURFACE 672.13

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft
0	ASPHALT	672.03
2	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist - coarse gravel, black, odor from 2.0 to 3.1ft BGS	
4		
6		
8	PT-PEAT, black	664.13
	- light brown at 8.8ft BGS	663.33
10	SP-SAND, trace silt, compact, fine grained, poorly graded, orange brown, moist	662.13
	END OF BOREHOLE @ 10.0ft BGS	
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

BOREHOLE: BACKFILLED WITH BENTONITE CHIPS

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0-2' -121				0.0
1GP 2-4' -122				0.3
4-6' -123				0.4
6-8' -124 2GP				
8-10' -125				0.0

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

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB162-11
DATE COMPLETED: September 29, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510506.98
EASTING: 12772958.2

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	676.84						
0	CONCRETE	676.54		0-2' -082				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine to slightly medium grained, poorly graded, orange brown, moist			1GP 2-4' -083		70		
4				4-6' -084				0.0
6			BACKFILLED WITH BENTONITE CHIPS	6-8' -085 2GP				0.0
8	- fine to medium grained, with fine gravel at 8.2ft BGS					60		
10	END OF BOREHOLE @ 10.0ft BGS	666.84		8-10' -086				0.0
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB163-11
DATE COMPLETED: September 29, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510526.99
EASTING: 12772958.47

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.89						
0	CONCRETE	676.59		0-2' -071				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine to slightly moderately grained, poorly graded, orange brown, moist			1GP 2-4' -072		70		0.0
4	- with fine to medium gravel and fine to medium grained sand at 5.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -073				0.0
6				6-8' -074 2GP		60		0.0
8				8-10' -075				0.0
10	END OF BOREHOLE @ 10.0ft BGS	666.89						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB164-11
DATE COMPLETED: September 29, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510517.08
EASTING: 12772967.33

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	677.03						
0	CONCRETE	676.73						
2	SP-SAND, trace silt and fine gravel, compact, fine to slightly moderate grained, poorly graded, orange brown, moist			0-2' -076/ 077				0.0
2				1GP 2-4' -078		60		
4								0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -079				
6								0.0
6				6-8' -080 2GP		70		
8	- fine to medium grained, with fine gravel at 8.2ft BGS							0.0
8				8-10' -081				
10	END OF BOREHOLE @ 10.0ft BGS	667.03						

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

CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB165-11
DATE COMPLETED: September 29, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510517.1
EASTING: 12772948.62

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.76						
0	CONCRETE	676.46		0-2' -092				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine to slightly moderate grained, poorly graded, orange brown, moist			1GP 2-4' -093		60		0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -094				0.0
6				6-8' -095 2GP		70		0.0
8				8-10' -096				0.0
10	- fine to medium sand, with fine gravel at 9.7ft BGS	666.76						
	END OF BOREHOLE @ 10.0ft BGS							
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB166-11
DATE COMPLETED: September 29, 2011
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. MICKELSON

NORTHING: 510516.98
EASTING: 12772958.4

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.87						
0	CONCRETE	676.57		0-2' -087				0.0
2	SP-SAND, trace silt and fine gravel, compact, fine to slightly medium grained, poorly graded, orange brown, moist - potential fly-ash at 2.9ft BGS			1GP 2-4' -088		50		
4	- potential fly-ash at 3.6ft BGS - potential fly-ash at 4.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -089				0.0
6				6-8' -090 2GP				0.0
8						60		
10	- fine to medium grained sand, with fine gravel at 9.7ft BGS	666.87		8-10' -091				0.0
12	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/12/12

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB200-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510527
EASTING: 12772966.6

GROUND SURFACE 677.20

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0	CONCRETE	676.70		0-2' -158				0.0
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - trace coal fragments at 1.0ft BGS - trace coal fragments at 2.2ft BGS - trace coal fragments at 3.0ft BGS			1GP 2-4' -159/ 160'		50		0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -161				0.0
6	SP-SAND, trace fine to coarse gravel, trace fines, compact, fine to medium grained, poorly graded, dark brown - brown at 7.5ft BGS	671.20		6-8' -162 2GP		60		0.0
8				8-10' -163				0.0
10	END OF BOREHOLE @ 10.0ft BGS	667.20						
12								
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB201-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510506.9
EASTING: 12772970

GROUND SURFACE 677.10

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0	CONCRETE	676.60		0-2' -164				0.0
2	SP-SAND, trace fine gravel, compact, fine grained, poorly graded, brown, moist - trace coal fragments at 1.2ft BGS - dark brown at 2.0ft BGS - light brown at 3.5ft BGS			1GP 2-4' -165		65		0.0
4								
6	SP-SAND, with fine gravel, compact, fine grained, poorly graded, light brown, moist	672.10	BACKFILLED WITH BENTONITE CHIPS	4-6' -166				0.0
8	- trace coal fragments at 8.0ft BGS			6-8' -167 2GP		60		0.0
10	END OF BOREHOLE @ 10.0ft BGS	667.10		8-10' -168				0.0
12								
14								
16								
18								
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30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB202-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510506.9
EASTING: 12772948.8

GROUND SURFACE 676.90

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	676.40		0-2' -150				0.0
2	SP-SAND, trace fine to coarse gravel, compact, fine grained, poorly graded, brown, moist - trace coal fragments at 2.0ft BGS			1GP 2-4' -151		50		0.0
4								
4	- trace slag at 5.2ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -152				0.0
6	- trace slag and coal fragments at 6.5ft BGS - trace coal fragments at 6.8ft BGS			6-8' -153/ 154 2GP		50		0.0
8	- trace slag at 8.5ft BGS - trace slag at 9.0ft BGS			8-10' -155				0.0
10	END OF BOREHOLE @ 10.0ft BGS	666.90						
12								
14								
16								
18								
20								
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24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB203-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510506.7
EASTING: 12772939.3

GROUND SURFACE 676.90

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.65		0-2' -144/ 145				0.0
	CONCRETE	676.15						
	- dark brown at 1.0ft BGS			1GP 2-4' -146		65		0.0
2	SP-SAND, trace fine gravel, compact, fine grained, trace medium grained, poorly graded, brown, moist							
4	- trace coal/tar fragments, trace slag at 2.2ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -147				0.0
	- trace coal/tar fragments, trace slag at 4.5ft BGS							
6	- trace coal/tar fragments, trace slag at 6.0ft BGS			6-8' -148 2GP		70		0.0
8	- trace slag at 8.5ft BGS							
	- 2" seam black stained sand at 9.0ft BGS			8-10' -149				0.0
10	END OF BOREHOLE @ 10.0ft BGS	666.90						
12								
14								
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28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB204-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510519.3
EASTING: 12772938.9

GROUND SURFACE 676.90

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.65		0-2' -139				0.0
	CONCRETE	676.15						
2	SP-SAND, trace fine gravel, compact, fine grained, trace medium grained, poorly graded, brown, moist			1GP 2-4' -140		35		0.0
4	- black smear at 1.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -141				0.0
6								
8	- light brown at 7.0ft BGS			6-8' -142 2GP		40		0.0
10	END OF BOREHOLE @ 10.0ft BGS	666.90		8-10' -143				0.0
12								
14								
16								
18								
20								
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24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB205-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510527.1
EASTING: 12772939.1

GROUND SURFACE 676.80

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	ASPHALT	676.60		0-2' -134				0.1
	CONCRETE	676.10						
2	SP-SAND, trace fine to coarse gravel, compact, fine grained, trace medium grained, poorly graded, light brown, moist			1GP 2-4' -135		60		0.0
4	- brown to light brown banding at 2.3ft BGS - concrete debris at 2.5ft BGS							
	- dark brown at 2.7ft BGS	671.80	BACKFILLED WITH BENTONITE CHIPS	4-6' -136				0.0
6	- light brown at 2.9ft BGS - with fine gravel at 3.2ft BGS - trace coal/tar fragments 0.1" diameter at 4.7ft BGS			6-8' -137 2GP		60		0.1
8	SP-SAND, with fine to medium grained gravel, compact, medium to coarse sand, poorly graded, brown, moist			8-10' -138				0.0
10	- 1" seam oxidized sand, with fines at 7.0ft BGS	666.80						
	- brown to light brown at 7.5ft BGS							
12	END OF BOREHOLE @ 10.0ft BGS							
14								
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24								
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30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB206-12
DATE COMPLETED: October 31, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: E. BATENBURG

NORTHING: 510527.1
EASTING: 12772946.1

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.80						
0	ASPHALT	676.55		0-2' -129				0.0
2	SP-SAND, trace fine gravel, compact, fine grained, trace medium to coarse grained, poorly graded, brown, moist			1GP 2-4' -130		65		0.0
4	- black smear at 3.2ft BGS - trace coal/tar fragments, 1/4" diameter at 3.4ft BGS - trace medium grained sand at 4.8ft BGS		BACKFILLED WITH BENTONITE CHIPS	4-6' -131				0.0
6								
8	- concrete debris at 7.5ft BGS	669.30		6-8' -132 2GP		60		0.0
10	SP-SAND, with fine to coarse gravel, trace fines, compact, fine to coarse grained, poorly graded, light brown			8-10' -133				0.0
12	END OF BOREHOLE @ 10.0ft BGS	666.80						
14								
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18								
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24								
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28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB207-12
DATE COMPLETED: November 1, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. DEITNER

NORTHING: 512168.3
EASTING: 12772780.6

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.60						
0	SP-SAND (FILL), and slag, loose, fine grained sand, slag to 1/4", dry	671.10		0-2' -185				0.0
2	SP-SAND (FILL), trace gravel, loose, fine grained, poorly graded, brown, moist	670.10		1DP 2-4' -186		50		0.0
4	SP-SAND (FILL), and slag, loose, fine grained sand, slag up to 1/4", dry	668.60		4-6' -187/ 188				0.0
6	SP-SAND (FILL), trace silt, loose, fine grained, poorly graded, brown, moist	667.60	BACKFILLED WITH BENTONITE CHIPS	6-8' -189 2DP		60		0.0
8	SP-SAND (FILL), and slag, loose, fine grained, poorly graded, dark gray, moist - 3" lens rusty brown at 4.5ft BGS	665.60		8-10' -190				0.0
10	SP-SAND (FILL), trace silt, trace concrete debris, loose, fine grained, poorly graded, brown, moist	663.60						
12	PT-PEAT FIBERS (native), with silt, trace sand, loose, brown, very moist	662.60						
	OL-ORGANIC SILT/MARL,very soft, white, with gray and brown lenses, wet	661.60						
	END OF BOREHOLE @ 10.0ft BGS							

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB212-12
DATE COMPLETED: November 1, 2012
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. DEITNER

NORTHING: 512025.8
EASTING: 12772784.8

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	671.90						
0	SP-SAND (FILL), and slag, fine grained, poorly graded, dark gray, dry	670.90		0-2' -191				0.0
2	SP-SAND (FILL), trace silt, loose, fine grained, poorly graded, light brown, moist			1DP 2-4' -192		50		0.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -193				0.0
6	- trace slag at 6.0ft BGS			6-8' -194 2DP		60		0.0
8	- 6" sand and slag, dark gray at 8.0ft BGS	663.40						
	PT-PEAT (native), with clay, trace silt, loose, fiberous, dark brown, very moist	662.90		8-10' -195				0.0
10	SP-SAND (native), trace silt, compact, fine grained, poorly graded, brown, wet	661.90						
	- trace fine grained gravel at 9.8ft BGS							
12	END OF BOREHOLE @ 10.0ft BGS							
14								
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32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/30/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB223-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510504.47
EASTING: 12772948.71

GROUND SURFACE 677.06

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	676.56	CONCRETE					
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP		50		0.3
4								0.4
6			BACKFILLED WITH BENTONITE CHIPS					0.4
8	- with fine gravel at 7.0ft BGS			6-8' -003 2DP		65		
10				8-10' -004				0.5
12				10-12' -005				0.5
14	- orange brown, wet at 13.0ft BGS			3DP		65		0.6
16	END OF BOREHOLE @ 15.0ft BGS	662.06						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB224-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510498.03
EASTING: 12772948.28

GROUND SURFACE 677.23

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	676.63	CONCRETE	0-2' -006				0.8
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP 2-4' -007		60		1.2
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -008				1.0
6				6-8' -009 2DP		65		0.9
8				8-10' -010				0.7
10				10-12' -011				0.6
12	- wet at 13.0ft BGS			3DP				
14								
16	END OF BOREHOLE @ 15.0ft BGS	662.23						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB225-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510497.04
EASTING: 12772938.57

GROUND SURFACE 677.06

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.96	CONCRETE					
	CONCRETE	676.36		0-2' -012				0.9
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP 2-4' -013		75		1.1
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -014				1.0
6				6-8' -015/ 016 2DP		50		1.2
8				8-10' -017				1.0
10				10-12' -018				1.1
12	- wet at 13.0ft BGS			3DP		75		
14								
	END OF BOREHOLE @ 15.0ft BGS	662.06						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB226-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510496.72
EASTING: 12772929.96

GROUND SURFACE 677.08

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.98	CONCRETE					
	CONCRETE	676.28		0-2' -019				1.1
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP 2-4' -020		75		1.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -021				
6				6-8' -022 2DP				0.8
8						65		
				8-10' -023				0.9
10	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, light brown, moist	667.38						
	- gravelly sand, moderately graded at 11.8ft BGS			10-12' -024				1.0
12	- brown, wet at 13.0ft BGS			3DP		65		
14								1.1
	END OF BOREHOLE @ 15.0ft BGS	662.08						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB227-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510505.8
EASTING: 12772930.56
GROUND SURFACE 677.02

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.92	CONCRETE	0-2' -025				1.7
	CONCRETE	676.22						
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP 2-4' -026		75		1.6
4								
6			BACKFILLED WITH BENTONITE CHIPS	4-6' -027				1.4
8				6-8' -028 2DP		65		1.5
10				8-10' -029				
12	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, light brown, moist	665.02		10-12' -030				1.0
14	- wet at 13.0ft BGS			3DP		50		1.1
16	END OF BOREHOLE @ 15.0ft BGS	662.02						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB228-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510515.01
EASTING: 12772930.68

GROUND SURFACE 676.96

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.86	CONCRETE	0-2' -031				1.7
	CONCRETE	676.16						
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP 2-4' -032		80		1.8
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -033				
6								1.1
8				6-8' -034 2DP				
10				8-10' -035				1.0
12	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, light brown, moist	665.96		10-12' -036/ 037				1.0
14	- brown, wet at 13.0ft BGS			3DP				0.8
16	END OF BOREHOLE @ 15.0ft BGS	661.96						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB229-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510514.73
EASTING: 12772938.72

GROUND SURFACE 677.00

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.80	CONCRETE					
	CONCRETE	676.20						1.7
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP		80		
4								1.6
6			BACKFILLED WITH BENTONITE CHIPS					1.2
8				6-8' -038 2DP		75		
10				8-10' -039				1.3
12				10-12' -040				1.2
				3DP		75		
14	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, light brown, moist	664.00						1.1
16	END OF BOREHOLE @ 15.0ft BGS	662.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB230-13
DATE COMPLETED: April 23, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 510506.5
EASTING: 12772939.3

GROUND SURFACE 677.01

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	ASPHALT	676.81	CONCRETE					
	CONCRETE	676.21						1.4
2	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown, moist			1DP		85		
4								1.5
6			BACKFILLED WITH BENTONITE CHIPS					
				6-8' -041 2DP				1.6
8								
								1.6
10								
				10-12' -042				
12								1.3
				3DP				
	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, light brown, moist	664.01						1.1
14								
	END OF BOREHOLE @ 15.0ft BGS	662.01						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB232-13
DATE COMPLETED: April 24, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: D. RIVERS

NORTHING: 512180.8
EASTING: 12772781.25
GROUND SURFACE 671.68

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	BROKEN ASPHALT	671.48	CONCRETE	0-2' -050				1.2
2	FILL, mix of sand and slag debris, fine to coarse sand, fine sand to coarse gravel size slag debris, black, rust brown, bluish gray, moist	669.68 / 669.38		1DP 2-4' -051		70		1.1
4	SP-SAND (FILL), trace silt, compact, fine to coarse grained, poorly graded, brown, moist	668.18		4-6' -052				1.3
6	FILL, mix of sand and slag debris, fine to coarse sand, fine sand to coarse gravel size slag debris, black, rust brown, bluish gray, moist		BACKFILLED WITH BENTONITE CHIPS	6-8' -053 2DP				
8	SP-SAND (FILL), trace silt and fine gravel, compact, fine to coarse grained, poorly graded, brown and gray, moist, trace to with slag debris - trace slag debris at 5.5ft BGS - concrete debris at 7.0ft BGS	664.18 / 663.38		8-10' -054				1.0
10	PT-PEAT, trace silt and fine sand, firm, fibrous, dark brown to black, moist	661.68						
12	OL-ORGANIC SILT/MARL, with fine sand, soft, with fibers, grayish white, moist to wet							
	END OF BOREHOLE @ 10.0ft BGS							
14								
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 5/29/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB254-13
DATE COMPLETED: August 21, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 511901.1
EASTING: 12773010.96
GROUND SURFACE 676.76

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft
0	SP/GP-SAND AND GRAVEL, loose, fine sand, fine to coarse gravel, poorly graded, light brown, moist	676.26
2	SP-SAND, trace slag, trace fine gravel, compact, fine sand, poorly graded, brown, moist	
4		672.26
6	SP-SAND, trace slag, trace fine gravel, compact, fine sand, poorly graded, dark brown, moist - no slag at 5.5ft BGS	
8		667.76
10	SLUDGE-LIKE DEBRIS, trace slag, trace wood, white	667.01
12	SP-SAND, trace fine gravel, loose, fine sand, poorly graded, brown, moist - 1/2" sand seam, black, wet at 12.0ft BGS	664.76
14	SP-SAND, with fine gravel, trace silt, fine sand, poorly graded, brown, wet	663.76
16	PT-PEAT, trace silt and fines, soft, fibrous, black, moist	661.76
18	NO RECOVERY, trace silty clay, high plasticity, gray/brown, wet	
20	END OF BOREHOLE @ 20.0ft BGS	656.76
22		
24		
26		
28		
30		
32		
34		

TEMP MONITORING WELL

WELL DETAILS
Screened interval:
666.76 to 656.76ft
10.00 to 20.00ft BGS
Length: 10ft

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
				0.8
1DP		60		0.4
				0.9
				0.7
2DP		60		
9-9.75' -113				0.9
9.75-11' -114				0.4
3DP		60		0.8
4DP		0		

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB255-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510552.36
EASTING: 12772980.38

GROUND SURFACE 677.56

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE							
2				1DP		90		
4	SP-SAND, trace silt, compact, fine to medium grained, poorly graded, brown, moist	674.06	BACKFILLED WITH BENTONITE CHIPS					0.3
6								0.3
8	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	669.56		2DP		60		
10				8-10' -018				0.4
12								0.4
14	- medium gravel at 14.0ft BGS - wet at 15.0ft BGS			3DP 12-14' -017		90		
16	END OF BOREHOLE @ 16.0ft BGS	661.56		4DP		90		0.6
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB256-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510506.97
EASTING: 12772980.67

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	677.28						
0	CONCRETE (0.4ft)	676.61						
2	SP-SAND, compact, fine to medium grained, poorly graded, brown and dark brown, moist			0-2' -001				1.3
4				1DP 2-4' -002		75		1.2
6	SP-SAND, compact, fine grained, poorly graded, light brown, dry	672.78	BACKFILLED WITH BENTONITE CHIPS	4-6' -003				
8				6-8' -004 2DP		80		0.2
10	SP-SAND, with fine gravel, compact, medium to coarse grained, poorly graded, gray and light brown, dry	668.78		8-10' -005				1.1
12	SP-SAND, trace silt, compact, fine grained, poorly graded, light brown, moist	665.28		10-12' -006				1.7
14	SP-SAND, with fine gravel, compact, medium to coarse grained, poorly7 graded, brown, moist	663.28		3DP 12-14' -007		75		
16	- wet at 14.8ft BGS			14-15' -008				1.7
	END OF BOREHOLE @ 15.0ft BGS	662.28						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB257-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510477.97
EASTING: 12772981.18

GROUND SURFACE 677.12

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	676.12		0-2' -058				
2	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, light brown, moist			1DP 2-4' -059		80		0.1
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -060/ 061				1.2
6				6-8' -062/ 063 2DP				0.9
8	SP-SAND, with fine gravel, compact, fine to coarse grained, poorly graded, brown, moist	669.12		8-10' -064		90		0.7
10				10-12' -065				1.2
12				3DP 12-14' -066				0.5
14	- wet at 14.0ft BGS							
15	END OF BOREHOLE @ 15.0ft BGS	662.12						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB258-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510477.59
EASTING: 12772951.47

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.87						
0	CONCRETE	675.87		0-2' -051				
2	SP-SAND, trace fine gravel, compact, fine to coarse grained, poorly graded ,brown, moist			1DP 2-4' -052		80		1.0
4			BACKFILLED WITH BENTONITE CHIPS	4-6' -053				0.9
6				6-8' -054 2DP				0.1
8						80		
10				8-10' -055/ 056				0.2
12	- wet at 12.0ft BGS			10-12' -057				0.1
14				3DP		50		
15	END OF BOREHOLE @ 15.0ft BGS	661.87						
16								
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB259-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510506.08
EASTING: 12772905.27

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm)
	GROUND SURFACE	676.76						
0	CONCRETE	675.76		0-2' -034				
2	SP-SAND, compact, fine to medium grained, poorly graded, brown, moist			1DP 2-4' -035/ 036		80		0.8
4		672.76		4-6' -037				1.1
6	SP-SAND, trace fine gravel, compact, fine to coarse grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	6-8' -038 2DP		80		0.4
8								
10				8-10' -039				1.4
12	- wet at 13.0ft BGS			10-12' -040				1.4
14				3DP 12-14' -041		80		1.4
16	END OF BOREHOLE @ 15.0ft BGS	661.76						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB260-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510477.57
EASTING: 12772905.47

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
	GROUND SURFACE	676.64						
0	CONCRETE	675.64		0-2' -042				0.9
2	SP-SAND, compact, fine to medium grained, poorly graded, brown, moist			1DP 2-4' -043/ 044		75		1.1
4		671.64	BACKFILLED WITH BENTONITE CHIPS	4-6' -045/ 046				1.1
6	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, brown, moist			6-8' -047 2DP		60		1.3
8				8-10' -048				1.1
10				10-12' -049				1.1
12	- wet at 13.0ft BGS			3DP 12-14' -050		60		
14								
16	END OF BOREHOLE @ 15.0ft BGS	661.64						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB261-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510551.61
EASTING: 12772905.35

GROUND SURFACE 676.00

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE	675.00		0-2' -027				1.0
2	SP-SAND, trace fine gravel, compact, fine to medium grained, poorly graded, brown, moist	673.00		1DP 2-4' -028		75		
4	SP-SAND, trace fine and coarse gravel, compact, fine to coarse grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	4-6' -029				1.2
6				6-8' -030 2DP				1.1
8						80		
10				8-10' -031				1.3
12				10-12' -032				1.4
14	- wet at 14.0ft BGS			3DP 12-14' -033		60		1.4
16	END OF BOREHOLE @ 16.0ft BGS	660.00						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB262-13
DATE COMPLETED: August 19, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 510553.09
EASTING: 12772951.03
GROUND SURFACE 677.18

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm)
0	CONCRETE							--
2	- trace slag at 3.0ft BGS	673.68		1DP 2-4' -019		100		0.1
4	SP-SAND, trace silt, trace fine gravel, compact, fine to coarse grained, poorly graded, brown, moist		BACKFILLED WITH BENTONITE CHIPS	4-6' -020				0.8
6				6-8' -021 2DP		75		
8	SP-SAND, trace fine gravel, compact, medium to coarse grained, poorly graded, brown, moist	669.18		8-10' -022/ 023'				1.1
10				10-12' -024/ 025				1.2
12	SP-SAND, with fine to coarse gravel, compact, medium to coarse grained, poorly graded, moist	665.18		3DP 12-14' -026		80		1.4
14	- wet at 14.0ft BGS							
16	END OF BOREHOLE @ 16.0ft BGS	661.18						
18								
20								
22								
24								
26								
28								
30								
32								
34								

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 9/24/13

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: FORMER GRAND RAPIDS METAL PLANT
PROJECT NUMBER: 017360
CLIENT: RACER TRUST
LOCATION: WYOMING, MI

HOLE DESIGNATION: SB277-13
DATE COMPLETED: October 22, 2013
DRILLING METHOD: DIRECT PUSH
FIELD PERSONNEL: M. RAMSEY

NORTHING: 512167.57
EASTING: 12772788.38
GROUND SURFACE 671.85

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft
0	ASPHALT	671.52
	SP-SAND AND SLAG, loose, fine to coarse grained, poorly graded, black, moist	669.85
2	SP-SAND, with fine gravel, loose, fine to coarse grained, poorly graded, dark brown, moist	668.35
4	SP-SAND, loose, fine to medium grained, poorly graded, brown, moist	
	- trace slag at 5.0ft BGS	666.35
6	PT-PEAT, compact, fine grained, poorly graded, black and red brown, moist	
8	ML-SILT, compact, fine grained, poorly graded, light gray, light brown and red brown, very moist, stratified	663.85
10	END OF BOREHOLE @ 10.0ft BGS	661.85
12		
14		
16		
18		
20		
22		
24		
26		
28		
30		
32		
34		

BOREHOLE: CONCRETE; BACKFILLED WITH BENTONITE CHIPS

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm)
0-2' -040				0.0
1DP 2-4' -041		60		0.0
4-6' -042				0.0
6-8' -043 2DP		50		0.0
8-10' -044				0.0

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

CHEMICAL ANALYSIS ( )

OVERBURDEN LOG 017360-T05WIN.GPJ CRA_CORP.GDT 1/28/14

Appendix D

Notification of PCB Waste Activity Form and Documentation

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

PARCELL B
GMC CPC GRAND RAPIDS METAL PLT
300 36TH ST SW
GRAND RAPIDS, MI 49548

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

(TS-798)
May 24, 1990
2641

Subject: Notification of PCB Activity

Thank you for filing the Notification of PCB Activity form dated March 29, 1990 for the facility location listed below:

GMC CPC GRAND RAPIDS METAL PLT
300 36TH ST SW
GRAND RAPIDS, MI 49548

Please be advised that the EPA Identification Number for the above facility is correctly stated on your form as MID006020408.

If you have any questions on the EPA ID, call 301 294-2811. If you have any questions on the interpretation of PCB Waste Handlers rules, call 202 382-3933.

Sincerely,

Tony Baney, Chief
Chemical Regulation Branch

Printed on Recycled Paper

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

No information on this form may be claimed as TSCA CBI.

Return To:

Chemical Regulation Branch
Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

TSCA PCB ID Number

I. Name of Facility: GM CPC Grand Rapids Metal Plant

Name of Owner of Facility: General Motors

II. EPA Identification Number (If already assigned under RCRA): MID 006020408

III. Facility Mailing Address (Street or PO Box, City, State, & ZIP Code):
CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

IV. Location of Facility (No. & Street, City, State, & ZIP Code):
CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

V. Installation Contact (Name and Title):
B. Parcell
Chief Powerhouse Engineer

Telephone Number (Area Code and Number):
(616) 246-2870

VI. Type of PCB Activity (Mark 'X' in appropriate box. See instructions.)

- [X] A. Generator with onsite storage facility
- [ ] B. Storer (Commercial)
- [ ] C. Transporter
- [ ] D. Permitted Disposer

VII. Certification

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

Paperwork Reduction Act Notice

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EPA Form 7710-53(12-89)

RECEIVED 4-10-90

002642

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

No information on this form may be claimed as TSCA CBI.

Return To:

Chemical Regulation Branch
Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

TSCA PCB ID Number

I. Name of Facility	Name of Owner of Facility	II. EPA Identification Number (If already assigned under RCRA)
GM CPC Grand Rapids Metal Plant	General Motors	MID 006020408

III. Facility Mailing Address (Street or PO Box, City, State, & ZIP Code)

CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

IV. Location of Facility (No. & Street, City, State, & ZIP Code)

CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

V. Installation Contact (Name and Title)

B. Parcell
Chief Powerhouse Engineer

Telephone Number (Area Code and Number)

(616) 246-2870

VI. Type of PCB Activity (Mark 'X' in appropriate box. See instructions.)

- [X] A. Generator with onsite storage facility
- [ ] B. Storer (Commercial)
- [ ] C. Transporter
- [ ] D. Permitted Disposer

VII. Certification

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

Paperwork Reduction Act Notice

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United States Environmental Protection Agency
Washington, DC 20460

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Name of Owner of Facility: General Motors

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300 - 36th Street S.W.
Grand Rapids, Mich. 49548

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300 - 36th Street S.W.
Grand Rapids, Mich. 49548

V. Installation Contact (Name and Title):
B. Parcell
Chief Powerhouse Engineer

Telephone Number (Area Code and Number):
(616) 246-2870

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Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

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EPA Form 7710-53(12-89)

RECEIVED 4-10-90 002643

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

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Return To:

Chemical Regulation Branch
Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

TSCA PCB ID Number

I. Name of Facility: GM CPC Grand Rapids Metal Plant

Name of Owner of Facility: General Motors

II. EPA Identification Number (If already assigned under RCRA): MID 006020408

III. Facility Mailing Address (Street or PO Box, City, State, & ZIP Code):
CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

IV. Location of Facility (No. & Street, City, State, & ZIP Code):
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300 - 36th Street S.W.
Grand Rapids, Mich. 49548

V. Installation Contact (Name and Title):
B. Parcell
Chief Powerhouse Engineer

Telephone Number (Area Code and Number):
(616) 246-2870

VI. Type of PCB Activity (Mark 'X' in appropriate box. See instructions.)

- [X] A. Generator with onsite storage facility
- [ ] B. Storer (Commercial)
- [ ] C. Transporter
- [ ] D. Permitted Disposer

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Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

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EPA Form 7710-53(12-89)

ATTACHMENT 1
Documentation of Certifier's Knowledge of the Truth and Accuracy of Information submitted in EPA's Form 7710-53.

TO BE COMPLETED BY ENVIRONMENTAL ENGINEER:

This is to confirm that I, Bob Parcell (Title, e.g., Env'tl Eng'nr),

provided Don Mayton (certifier of Form 7710-53) with the information necesary to complete Form 7710-53. The information I provided was based upon my first-hand knowledge of the matter which is the subject of the Form in question; I have obtained this knowledge as a result of my work experience.

TO BE COMPLETED BY PLANT MANAGER (OR OTHER CERTIFIER OF FORM 7710-53):

This document also confirms that I, Don Mayton (certifier of form),

spoke with Bob Parcell (individual with personal knowledge) regarding the subject matter of Form 7710-53 and that, based upon that discussion, I am comfortable that the information provided to me was true, accurate and complete.

Briefly specify manner of communications between manager and individual with personal knowledge (e.g., verbal communications during meeting of (date)):

(Certifier's signature)	(Signature of individual with personal knowledge)
Plant Manager	Chief Engineer
(Title)	(Title)
3/29/90	3/28/90
(Date)	(Date)

CONESTOGA-ROVERS & ASSOCIATES

200 W. Allegan Street, Suite 300
Plainwell, Michigan 49080-1397
Telephone: (269) 685-5181 Fax: (269) 685-5223
www.CRAworld.com

November 18, 2014 Reference No. 017360

Mr. Peter Ramanauskas
U.S. Environmental Protection Agency – Region V
77 West Jackson Boulevard LU-9J
Chicago, Illinois 60604-3507

Dear Mr. Ramanauskas:

Re: Addendum to Risk-Based Polychlorinated Biphenyl (PCB) Cleanup Plan
Former General Motors (GM) Grand Rapids Metal Plant Property
300 36th Street SW, Wyoming, Kent County, Michigan

Conestoga-Rovers & Associates, Inc. (CRA), on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, submitted a Risk-Based PCB Cleanup Plan (Plan) to the United States Environmental Protection Agency (U.S. EPA) and the Michigan Department of Environmental Quality (MDEQ) on August 26, 2014 for a coordinated review and approval. Based on discussions with Ms. Darlene Stringer of the MDEQ and Ms. Jean Greensley of the U.S. EPA, several comments were generated as a result of each agency's review of the Plan. These comments are addressed below.

Self-Implementing Cleanup

Based on discussions with the U.S. EPA on November 5, 2014, the Plan originally submitted for risk-based approval can be completed utilizing the self-implementing cleanup procedures under 40 Code of Federal Regulations (CFR) 761.61(a). This letter serves as RACER's intent and notification to self-implement the cleanup originally proposed in the previously submitted Plan. Post-cleanup verification sampling will follow guidelines established under Subpart O and a cleanup completion summary report will be submitted within 60 days after completion of the proposed cleanup.

Porous Surface Material Sampling Plan

Based on the discussions with U.S. EPA, concrete and asphalt surface materials currently covering the two proposed excavation areas of PCB-containing soil require sampling for characterization of the materials for disposal. Porous surface material samples will be collected from each area in accordance with self-implementing cleanup procedures presented in 40 CFR 761.61(a) and U.S. EPA's *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls* (U.S. EPA, 2011).

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Porous surface material sample locations in each area will be selected based on a 3-meter grid placed over the proposed area of surface material removal. A minimum of three samples of each type of porous surface material will be collected from each area pursuant to 40 CFR 761.283(a). Samples collected from each type of material will be composited (to the extent possible) in accordance with 40 CFR 761.286. The proposed grid placement and composite sample locations are presented in Figures 1 and 2 for the former Tar House and Bulk Unload Areas, respectively. Samples will be collected from the upper 3 inches of porous material. Pulverized porous material samples will be collected utilizing a rotary impact hammer drill, placed in laboratory-cleaned sample jars, placed on ice, and submitted to the analytical laboratory under standard Chain-of-Custody (COC) protocol.

Former Tar House

The surface material in the proposed area of excavation in the former Tar House Area is primarily composed of concrete, with a portion covered by asphalt. Based on the size of the proposed excavation area, three composite samples of asphalt and three composite samples of concrete will be collected for laboratory analysis for PCBs. Figure 1 presents the proposed sample locations.

Bulk Unload Area

The surface material in the proposed area of excavation in the Bulk Unload Area is composed of asphalt. Based on the size of the proposed area of excavation, three composite samples of asphalt will be collected for laboratory analysis for PCBs. Figure 2 presents the proposed sample locations.

Disposal Facility Notification

Pursuant to the requirements under 40 CFR 761.61(a), RACER will provide written notice to the disposal facility, including the estimated quantity to be shipped and highest concentrations of PCBs at least 15 days prior to the first shipment of bulk PCB remediation waste to the off-Site disposal facility.

Post-Remediation Restrictions

The Plan also specifies deed restrictions that will be placed on the Site consistent with 40 CFR 761.61(a)(8). The deed restrictions will identify use restrictions, occupancy designations, where caps are present on the property, maintenance requirements and the remaining PCB concentrations. The proposed cleanup level for on-Site contamination is 10 parts per million (ppm), which allows for the areas to be utilized in a manner in the future that would meet the definition of a Low Occupancy Area under 40 CFR 761 without further conditions. A 10 ppm cleanup level would also allow use of the areas in a manner in the future that, with the addition of a cap, could meet the requirements for a High Occupancy Area.

In response to discussions with U.S. EPA, additional information will be included in the proposed deed restriction requiring current and future property owners to notify the U.S. EPA if a specific area restricted as a Low Occupancy Area is to be designated as a High Occupancy Area after the owner's construction of a cap meeting the requirements specified in 40 CFR 761.61(a)(7). The deed restriction will also specify the land owner's responsibility to follow the monitoring and maintenance requirements specified in 40 CFR 761.61(a)(8) after construction of an approved cap.

Bulk Unload Area – Extent of Excavation

Based on the coordinated review of the Plan, a discrepancy was found between the text of the Plan and Figure 6 identifying the extent of excavation to occur in the Bulk Unload Area. Section 4.4.1.2 of the Plan incorrectly states that the southern extent of the excavation is in the approximate location of SB212-12. The correct location of the southern extent of excavation is in approximate location of SB149-11. Figure 6 correctly presents the proposed extent of excavation.

Estimated Schedule

The porous material sampling is expected to be completed in December 2014. The excavation scope of work of both areas described in the submitted Plan is anticipated to be completed during the 2015 construction season. Required notifications under 40 CFR 761.61(a) will be completed prior to commencement of planned remediation activities.

CONESTOGA-ROVERS & ASSOCIATES

November 18, 2014 Reference No. 017360

Please contact the undersigned at (269) 685-5181 should you have any questions regarding this Summary.

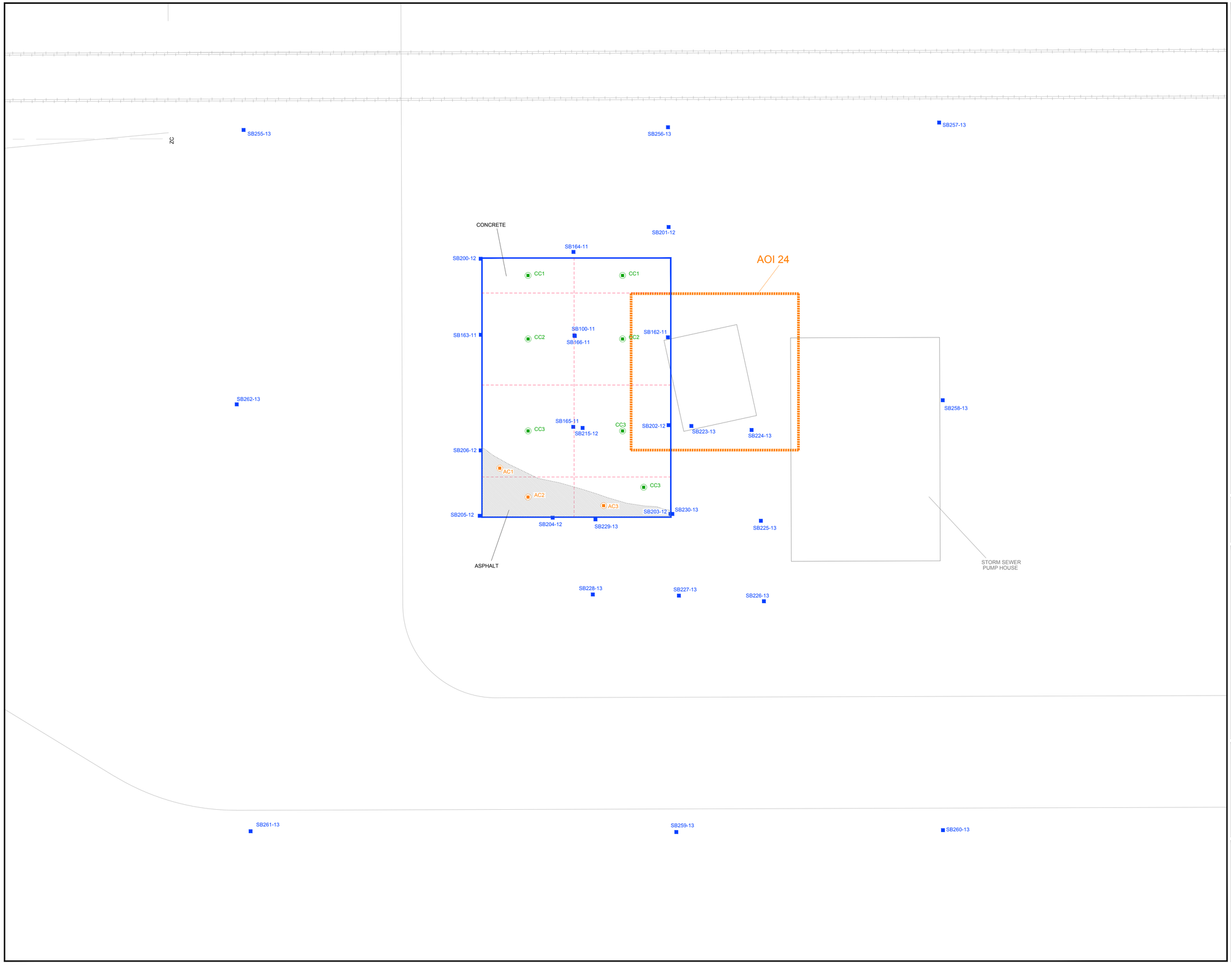
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Jennifer L. Quigley, P.E.

EB/1/jlc/Plw.
Encl.

cc: Jean Greensley, U.S. EPA, Region 5
Darlene Stringer, MDEQ
Deborah MacKenzie-Taylor, MDEQ
Adam London, Kent County Health Department
David Favero, RACER Trust

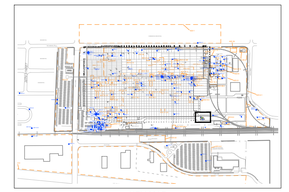


Nº	Revision	Date	Initial

0 3 5ft

LEGEND

- SB261-13 SOIL BORING LOCATIONS
- APPROXIMATE SITE BOUNDARY
- FENCE
- RAILROAD
- APPROXIMATE AOI
- APPROXIMATE EXCAVATION AREA
- 3-METER GRID FOR SAMPLE SELECTION
- CONCRETE CORE COMPOSITE SAMPLE LOCATION
- ASPHALT CORE SAMPLE LOCATION



KEY MAP

SCALE VERIFICATION

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Approved

DRAWING STATUS

Status	Date	Initial

PROPOSED POROUS SURFACE SAMPLE LOCATIONS

FORMER TAR HOUSE

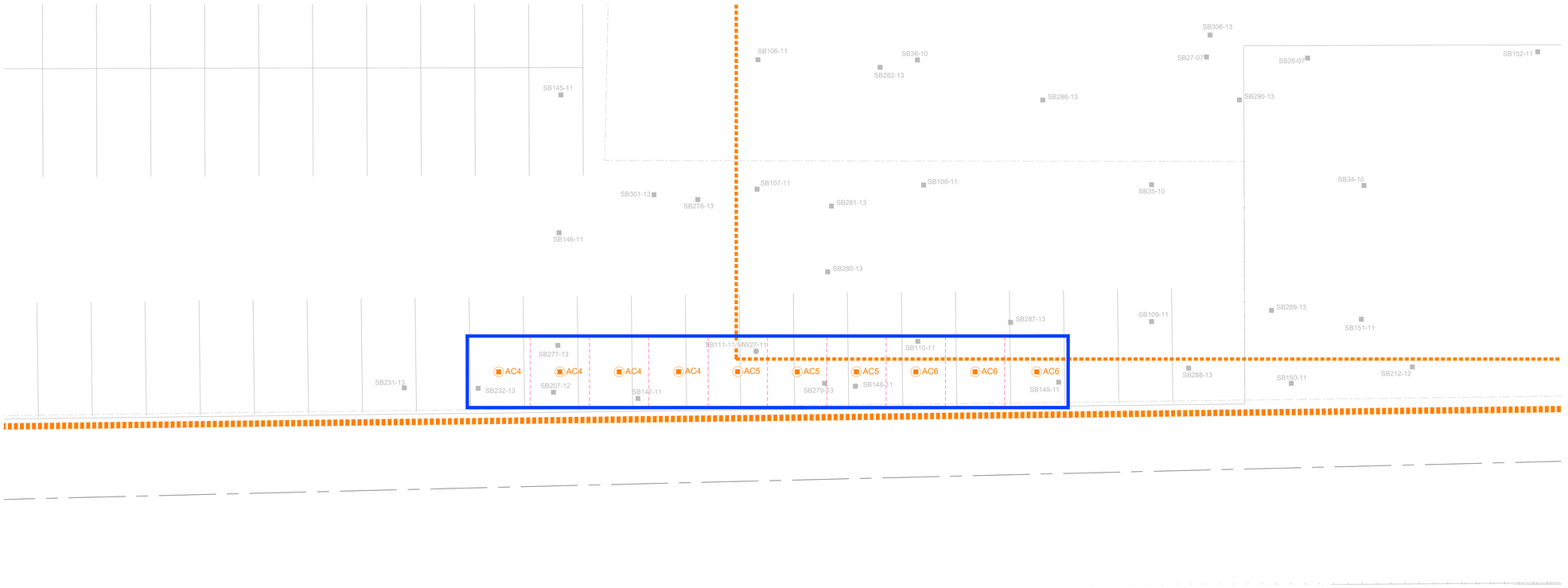
FORMER GRAND RAPIDS METAL PLANT WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. Q.	E. B.	NOVEMBER 2014	
Scale: 1:5	Project Nº: 017360-T12	Report Nº: RAMA001	Drawing Nº: Figure 1

017360-T12(RAMA001)GN-DE001 NOV 11/2014



Nº	Revision	Date	Initial

0 5 10ft

LEGEND

- SB295-13 SOIL BORING LOCATIONS
- APPROXIMATE SITE BOUNDARY
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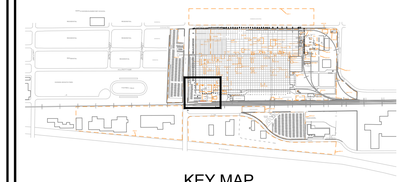
- RAILROAD
- APPROXIMATE AOI
- APPROXIMATE EXCAVATION AREA
- 3-METER GRID FOR SAMPLE SELECTION
- ASPHALT CORE COMPOSITE SAMPLE LOCATION



KEY MAP

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DRAWING STATUS

Status	Date	Initial

PROPOSED POROUS SURFACE SAMPLE LOCATIONS

BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	NOVEMBER 2014	
Scale:	Project Nº:	Report Nº:	Drawing Nº:
1:15	017360-T12	RAMA001	Figure 2

CONESTOGA-ROVERS
& ASSOCIATES

200 W. Allegan Street, Suite 300
Plainwell, Michigan 49080-1397
Telephone: (269) 685-5181 Fax: (269) 685-5223
www.CRAworld.com

March 3, 2015 Reference No. 017360

Mr. Peter Ramanauskas
United States Environmental Protection Agency – Region 5
77 West Jackson Boulevard, LU-9J
Chicago, Illinois 60604-3507

Dear Mr. Ramanauskas:

Re: Addendum 2 to Risk-Based Polychlorinated Biphenyl (PCB) Cleanup Plan
Former General Motors (GM) Grand Rapids Metal Plant Property
300 36th Street SW
Wyoming, Kent County, Michigan

Conestoga-Rovers & Associates, Inc. (CRA), on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust, submitted a Risk-Based PCB Cleanup Plan (Plan) to the United States Environmental Protection Agency (U.S. EPA) and the Michigan Department of Environmental Quality (MDEQ) on August 26, 2014 for a coordinated review and approval. Based on discussions with Ms. Darlene Stringer of the MDEQ and Ms. Jean Greensley of the U.S. EPA, several comments were generated as a result of each agency's review of the Plan. The comments were addressed in a letter dated November 18, 2014, which was submitted to the U.S. EPA, and through the implementation of additional sampling described herein.

1.0 Porous Surface Material Sampling

Based on the discussions with U.S. EPA, concrete and asphalt surface materials currently covering the two proposed excavation areas of PCB-containing soil require sampling for characterization of the materials for disposal. Additionally, one sample from a small (i.e., 2 feet by 2 feet) area of mastic on the concrete was collected. Porous surface material samples were collected on November 26, 2014 from each area in accordance with self-implementing cleanup procedures presented in 40 CFR 761.61(a) and U.S. EPA's *Standard Operating Procedure for Sampling Porous Surfaces for Polychlorinated Biphenyls* (U.S. EPA, 2011).

Porous surface material sample locations in each area were selected based on a 3-meter grid placed over the proposed area of surface material removal. A minimum of three samples of each type of porous surface material were collected from each area pursuant to

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40 CFR 761.283(a), with the exception of the mastic due to the size of the area. Due to the size of the area of the mastic, collection of three samples could not be completed due to insufficient sample volume for analysis. Samples collected from each type of material were composited (to the extent possible) in accordance with 40 CFR 761.286. The grid placement and composite sample locations are presented on Figures 1 and 2 for the former Tar House and Bulk Unload Areas, respectively. Samples were collected from the upper 3 inches of porous material. Pulverized porous material samples were collected utilizing a rotary impact hammer drill, placed in laboratory-cleaned sample jars, placed on ice, and submitted to the analytical laboratory under standard Chain-of-Custody (COC) protocol.

1.1 Former Tar House

The surface material in the proposed area of excavation in the former Tar House Area is primarily composed of concrete, with a portion covered by asphalt and a small (i.e., 2 feet by 2 feet) area of mastic. Based on the size of the proposed excavation area, three composite samples of asphalt (EB-001, EB-006 and EB-007), three composite samples of concrete (EB-002, EB-003, EB-004, and EB-005 [duplicate of EB-004]), and one discrete sample of mastic (EB-011) were collected for laboratory analysis for PCBs. Figure 1 presents the sample locations.

1.2 Bulk Unload Area

The surface material in the proposed area of excavation in the Bulk Unload Area is composed of asphalt. Based on the size of the proposed area of excavation, three composite samples of asphalt (EB-008 (MS/MSD), EB-009 and EB-010) were collected for laboratory analysis for PCBs. Figure 2 presents the sample locations.

2.0 Porous Surface Material Results

2.1 Former Tar House

No PCBs were detected in the concrete, asphalt or mastic samples collected. Analytical results are presented in Attachment A.

2.2 Bulk Unload Area

PCBs (Aroclor 1260) were detected in composite asphalt samples EB-008 and EB-010 at concentrations of 2.2 and 0.085 parts per million (ppm), respectively. PCBs were not detected in composite asphalt sample EB-009. Analytical results are presented in Attachment A.

3.0 Conclusions

Based on the pre-cleanup characterization, all overlying materials to be removed during the implementation of the remedial activities (i.e., concrete, asphalt and/or mastic) have a PCB concentration of less than 50 ppm. Consistent with 40 CFR 761.61(a)(5)(i)(B)(2)(ii), the overlying materials with PCB concentrations less than 50 ppm will be disposed of at Waste Management's Autumn Hills Landfill in Zeeland, Michigan, upon profile approval.

Please contact the undersigned at 269.685.5181 should you have any questions regarding this letter.

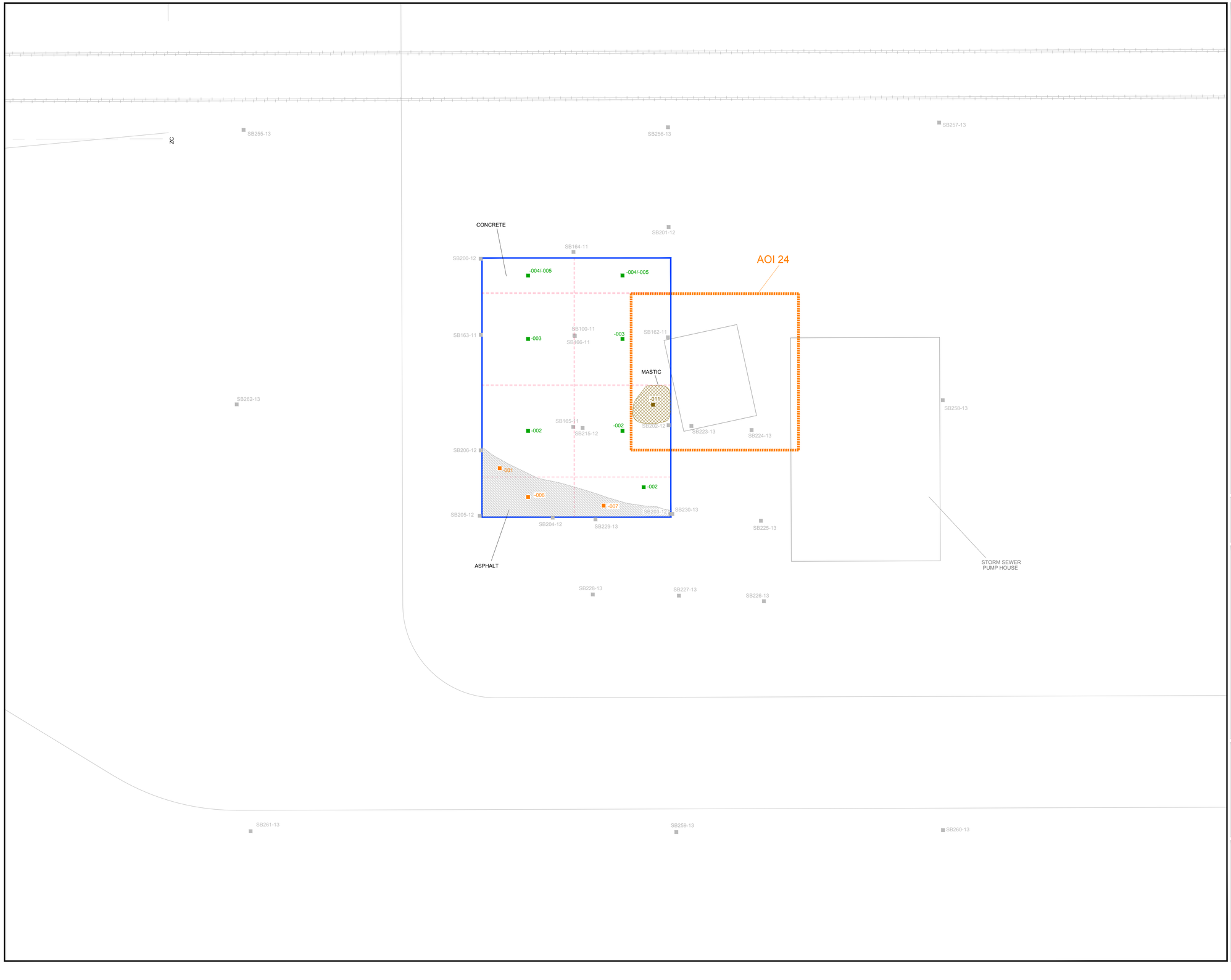
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Jennifer L. Quigley, P.E.

JQ/ds/2/Pwl.
Encl.

cc: Jean Greensley, U.S. EPA, Region 5
Darlene Stringer, MDEQ
Deborah MacKenzie-Taylor, MDEQ
Adam London, Kent County Health Department
David Favero, RACER Trust



Nº	Revision	Date	Initial

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LEGEND

- SB261-13 SOIL BORING LOCATIONS
- APPROXIMATE SITE BOUNDARY
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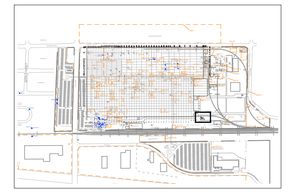
- 3-METER GRID FOR SAMPLE SELECTION
- CONCRETE CORE COMPOSITE SAMPLE LOCATION
- ASPHALT CORE SAMPLE LOCATION
- MASTIC SAMPLE LOCATION



KEY MAP

SCALE VERIFICATION

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Approved

DRAWING STATUS

Status	Date	Initial

POROUS SURFACE SAMPLE LOCATIONS

FORMER TAR HOUSE

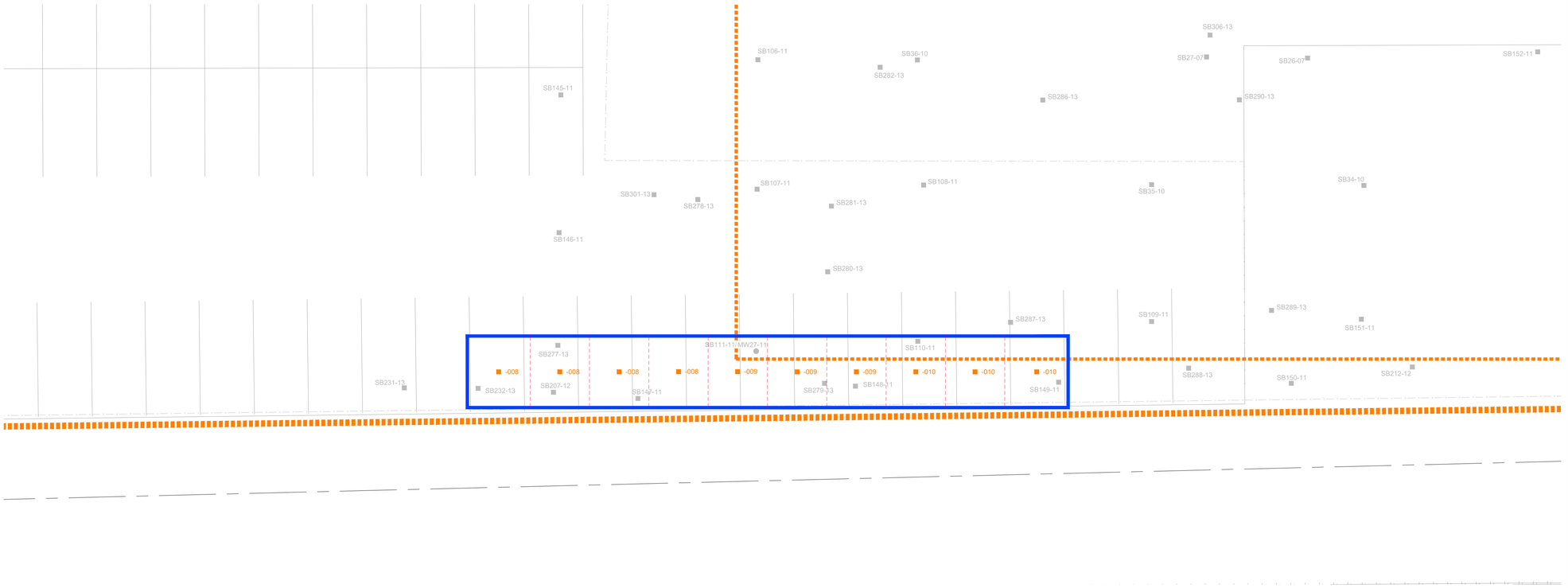
FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J. Q.	E. B.	MARCH 2015	
Scale: 1:5	Project Nº: 017360-T12	Report Nº: RAMA002	Drawing Nº: Figure 1

017360-T12(RAMA002)GN-DE001 MAR 2/2015



Nº	Revision	Date	Initial

0 5 10ft

LEGEND

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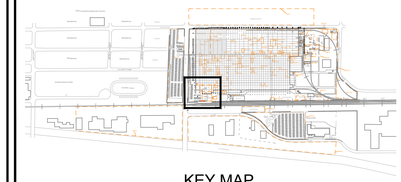
- ASPHALT CORE COMPOSITE SAMPLE LOCATION



KEY MAP

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Approved

DRAWING STATUS

Status	Date	Initial

POROUS SURFACE SAMPLE LOCATIONS

BULK UNLOAD AREA

FORMER GRAND RAPIDS METAL PLANT
WYOMING, MICHIGAN

CONESTOGA-ROVERS & ASSOCIATES

Source Reference:

Project Manager:	Reviewed By:	Date:	
J.Q.	E.B.	MARCH 2015	
Scale: 1:15	Project Nº: 017360-T12	Report Nº: RAMA002	Drawing Nº: Figure 2

017360-T12(RAMA002)GN-DE002 MAR 2/2015

Attachment A

Analytical Laboratory Data

08-Dec-2014

Rawa Fleisher
Conestoga-Rovers & Associates
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **14111385**

Dear Rawa,

ALS Environmental received 11 samples on 26-Nov-2014 11:50 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

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ALS Group USA, Corp

Date: 08-Dec-14

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: **14111385**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
14111385-01	CC-173360-112514-EB-001	Solid		11/25/2014 14:30	11/26/2014 11:50	☐
14111385-02	CC-17360-112514-EB-002	Solid		11/25/2014 14:40	11/26/2014 11:50	☐
14111385-03	CC-17360-112514-EB-003	Solid		11/25/2014 14:55	11/26/2014 11:50	☐
14111385-04	CC-17360-112514-EB-004	Solid		11/25/2014 15:20	11/26/2014 11:50	☐
14111385-05	CC-17360-112514-EB-005	Solid		11/25/2014 15:40	11/26/2014 11:50	☐
14111385-06	CC-17360-112614-EB-006	Solid		11/25/2014 09:15	11/26/2014 11:50	☐
14111385-07	CC-17360-112614-EB-007	Solid		11/26/2014 09:25	11/26/2014 11:50	☐
14111385-08	CC-17360-112614-EB-008	Solid		11/26/2014 09:45	11/26/2014 11:50	☐
14111385-09	CC-17360-112614-EB-009	Solid		11/26/2014 09:55	11/26/2014 11:50	☐
14111385-10	CC-17360-112614-EB-010	Solid		11/26/2014 10:15	11/26/2014 11:50	☐
14111385-11	M-17360-112614-EB-011	Solid		11/26/2014 10:30	11/26/2014 11:50	☐

ALS Group USA, Corp

Date: 08-Dec-14

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385

Case Narrative

Batch 65525, Method PCB_8082_S, Sample 14111385-08A MSD: The MSD recovery for Aroclor 1260 was outside of the control limit. However, the MS recovery and the RPD between the MS and MSD was in control. No qualification is required.

Batch R153498, Method MOISTURE, Sample 14111385-08A DUP: Duplicate moisture analysis failed, so the sample was reprepped in another batch and run as a duplicate again. Both of those results matched the original analytical results. No qualification is required.

ALS Group USA, Corp

Date: 08-Dec-14

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
WorkOrder: **14111385**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-173360-112514-EB-001
Lab ID: 14111385-01
Collection Date: 11/25/2014 02:30 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1221	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1232	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1242	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1248	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1254	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Aroclor 1260	ND		110	µg/Kg-dry	1	12/1/2014 08:46 PM
Surr: Decachlorobiphenyl	*45.0*		*40-140*	*%REC*	1	12/1/2014 08:46 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**22**		**0.050**	**% of sample**	1	12/1/2014 10:20 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112514-EB-002
Lab ID: 14111385-02
Collection Date: 11/25/2014 02:40 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1221	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1232	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1242	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1248	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1254	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Aroclor 1260	ND		97	µg/Kg-dry	1	12/1/2014 07:09 PM
Surr: Decachlorobiphenyl	*82.1*		*40-140*	*%REC*	1	12/1/2014 07:09 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**19**		**0.050**	**% of sample**	1	12/1/2014 10:20 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360) **Work Order:** 14111385
Sample ID: CC-17360-112514-EB-003 **Lab ID:** 14111385-03
Collection Date: 11/25/2014 02:55 PM **Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1221	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1232	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1242	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1248	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1254	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Aroclor 1260	ND		98	µg/Kg-dry	1	12/1/2014 07:25 PM
Surr: Decachlorobiphenyl	*77.1*		*40-140*	*%REC*	1	12/1/2014 07:25 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**17**		**0.050**	**% of sample**	1	12/1/2014 10:20 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112514-EB-004
Lab ID: 14111385-04
Collection Date: 11/25/2014 03:20 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1221	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1232	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1242	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1248	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1254	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Aroclor 1260	ND		89	µg/Kg-dry	1	12/1/2014 07:41 PM
Surr: Decachlorobiphenyl	*84.1*		*40-140*	*%REC*	1	12/1/2014 07:41 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**7.4**		**0.050**	**% of sample**	1	12/1/2014 10:20 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112514-EB-005
Lab ID: 14111385-05
Collection Date: 11/25/2014 03:40 PM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1221	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1232	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1242	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1248	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1254	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Aroclor 1260	ND		86	µg/Kg-dry	1	12/1/2014 07:58 PM
Surr: Decachlorobiphenyl	*83.1*		*40-140*	*%REC*	1	12/1/2014 07:58 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**8.9**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112614-EB-006
Lab ID: 14111385-06
Collection Date: 11/25/2014 09:15 AM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1221	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1232	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1242	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1248	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1254	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Aroclor 1260	ND		92	µg/Kg-dry	1	12/1/2014 09:02 PM
Surr: Decachlorobiphenyl	*47.0*		*40-140*	*%REC*	1	12/1/2014 09:02 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**9.3**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112614-EB-007
Lab ID: 14111385-07
Collection Date: 11/26/2014 09:25 AM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1221	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1232	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1242	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1248	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1254	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Aroclor 1260	ND		89	µg/Kg-dry	1	12/1/2014 09:18 PM
Surr: Decachlorobiphenyl	*41.0*		*40-140*	*%REC*	1	12/1/2014 09:18 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**6.7**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112614-EB-008
Lab ID: 14111385-08
Collection Date: 11/26/2014 09:45 AM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/2/14	Analyst: **BLM**
Aroclor 1016	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1221	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1232	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1242	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1248	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1254	ND		170	µg/Kg-dry	2	12/2/2014 08:58 PM
Aroclor 1260	**2,200**		**170**	**µg/Kg-dry**	2	12/2/2014 08:58 PM
Surr: Decachlorobiphenyl	*62.1*		*40-140*	*%REC*	2	12/2/2014 08:58 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**3.5**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112614-EB-009
Lab ID: 14111385-09
Collection Date: 11/26/2014 09:55 AM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1221	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1232	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1242	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1248	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1254	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Aroclor 1260	ND		85	µg/Kg-dry	1	12/1/2014 10:23 PM
Surr: Decachlorobiphenyl	*51.1*		*40-140*	*%REC*	1	12/1/2014 10:23 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**3.8**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360)
Work Order: 14111385
Sample ID: CC-17360-112614-EB-010
Lab ID: 14111385-10
Collection Date: 11/26/2014 10:15 AM
Matrix: SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1221	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1232	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1242	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1248	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1254	ND		81	µg/Kg-dry	1	12/1/2014 10:39 PM
Aroclor 1260	**85**		**81**	**µg/Kg-dry**	1	12/1/2014 10:39 PM
Surr: Decachlorobiphenyl	*53.1*		*40-140*	*%REC*	1	12/1/2014 10:39 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**2.3**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *08-Dec-14*

Client: Conestoga-Rovers & Associates
Project: Former GRMP (17360) **Work Order:** 14111385
Sample ID: M-17360-112614-EB-011 **Lab ID:** 14111385-11
Collection Date: 11/26/2014 10:30 AM **Matrix:** SOLID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 12/1/14	Analyst: **BLM**
Aroclor 1016	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1221	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1232	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1242	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1248	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1254	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Aroclor 1260	ND		240	µg/Kg-dry	1	12/1/2014 08:14 PM
Surr: Decachlorobiphenyl	*84.1*		*40-140*	*%REC*	1	12/1/2014 08:14 PM
MOISTURE			**A2540 G**			Analyst: **EVB**
Moisture	**0.76**		**0.050**	**% of sample**	1	12/1/2014 03:00 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 08-Dec-14

Client: Conestoga-Rovers & Associates

Work Order: 14111385

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **65525** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-65525-65525** Units: **µg/Kg** Analysis Date: **12/1/2014 06:21 PM**

Client ID: Run ID: **GC14_141201A** SeqNo: **3057186** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	83								
Aroclor 1221	ND	83								
Aroclor 1232	ND	83								
Aroclor 1242	ND	83								
Aroclor 1248	ND	83								
Aroclor 1254	ND	83								
Aroclor 1260	ND	83								
Surr: Decachlorobiphenyl	*28.67*	0	*33.3*	0	*86.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-65525-65525** Units: **µg/Kg** Analysis Date: **12/1/2014 06:37 PM**

Client ID: Run ID: **GC14_141201A** SeqNo: **3057187** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	761	83	833	0	91.4	50-130	0			
Aroclor 1260	782.7	83	833	0	94	50-130	0			
Surr: Decachlorobiphenyl	*30.33*	0	*33.3*	0	*91.1*	*40-140*	0			

MS Sample ID: **14111385-08A MS** Units: **µg/Kg** Analysis Date: **12/1/2014 09:51 PM**

Client ID: **CC-17360-112614-EB-008** Run ID: **GC14_141201A** SeqNo: **3057197** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	516.1	82	824.2	0	62.6	40-140	0			
Aroclor 1260	1643	82	824.2	627.1	123	40-140	0			
Surr: Decachlorobiphenyl	*14.51*	0	*32.95*	0	*44*	*40-140*	0			

MSD Sample ID: **14111385-08A MSD** Units: **µg/Kg** Analysis Date: **12/1/2014 10:07 PM**

Client ID: **CC-17360-112614-EB-008** Run ID: **GC14_141201A** SeqNo: **3057198** Prep Date: **12/1/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	620.5	83	824.8	0	75.2	40-140	516.1	18.4	50	
Aroclor 1260	2559	83	824.8	627.1	234	40-140	1643	43.6	50	S
Surr: Decachlorobiphenyl	*17.16*	0	*32.97*	0	*52.1*	*40-140*	14.51	*16.7*	*50*	

The following samples were analyzed in this batch:

14111385-01A	14111385-02A	14111385-03A
14111385-04A	14111385-05A	14111385-06A
14111385-07A	14111385-08A	14111385-09A
14111385-10A	14111385-11A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 14111385
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **65554** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-65554-65554** Units: **µg/Kg** Analysis Date: **12/2/2014 08:09 PM**
Client ID: Run ID: **GC14_141202A** SeqNo: **3060135** Prep Date: **12/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	ND	83								
Aroclor 1221	ND	83								
Aroclor 1232	ND	83								
Aroclor 1242	ND	83								
Aroclor 1248	ND	83								
Aroclor 1254	ND	83								
Aroclor 1260	ND	83								
Surr: Decachlorobiphenyl	*30.67*	0	*33.3*	0	*92.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-65554-65554** Units: **µg/Kg** Analysis Date: **12/2/2014 08:25 PM**
Client ID: Run ID: **GC14_141202A** SeqNo: **3060136** Prep Date: **12/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	824	83	833	0	98.9	50-130	0			
Aroclor 1260	842.3	83	833	0	101	50-130	0			
Surr: Decachlorobiphenyl	*31.67*	0	*33.3*	0	*95.1*	*40-140*	0			

MS Sample ID: **1412004-02A MS** Units: **µg/Kg** Analysis Date: **12/2/2014 10:03 PM**
Client ID: Run ID: **GC14_141202A** SeqNo: **3060140** Prep Date: **12/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	814	81	813.3	0	100	40-140	0			
Aroclor 1260	967.3	81	813.3	0	119	40-140	0			
Surr: Decachlorobiphenyl	*27.01*	0	*32.51*	0	*83.1*	*40-140*	0			

MSD Sample ID: **1412004-02A MSD** Units: **µg/Kg** Analysis Date: **12/2/2014 10:19 PM**
Client ID: Run ID: **GC14_141202A** SeqNo: **3060141** Prep Date: **12/2/2014** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	806.4	82	821.6	0	98.2	40-140	814	0.93	50	
Aroclor 1260	920.5	82	821.6	0	112	40-140	967.3	4.95	50	
Surr: Decachlorobiphenyl	*26.63*	0	*32.84*	0	*81.1*	*40-140*	27.01	*1.43*	*50*	

The following samples were analyzed in this batch: 14111385-08A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 14111385
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R153454** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R153454** Units: **% of sample** Analysis Date: **12/1/2014 10:20 AM**
Client ID: Run ID: **MOIST_141201A** SeqNo: **3057580** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R153454** Units: **% of sample** Analysis Date: **12/1/2014 10:20 AM**
Client ID: Run ID: **MOIST_141201A** SeqNo: **3057576** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **14111343-01B DUP** Units: **% of sample** Analysis Date: **12/1/2014 10:20 AM**
Client ID: Run ID: **MOIST_141201A** SeqNo: **3057532** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.87	0.050	0	0	0	0-0	13.13	2	20	

DUP Sample ID: **14111343-11B DUP** Units: **% of sample** Analysis Date: **12/1/2014 10:20 AM**
Client ID: Run ID: **MOIST_141201A** SeqNo: **3057555** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.48	0.050	0	0	0	0-0	13.11	4.92	20	

The following samples were analyzed in this batch:

14111385-01A	14111385-02A	14111385-03A
14111385-04A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Conestoga-Rovers & Associates
Work Order: 14111385
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R153498** Instrument ID **MOIST** Method: **A2540 G**

MBLK Sample ID: **WBLKS-R153498** Units: **% of sample** Analysis Date: **12/1/2014 03:00 PM**
Client ID: Run ID: **MOIST_141201B** SeqNo: **3058625** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	ND	0.050								

LCS Sample ID: **LCS-R153498** Units: **% of sample** Analysis Date: **12/1/2014 03:00 PM**
Client ID: Run ID: **MOIST_141201B** SeqNo: **3058624** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **14111372-01B DUP** Units: **% of sample** Analysis Date: **12/1/2014 03:00 PM**
Client ID: Run ID: **MOIST_141201B** SeqNo: **3058603** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	15.82	0.050	0	0	0	0-0	15.37	2.89	20	

DUP Sample ID: **14111385-08A DUP** Units: **% of sample** Analysis Date: **12/1/2014 03:00 PM**
Client ID: **CC-17360-112614-EB-008** Run ID: **MOIST_141201B** SeqNo: **3058609** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.52	0.050	0	0	0	0-0	3.51	25.2	20	R

The following samples were analyzed in this batch:

14111385-05A	14111385-06A	14111385-07A
14111385-08A	14111385-09A	14111385-10A
14111385-11A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Cincinnati, OH +1 513 733 5336 | Fort Collins, CO +1 970 490 1511 | Houston, TX +1 281 530 5656 | Spring City, PA +1 610 948 4903 | South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600 | Holland, MI +1 616 399 6070 | Middletown, PA +1 717 944 5541 | Salt Lake City, UT +1 801 266 7700 | York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 19577

ALS Project Manager: | ALS Work Order #: 1411385

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	4067604	Project Name	RACER - Former GR Plant	A	PCBs
Work Order	017360	Project Number	017360-T12744-02414	B	
Company Name	Conestoga-Rovers & Associates	Bill To Company	CRA	C	
Send Report To	Rawa Fleisher - CRA Plymouth	Invoice Attn	R. Fleisher	D	
Address	14496 Sheldon Rd Ste. 200	Address	← same	E	
City/State/Zip	Plymouth, MI 48170	City/State/Zip		F	
Phone		Phone		G	
Fax		Fax		H	
e-Mail Address	chendel@craworld.com	e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	CC-17360-112514-EB-001	11/25/14	1430	Concrete/Asphalt (EB)	none	1	X										
2	-002		1440	concrete		1											
3	-003		1455			1											
4	-004		1520			1											
5	-005		1540			1											
6	CC-17360-112614-EB-006	11/26/14	915	Asphalt		1											
7	-007		925			1											
8	-008		945			2		MS/MSD									
9	-009		955			1											
10	-010		1015														
11	M-17360-112614-EB-011		1030	Matrix		1											

Sampler(s) Please Print & Sign: Eric Butenburg

Shipment Method: Drop @ lab

Required Turnaround Time: (Check Box) ☐ Other ☒ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: | Date: 11-26-14 | Time: 1

Received by:

Notes: Sample -011 is assumed to be matrix...

Relinquished by: | Date: 11/26/14 | Time: 1150

Received by (Laboratory):

Logged by (Laboratory): KV | Date: 11/26/14 | Time: 1330

Checked by (Laboratory):

Cooler ID	Cooler Temp
	4.2°C

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☒ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2012 by ALS Environmental.

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **CRA - PLYMOUTH** Date/Time Received: **26-Nov-14 11:50**

Work Order: **14111385** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 26-Nov-14 (Date) Reviewed by: Chad Whelton (eSignature) 26-Nov-14 (Date)

Matrices: Solid

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.2 C		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/26/2014 1:38:15 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix B
Notification of PCB Waste Activity Form (U.S. EPA Form 7710-53)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

PARCELL B
GMC CPC GRAND RAPIDS METAL PLT
300 36TH ST SW
GRAND RAPIDS, MI 49548

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

(TS-798)
May 24, 1990
2641

Subject: Notification of PCB Activity

Thank you for filing the Notification of PCB Activity form dated March 29, 1990 for the facility location listed below:

GMC CPC GRAND RAPIDS METAL PLT
300 36TH ST SW
GRAND RAPIDS, MI 49548

Please be advised that the EPA Identification Number for the above facility is correctly stated on your form as MID006020408.

If you have any questions on the EPA ID, call 301 294-2811. If you have any questions on the interpretation of PCB Waste Handlers rules, call 202 382-3933.

Sincerely,

Tony Baney, Chief
Chemical Regulation Branch

Printed on Recycled Paper

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

No information on this form may be claimed as TSCA CBI.

Return To:

Chemical Regulation Branch
Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

TSCA PCB ID Number

I. Name of Facility: GM CPC Grand Rapids Metal Plant

Name of Owner of Facility: General Motors

II. EPA Identification Number (If already assigned under RCRA): MID 006020408

III. Facility Mailing Address (Street or PO Box, City, State, & ZIP Code):
CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

IV. Location of Facility (No. & Street, City, State, & ZIP Code):
CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

V. Installation Contact (Name and Title):
B. Parcell
Chief Powerhouse Engineer

Telephone Number (Area Code and Number):
(616) 246-2870

VI. Type of PCB Activity (Mark 'X' in appropriate box. See instructions.)

- [X] A. Generator with onsite storage facility
- [ ] B. Storer (Commercial)
- [ ] C. Transporter
- [ ] D. Permitted Disposer

VII. Certification

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

Paperwork Reduction Act Notice

The public reporting burden for this collection of information is estimated to average 1.5 hours per response. This estimate includes time for reviewing instructions, searching existing data sources, gathering and maintaining the needed data, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information to the Chief, Information Policy Branch (PM-223), US Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503, marked ATTENTION: Desk Officer for EPA.

EPA Form 7710-53(12-89)

RECEIVED 4-10-90

002642

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

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U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

For Official Use Only

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GM CPC Grand Rapids Metal Plant	General Motors	MID 006020408

III. Facility Mailing Address (Street or PO Box, City, State, & ZIP Code)

CPC Grand Rapids Metal Plant
300 - 36th Street S.W.
Grand Rapids, Mich. 49548

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B. Parcell
Chief Powerhouse Engineer

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- [ ] C. Transporter
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Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

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RECEIVED 4-10-90

002641

EPA

United States Environmental Protection Agency
Washington, DC 20460

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OMB No. 2070-0112
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Washington, DC 20460

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Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

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EPA Form 7710-53(12-89)

RECEIVED 4-10-90 002643

EPA

United States Environmental Protection Agency
Washington, DC 20460

Notification of PCB Activity

Form Approved
OMB No. 2070-0112
Approval expires 12-31-92

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Office of Toxic Substances TS-798
U.S. Environmental Protection Agency
401 M St., SW
Washington, DC 20460

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Name of Owner of Facility: General Motors

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Grand Rapids, Mich. 49548

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Chief Powerhouse Engineer

Telephone Number (Area Code and Number):
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- [ ] C. Transporter
- [ ] D. Permitted Disposer

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Signature	Name and Official Title (Type or print)	Date Signed
[signature]	Plant Manager	3/29/90

Paperwork Reduction Act Notice

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EPA Form 7710-53(12-89)

ATTACHMENT 1
Documentation of Certifier's Knowledge of the Truth and Accuracy of Information submitted in EPA's Form 7710-53.

TO BE COMPLETED BY ENVIRONMENTAL ENGINEER:

This is to confirm that I, Bob Parcell (Title, e.g., Env'tl Eng'nr),

provided Don Mayton (certifier of Form 7710-53) with the information necesary to complete Form 7710-53. The information I provided was based upon my first-hand knowledge of the matter which is the subject of the Form in question; I have obtained this knowledge as a result of my work experience.

TO BE COMPLETED BY PLANT MANAGER (OR OTHER CERTIFIER OF FORM 7710-53):

This document also confirms that I, Don Mayton (certifier of form),

spoke with Bob Parcell (individual with personal knowledge) regarding the subject matter of Form 7710-53 and that, based upon that discussion, I am comfortable that the information provided to me was true, accurate and complete.

Briefly specify manner of communications between manager and individual with personal knowledge (e.g., verbal communications during meeting of (date)):

(Certifier's signature)	(Signature of individual with personal knowledge)
Plant Manager	Chief Engineer
(Title)	(Title)
3/29/90	3/28/90
(Date)	(Date)

Appendix C
Waste Disposal Manifests

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	003

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOODWARD AVE., SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH ST SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398817
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
x Cordes Trucking Inc.		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 616-688-5777

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PBC Impacted Soil & Asphalt & concrete-Former Tar House WM Profile # 111803MI	1	DT	~50	TONS	
☒ PCB Impacted soil & asphalt					
☐ PCB Impacted Concrete					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location
color-various odor-no state-solid	Cell / Level / Grid
BILL TO: Terra Contracting Service LLC	

15. Special Handling Instructions and Additional Information

TR-410 T-69 $T-70 DSD 670115 LOAD 003

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	Matthew S. Abdallah on behalf of RACER TRUST	07	01	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
x Roger Jorissen	Roger Jorissen	07	01	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb Holst	B Holst	7	1	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10702177

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 492475

Customer Name TERRA111803MI TERRA CONTRACTI
Ticket Date 07/01/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398817
Destination
PO
Profile 111803MI (PCB IMPACTED SOIL & ASPHALT - FORMER TAR HOUSE)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# con410-69 Volume 40.0
Container
Driver
Check#
Billing # 0004364
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	07/01/2015 06:32:10	SCALE1	BARB		Gross	147220 lb*
Out	07/01/2015 06:32:10		BARB		Tare	52640 lb*
			* Manual Weight		Net	94580 lb
					Tons	47.29

Comments REPLACEMENT TICKET # 492182

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	47.29	Tons				MI-KENT
2	561T-SB 561 STATE	100	47.29	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	002

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOODWARD AVE., SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH ST SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398816
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Cordes Trucking		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone
9. Designated Facility Name and Site Address Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464	10. US EPA ID Number	G. State Facility ID H. State Facility Phone 616-688-5777

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PBC Impacted Soil & Asphalt & concrete-Former Tar House WM Profile # 111803MI					
☒ PCB Impacted soil & asphalt	1	DT	250	TONS	
☐ PCB Impacted Concrete					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
color-various odor-no state-solid BILL TO: Terra Contracting Service LLC	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

TR-39 T-45 & T-46 OSD 07/01/15 LOAD 002

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	Matthew S. Abdallah on behalf of RACER TRUST	07	01	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
x MICHAEL LONGCORE	x Michael Longcore	07	01	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Bob Holst	B Holst	7	1	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10701860

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 492155

Customer Name TERRA111803MI TERRA CONTRACTI
Ticket Date 07/01/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398816
Destination
PO
Profile 111803MI (PCB IMPACTED SOIL & ASPHALT - FORMER TAR HOUSE)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# CON39-45 Volume 40.0
Container
Driver
Check#
Billing # 0004364
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound
In	07/01/2015 10:43:06	SCALE1	BARB	
Out	07/01/2015 10:43:06		BARB	

Gross	181320 lb
Tare	52800 lb
Net	128520 lb
Tons	64.26

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	64.26	Tons				MI-KENT
2	561T-SB 561 STATE	100	64.26	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	001

GENERATOR

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOODWARD AVE., SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH ST SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398815
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
* Cordes		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PBC Impacted Soil & Asphalt & concrete-Former Tar House WM Profile # 111803MI	1	DT	250	TONS	
☒ PCB Impacted soil & asphalt					
☐ PCB Impacted Concrete					

J. Additional Descriptions for Materials Listed Above
color-various odor-no state-solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information

TR- T- ST- USED 07/01/15 LAND 0OZ

Purchase Order #

EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	on behalf of RACER TRUST	7	01	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year
Roger Jonsson		07	01	15
18. Transporter 2 Acknowledgement of Receipt of Materials				
Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Matthew Abdallah		7	1	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10701841

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 492135

Customer Name	TERRA111803MI TERRA CONTRACTI	Carrier	COR CORDES TRUCKING CO
Ticket Date	07/01/2015	Vehicle#	con410-69 Volume 40.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004364
State Waste Code		Gen EPA ID	
Manifest	3398815		
Destination		Grid	
PO			
Profile	111803MI (PCB IMPACTED SOIL & ASPHALT - FORMER TAR HOUSE)		
Generator	129-RACERTRUST300 RACER TRUST		

	Time	Scale	Operator	Inbound		
In	07/01/2015 09:38:18	SCALE1	BARB		Gross	169820 lb
Out	07/01/2015 09:38:18		BARB		Tare	52640 lb
					Net	117180 lb
					Tons	58.59

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	58.59	Tons				MI-KENT
2	561T-SB 561 STATE	100	58.59	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. MIK156633412 — Manifest Doc No.

2. Page 1 of 1 — 004

GENERATOR

3. Generator's Mailing Address:
RACER TRUST
500 WOODWARD AVE., SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH ST SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA 3398818

B. State Generator's ID

5. Transporter 1 Company Name: X Cordes Inc. 295-3

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PBC Impacted Soil & Asphalt & concrete-Former Tar House WM Profile # 111803MI	1	DT	250	TONS	
☐ PCB Impacted soil & asphalt					
☒ PCB Impacted Concrete					

J. Additional Descriptions for Materials Listed Above
color-various odor-no state-solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location
Cell — Level
Grid

15. Special Handling Instructions and Additional Information
TR-295 T-3 & T-4

Purchase Order # — EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdelk	on behalf of RACER TRUST	07	06	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X J.L. Wellman	J.L. Wellman	07	06	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Jill VanDam	Jill VanDam	7	6	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10702365

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 492657

Customer Name	TERRA111803MI TERRA CONTRACTI	Carrier	COR CORDES TRUCKING CO		
Ticket Date	07/06/2015	Vehicle#	CON295-3	Volume	40.0
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0004364		
State Waste Code		Gen EPA ID			
Manifest	3398818				
Destination		Grid			
PO					
Profile	111803MI (PCB IMPACTED SOIL & ASPHALT - FORMER TAR HOUSE)				
Generator	129-RACERTRUST300 RACER TRUST				

	Time	Scale	Operator	Inbound		
In	07/06/2015 09:23:13	SCALE1	jvandam		Gross	113680 lb
Out	07/06/2015 09:43:27	SCALE1	jvandam		Tare	61700 lb
					Net	51980 lb
					Tons	25.99

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	25.99	Tons				MI-KENT
2	561T-SB 561 STATE	100	25.99	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	1

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA 3398450

B. State Generator's ID

5. Transporter 1 Company Name: Cardinal #112 87288

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI [X] PCB Impacted soil & asphalt – Bulk unload area [ ] PCB Impacted concrete bulk unload area	1	DT	30	tons	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information
C.S.D - 7/28/15 Load 001B

Purchase Order #

EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Carl Bertenburg as Agent for RACER TRUST		7	28	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Jake Hoberg		7	28	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest

Printed Name	Signature	Month	Day	Year
Tim VanLaan	Tim VanLaan	7	28	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

9798114

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 495836

Customer Name TERRA111802MI TERRA CONTRACTI Carrier COR CORDES TRUCKING CO
Ticket Date 07/28/2015 Vehicle# CORD112-07 Volume 40.0
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0004365
State Waste Code Gen EPA ID
Manifest 3398450
Destination Grid
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

	Time	Scale	Operator	Inbound		
In	07/28/2015 11:31:01	SCALE1	jvandam		Gross	96180 lb
Out	07/28/2015 11:49:01	SCALE1	jvandam		Tare	53600 lb
					Net	42580 lb
					Tons	21.29

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	21.29	Tons				MI-KENT
2	561T-SB 561 STATE	100	21.29	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. Manifest Doc No.: M I K 1 5 6 6 3 3 4 1 2

2. Page 1 of 1 | 009

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA 3398448

B. State Generator's ID

5. Transporter 1 Company Name: X Terra Contracting, LLC

6. US EPA ID Number: X

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	Tons	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information

T+- 767 T-99 & T-100 OSD 06/26/15 LOAD 009

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
X Mathew S. Abdallah	on behalf of RACER Properties	06	26	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X JAMES BERGER	X	06	26	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb Holst	B Holst	06	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10713352

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491543

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398448
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra767-gt99 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 12:22:55	SCALE1	BARB		Gross	92200 lb
Out	06/26/2015 12:22:55		BARB		Tare	40420 lb
					Net	51780 lb
					Tons	25.89

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	25.89	Tons				MI-KENT
2	561T-SB 561 STATE	100	25.89	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

WASTE MANAGEMENT

10713353

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491544

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398448
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra767-gt100 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 12:24:50	SCALE1	BARB		Gross	71660 lb
Out	06/26/2015 12:24:50		BARB		Tare	19440 lb
					Net	52220 lb
					Tons	26.11

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.11	Tons				MI-KENT
2	561T-SB 561 STATE	100	26.11	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. MIK156633412 Manifest Doc No.	2. Page 1 of 1	008

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number WMNA 3398446

B. State Generator's ID

5. Transporter 1 Company Name X Cor DES / CONTRACTORS

6. US EPA ID Number #39-45-46

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	TONS	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level
Grid

15. Special Handling Instructions and Additional Information

TR-39 T-45 & T-46 OSD 06/26/15 LOAD-008

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	On behalf of RACER TRUST	06	26	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Michael Longcore	X Michael Longcore	06	26	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb Halsted	B Halsted	6	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10713330

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491522

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398446
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# CON39-45 Volume 40.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 11:18:12	SCALE1	BARB		Gross	170200 lb
Out	06/26/2015 11:18:12		BARB		Tare	52800 lb
					Net	117400 lb
					Tons	58.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	58.70	Tons				MI-KENT
2	561T-SB 561 STATE	100	58.70	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	007

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number WMNA 3398445

B. State Generator's ID

5. Transporter 1 Company Name XCandes Inc 294-127

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☑ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	Tons	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell		Level	
Grid			

15. Special Handling Instructions and Additional Information

TR-294T127A T-127B OSD 06/26/15 LOAD-007

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Mathew S. Abdallah	Mathew S. Abdallah on behalf of RACER TRUST	06	26	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
XMark Blackkamp	XMark Blackkamp	06	26	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb Holst	B Holst	6	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10713303

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491493

Customer Name	TERRA111802MI TERRA CONTRACTI	Carrier	COR CORDES TRUCKING CO	
Ticket Date	06/26/2015	Vehicle#	CON294-127AB	Volume 40.0
Payment Type	Credit Account	Container		
Manual Ticket#		Driver		
Hauling Ticket#		Check#		
Route		Billing #	0004365	
State Waste Code		Gen EPA ID		
Manifest	3398445			
Destination		Grid		
PO	302637			
Profile	111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)			
Generator	129-RACERTRUST300 RACER TRUST			

	Time	Scale	Operator	Inbound		
In	06/26/2015 09:46:11	SCALE1	BARB		Gross	153560 lb
Out	06/26/2015 09:46:11		BARB		Tare	51780 lb
					Net	101780 lb
					Tons	50.89

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	50.89	Tons				MI-KENT
2	561T-SB 561 STATE	100	50.89	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of	
	M I K 1 5 6 6 3 3 4 1 2	1	006

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOOLWARD AVE, SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398444
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
X Cobbs Contractors	X 39-45-46	D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☑ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	TONS	

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color-various Odor-no State- Solid	Cell		Level	
BILL TO: Terra Contracting Service LLC	Grid			

15. Special Handling Instructions and Additional Information

TR- 39 T-C45 T=C46 OSD 06/26/15 LOAD 006

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Mathew S. Abdallah	on behalf of RACER TRUST	06	26	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
MICHAEL LONGCORE		06	26	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Dave Holst		06	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

10713291

WASTE MANAGEMENT

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491483

Customer Name	TERRA111802MI TERRA CONTRACTI	Carrier	COR CORDES TRUCKING CO		
Ticket Date	06/26/2015	Vehicle#	CON39-45	Volume	40.0
Payment Type	Credit Account	Container			
Manual Ticket#		Driver			
Hauling Ticket#		Check#			
Route		Billing #	0004365		
State Waste Code		Gen EPA ID			
Manifest	3398444				
Destination		Grid			
PO	302637				
Profile	111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)				
Generator	129-RACERTRUST300 RACER TRUST				

	Time	Scale	Operator	Inbound		
In	06/26/2015 09:06:39	SCALE1	BARB		Gross	158220 lb
Out	06/26/2015 09:06:39		BARB		Tare	52800 lb
					Net	105420 lb
					Tons	52.71

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	52.71	Tons				MI-KENT
2	561T-SB 561 STATE	100	52.71	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. Manifest Doc No.
M I K 1 5 6 6 3 3 4 1 2

2. Page 1 of 1 004

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number WMNA 3398442

B. State Generator's ID

5. Transporter 1 Company Name
X TERRA CONTRACTING 767

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	Tons	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level
Grid

15. Special Handling Instructions and Additional Information
TR- 767T - GT99% GT100 OSD 6/25/15 LOAD 004

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallol	on behalf of RACER TRUST	06	25	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X JAMES BELGER	X	06	25	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Cindy Engelman	Cindy Engelman	06	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

WASTE MANAGEMENT

10713289

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491481

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398442
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra767-gt100 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID

Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 09:01:44	SCALE1	CINDY		Gross	52000 lb
Out	06/26/2015 09:01:44		CINDY		Tare	19440 lb
					Net	32560 lb
					Tons	16.28

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	16.28	Tons				MI-KENT
2	561T-SB 561 STATE	100	16.28	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

WASTE MANAGEMENT

10713288

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491480

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398442
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra767-gt99 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID

Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 09:01:06	SCALE1	CINDY		Gross	82260 lb
Out	06/26/2015 09:01:06		CINDY		Tare	40420 lb
					Net	41840 lb
					Tons	20.92

Comments

Product		LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	20.92	Tons				MI-KENT
2	561T-SB 561 STATE	100	20.92	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. Manifest Doc No.	2. Page 1 of	
	M I K 1 5 6 6 3 3 4 1 2	1	005

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOOLWARD AVE, SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398443
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Cordes Inc.		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☑ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	TONS	

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color-various Odor-no State- Solid				
BILL TO: Terra Contracting Service LLC	Cell		Level	
	Grid			

15. Special Handling Instructions and Additional Information

TR-294 T-127A & 127 OSD 06/26/15 LOAD 005

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Mathew S. Abdallah	On behalf of RACER TRUST	06	26	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X Mark Blackamp	Mark Blackamp	06	26	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Cindy Englesman	Cindy Englesman	06	26	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

10713261

WASTE MANAGEMENT

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491451

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/26/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398443
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# CON294-127AB Volume 40.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/26/2015 07:05:46	SCALE1	CINDY		Gross	121780 lb
Out	06/26/2015 07:05:46		CINDY		Tare	51780 lb
					Net	70000 lb
					Tons	35.00

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	35.00	Tons				MI-KENT
2	561T-SB 561 STATE	100	35.00	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of	
	M I K 1 5 6 6 3 3 4 1 2	1	003

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOOLWARD AVE, SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398441
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
XTERRA		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	TONS	

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color-various Odor-no State- Solid	Cell		Level	
BILL TO: Terra Contracting Service LLC	Grid			

15. Special Handling Instructions and Additional Information

TR- 849 T GT 157 & GT 110 OSD 06/25/15 LOAD 003

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	Of RACER TRUST Matthew S. Abdallah on behalf	06	25	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X KEITH Jordan	X Keith Jordan	06	25	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Jill VanDam	JVV	06	25	14

White- TREATMENT/STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10713231

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491410

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/25/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398441
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# TERRA849-157 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/25/2015 14:57:29	SCALE1	jvandam		Gross	73400 lb
Out	06/25/2015 15:33:04	SCALE1	jvandam		Tare	43740 lb
					Net	29660 lb
					Tons	14.83

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	14.83	Tons				MI-KENT
2	561T-SB 561 STATE	100	14.83	Tons				MI-KENT

Keith Jordan

Total Tax
Total Ticket

403WM-N
Driver`s Signature

WASTE MANAGEMENT

10713232

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491411

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/25/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398441
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra849-110 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID

Grid

	Time	Scale	Operator	Inbound		
In	06/25/2015 14:58:40	SCALE1	jvandam		Gross	39760 lb
Out	06/25/2015 15:33:41	SCALE1	jvandam		Tare	18760 lb
					Net	21000 lb
					Tons	10.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	10.50	Tons				MI-KENT
2	561T-SB 561 STATE	100	10.50	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST

1. Generator's US EPA ID No. MIK156633412 — Manifest Doc No.

2. Page 1 of 1 — 002

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA 3398489

B. State Generator's ID

5. Transporter 1 Company Name: Condes Inc. 294-127

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~50	TONS	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location

Cell | Level

Grid

15. Special Handling Instructions and Additional Information

TR-294T-127A & 127B OSD 06-25-15 LOAD 002

Purchase Order # — EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallal	on behalf for RACER TRUST	06	25	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Mark. Blackamp	Mark Blackamp	06	25	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Jim VanDam	JVV	06	25	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY
Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY
Yellow- GENERATOR #1 COPY

WASTE MANAGEMENT

10713214

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491401

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/25/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398489
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# CON294-127AB Volume 40.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/25/2015 14:35:13	SCALE1	jvandam		Gross	98740 lb
Out	06/25/2015 14:49:00	SCALE1	jvandam		Tare	51780 lb
					Net	46960 lb
					Tons	23.48

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	23.48	Tons				MI-KENT
2	561T-SB 561 STATE	100	23.48	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

Fence

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of	
	M I K 1 5 6 6 3 3 4 1 2	1	001

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOOLWARD AVE, SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398440
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
TERRA CONTRACTING LLC		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
747-9+99 8100		F. Transporter's Phone
9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI	1	DT	~50	TONS	
☒ PCB Impacted soil & asphalt – Bulk unload area					
☐ PCB Impacted concrete bulk unload area					

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color-various Odor-no State- Solid	Cell		Level	
BILL TO: Terra Contracting Service LLC	Grid			

15. Special Handling Instructions and Additional Information

Tr - 767T - 99 # GT100 OSD 06/25/15 LOAD 001 (RT, GT)

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Matthew S. Abdallah	Matthew S. Abdallah on behalf of for RACER TRUST	06	25	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
X JAMES BELGER		6	25	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
William Dam		6	25	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10713213

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491396

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 06/25/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398440
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra767-gt100 Volume 20.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator	Inbound		
In	06/25/2015 14:22:00	SCALE1	jvandam		Gross	35080 lb
Out	06/25/2015 14:45:53	SCALE1	jvandam		Tare	19440 lb
					Net	15640 lb
					Tons	7.82

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	7.82	Tons				MI-KENT
2	561T-SB 561 STATE	100	7.82	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver's Signature

WASTE MANAGEMENT

10713212

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 491395

Customer Name	TERRA111802MI TERRA CONTRACTI	Carrier	TERR TERRA CONTRACTING
Ticket Date	06/25/2015	Vehicle#	terra767-gt99 Volume 20.0
Payment Type	Credit Account	Container	
Manual Ticket#		Driver	
Hauling Ticket#		Check#	
Route		Billing #	0004365
State Waste Code		Gen EPA ID	
Manifest	3398440		
Destination		Grid	
PO	302637		
Profile	111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)		
Generator	129-RACERTRUST300 RACER TRUST		

	Time	Scale	Operator	Inbound		
In	06/25/2015 14:20:14	SCALE1	jvandam		Gross	61420 lb
Out	06/25/2015 14:45:34	SCALE1	jvandam		Tare	40420 lb
					Net	21000 lb
					Tons	10.50

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	10.50	Tons				MI-KENT
2	561T-SB 561 STATE	100	10.50	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. M I K 1 5 6 6 3 3 4 1 2 Manifest Doc No.	2. Page 1 of 1	13

3. Generator's Mailing Address:
RACER TRUST
500 WOOLWARD AVE, SUITE 1510
DETROIT MI 48226

4. Generator's Phone 217-741-6235

Generator's Site Address (If different than mailing):
RACER TRUST
300 36TH STREET SW
GRAND RAPIDS, MI 49548
KENT COUNTY

A. Manifest Number: WMNA 3398454

B. State Generator's ID

5. Transporter 1 Company Name Cardes 295-5

6. US EPA ID Number

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Autumn Hills Landfill
700 56th Ave
Zeeland, MI 49464

10. US EPA ID Number

G. State Facility ID

H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~5	tons	

J. Additional Descriptions for Materials Listed Above
Color-various Odor-no State- Solid

BILL TO: Terra Contracting Service LLC

K. Disposal Location
Cell | Level
Grid

15. Special Handling Instructions and Additional Information
O.S.D. – 8/4/15 Load: DR01 T# 295 TR-5 #6

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:
I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Easterday as Agent for RACER TRUST		8	4	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Al Kooiker		8	4	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal
I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Cindy Engelsman	C. Engelsman	08	04	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Blue- GENERATOR #2 COPY
Yellow- GENERATOR #1 COPY
Pink- FACILITY USE ONLY
Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10707699

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 496810

Customer Name TERRA111802MI TERRA CONTRACTI
Ticket Date 08/04/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398454
Destination
PO 302637
Profile 111802MI (PCB IMPATEC SOIL & ASPHALT - BUL UNLOAD AREA)
Generator 129-RACERTRUST300 RACER TRUST

Carrier COR CORDES TRUCKING CO
Vehicle# CON295-5 Volume 40.0
Container
Driver
Check#
Billing # 0004365
Gen EPA ID
Grid

	Time	Scale	Operator
In	08/04/2015 09:00:04	SCALE1	CINDY
Out	08/04/2015 09:24:29	SCALE1	BARB

Inbound

Gross	74260 lb
Tare	61320 lb
Net	12940 lb
Tons	6.47

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	6.47	Tons				MI-KENT
2	561T-SB 561 STATE	100	6.47	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N

Driver's Signature

NON-HAZARDOUS MANIFEST

WASTE MANAGEMENT

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No. / Manifest Doc No.	2. Page 1 of	
	M I K 1 5 6 6 3 3 4 1 2	1	078

3. Generator's Mailing Address:	Generator's Site Address (If different than mailing):	A. Manifest Number	
RACER TRUST 500 WOOLWARD AVE, SUITE 1510 DETROIT MI 48226	RACER TRUST 300 36TH STREET SW GRAND RAPIDS, MI 49548 KENT COUNTY	WMNA	3398449
4. Generator's Phone 217-741-6235		B. State Generator's ID	

5. Transporter 1 Company Name	6. US EPA ID Number	C. State Transporter's ID
Terra 1155-1001		D. Transporter's Phone
7. Transporter 2 Company Name	8. US EPA ID Number	E. State Transporter's ID
		F. Transporter's Phone

9. Designated Facility Name and Site Address	10. US EPA ID Number	G. State Facility ID
Autumn Hills Landfill 700 56th Ave Zeeland, MI 49464		H. State Facility Phone 616-688-5777

GENERATOR

11. Description of Waste Materials	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments
a. PCB Impacted Soil & Ashphalt-Bulk Unload Area WM Profile #111802MI ☒ PCB Impacted soil & asphalt – Bulk unload area ☐ PCB Impacted concrete bulk unload area	1	DT	~28	tons	

J. Additional Descriptions for Materials Listed Above	K. Disposal Location			
Color-various Odor-no State- Solid	Cell		Level	
BILL TO: Terra Contracting Service LLC	Grid			

15. Special Handling Instructions and Additional Information

Load – 001A Q.S.D. – 7/22/15

Purchase Order # EMERGENCY CONTACT / PHONE NO.: Kerry Puzio/269-375-9595

16. GENERATOR'S CERTIFICATE:

I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.

Printed Name	Signature "On behalf of"	Month	Day	Year
Earl Biterbuy as Agent for	RACER TRUST	7	22	15

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year
Craig Wilton		7	22	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed Name	Signature	Month	Day	Year

FACILITY

19. Certificate of Final Treatment/Disposal

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.

20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.

Printed Name	Signature	Month	Day	Year
Barb Holst	B Holst	7	22	15

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY Blue- GENERATOR #2 COPY Yellow- GENERATOR #1 COPY

Pink- FACILITY USE ONLY Gold- TRANSPORTER #1 COPY

WASTE MANAGEMENT

10706976

Autumn Hills Landfill
700 56th Avenue
Zeeland, MI, 49464
Ph: (616)688-5777

Original
Ticket# 495089

Customer Name TERRA116360MI TERRA CONTRACTI
Ticket Date 07/22/2015
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code
Manifest 3398449
Destination
PO
Profile 116360MI (SOIL-BULK UNLOAD & ZC AREAS)
Generator 129-RACERTRUST300 RACER TRUST

Carrier TERR TERRA CONTRACTING
Vehicle# terra1155-gt1001 Volume 20.0
Container
Driver
Check#
Billing # 0004363
Gen EPA ID

Grid

	Time	Scale	Operator	Inbound		
In	07/22/2015 13:50:26	SCALE1	BARB		Gross	96460 lb
Out	07/22/2015 13:50:26		BARB		Tare	43060 lb
					Net	53400 lb
					Tons	26.70

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Spwaste Solid Oth-	100	26.70	Tons				MI-KENT
2	561T-SB 561 STATE	100	26.70	Tons				MI-KENT

Total Tax
Total Ticket

403WM-N
Driver`s Signature

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
MIK 156 633 412	1	(800) 424-9300	014866630 JJK

GENERATOR

5. Generator's Name and Mailing Address
RACER TRUST
500 WOODWARD AVE
SUITE 1510
DETROIT, MI 48226
Generator's Phone: (217) 741-6235

Generator's Site Address (if different than mailing address)
300 36TH STREET SW
GRAND RAPIDS, MI 49548-2107

6. Transporter 1 Company Name
EQ INDUSTRIAL SERVICES
U.S. EPA ID Number
MIK 435 642 742

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
WAYNE DISPOSAL, INC. SITE #2 LANDFILL
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number
MID 048 090 633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG #171	01	DT	41,730	K	PCB1
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. G152074WDI / TSCA PCB impacted soil and debris
O.S.D. - 7/28/15
Container ID = 01

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Earl Babcock as Agent for RACER TRUST
Signature:
Month: 07 Day: 28 Year: 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Don Adams
Signature: Don Adams
Month: 07 Day: 28 Year: 15

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 37,310 lbs per loader ticket w/ GW 33 7/30/15
Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
PCB			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Tom Bruce
Signature:
Month: 7 Day: 28 Year: 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB SOLID

and specified on Manifest # 014826630 WK, Line Item 1 has been landfilled on

July 30, 2015 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Brooke Bostwick

758562

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	MIK156633412	1	(877) 818-0087	000959435 VES

GENERATOR

5. Generator's Name and Mailing Address

500 Woodward Ave Detroit MI 48226
~~2930 ECORSE RD. Suite 2650 YPSILANTI, MI 48198~~
RACER TRUST
Generator's Phone: 217 741-6235

Generator's Site Address (if different than mailing address)
RACER TRUST
300 36TH ST SW
WYOMING, MI 49548

6. Transporter 1 Company Name: VEOLIA ES TECHNICAL SOLUTIONS — U.S. EPA ID Number: NJD080631369

7. Transporter 2 Company Name: ACTION RESOURCES — U.S. EPA ID Number: AUR000007237

8. Designated Facility Name and Site Address
VEOLIA ES TECHNICAL SOLUTIONS
HIGHWAY 73
3.5 MILES W. OF TAYLOR'S BAYOU
PORT ARTHUR, TX 77640
Facility's Phone: 409 736-2821
U.S. EPA ID Number: TXD000838896

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10 Containers No.	10 Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, 9, III	1	DM	234	K	026L	OUTS1011	
X	2. UN2315, POLYCHLORINATED BIPHENYLS, LIQUID, 9, III	1	DM	134	K	026L	OUTS1011	
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ADDENDUM ATTACHED FOR ADDITIONAL TSCA INFORMATION - ER Service Contracted by VESTS -|- OU36200 Livonia, MI -|- 1) ERG:171 W:817023 A:PTAVES070 ; ID: LF2414400000001010; OOSD: 9-29-15 2) ERG: 171 W:817023 A:PTAVES070 ; ID: LF2414400000002010, OOSD: 9-29-15

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Ford Batenburg As Agent for RACER TRUST — Signature — Month 09 Day 29 Year 15

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: David H. Schepps — Signature — Month 09 Day 29 Year 15

Transporter 2 Printed/Typed Name: Charles Hulsey — Signature — Month 10 Day 9 Year 15

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H040	H040		

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Bernd Jones — Signature: Bernd Jones — Month 10 Day 15 Year 15

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Appendix D
Wipe Sample and Decontamination Water Sample Analytical Laboratory Reports

Analytical Laboratory Report

Report ID: S67427.01(01)
Generated on 08/18/2015

Report to

Attention: Kerry Puzio
Terra Contracting Services, LLC
6760 Metroplex Drive
Romulus, Michigan 48174

Phone: 269-375-9595 FAX:
Email: kpuzio@terracontracting.net

Addtional Contacts: Doug Ervin

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

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Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S67427.01
Project: 150340
Collected Date: 08/10/2015
Submitted Date/Time: 08/10/2015 13:45
Sampled by: Greg Poches
P.O. #: 302913

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Maya Murshak
Technical Director

Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
ASTMD3278 - 96	ASTM Method D3278 - 96(2011)
E200.8	EPA Method 200.8 Revision 5.4
E245.1	EPA Method 245.1 Revision 3.0
N/A	Not Applicable
SM4500-H+ B	Standard Method 4500 H + B 20th Edition
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1996
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8260C	SW 846 Method 8260C Revision 3 August 2006

Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S67427.01	Rolloff Water	Wastewater	08/10/15 10:10

Analytical Laboratory Report

Lab Sample ID: S67427.01
Sample Tag: Rolloff Water
Collected Date/Time: 08/10/2015 10:10
Matrix: Wastewater
COC Reference: 91827

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	32oz Glass	None	Yes	10.2	IR
2	40ml Glass	HCL	Yes	10.2	IR
1	125ml Plastic	HNO3	Yes	10.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3510C	08/11/15 16:53	JPC		
Mercury Digestion	Completed			E245.1	08/12/15 12:00	RGS		
Metal Digestion	Completed			SW3015A	08/17/15 14:45	CCM		
pH check for VOCs	<2	STD Units		N/A	08/17/15 18:48	JGH		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	08/11/15 20:08	PL		
pH	7.67	STD Units	0.01	SM4500-H+ B	08/11/15 09:15	ASB		
Metals								
Arsenic	0.008	mg/L	0.002	E200.8	08/17/15 17:27	PER	7440-38-2	
Barium	0.661	mg/L	0.005	E200.8	08/17/15 17:27	PER	7440-39-3	
Cadmium	0.0182	mg/L	0.00005	E200.8	08/17/15 17:27	PER	7440-43-9	
Chromium	0.035	mg/L	0.005	E200.8	08/17/15 17:27	PER	7440-47-3	
Lead	0.219	mg/L	0.003	E200.8	08/17/15 17:27	PER	7439-92-1	
Mercury	0.0009	mg/L	0.0002	E245.1	08/12/15 16:47	CCM	7439-97-6	
Selenium	Not detected	mg/L	0.005	E200.8	08/17/15 17:27	PER	7782-49-2	
Silver	Not detected	mg/L	0.0005	E200.8	08/17/15 17:27	PER	7440-22-4	
Organics - PCBs/Pesticides								
PCB								
PCB-1016	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	12674-11-2	L
PCB-1221	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	11104-28-2	L
PCB-1232	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	11141-16-5	L
PCB-1248	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	12672-29-6	L
PCB-1254	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	11097-69-1	L
PCB-1260	0.6	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	11096-82-5	L
PCB-1242	Not detected	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	53469-21-9	L
PCB, Total	0.6	ug/L	0.2	SW8082A	08/11/15 15:58	ADB	1336-36-3	L
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260C	08/17/15 17:31	JGH	60-29-7	
Acetone	Not detected	ug/L	50	SW8260C	08/17/15 17:31	JGH	67-64-1	
Methyl iodide	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	74-88-4	
Carbon disulfide	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	SW8260C	08/17/15 17:31	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260C	08/17/15 17:31	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	75-71-8	

L-Elevated reporting limit due to low sample amount

Lab Sample ID: S67427.01 (continued)
Sample Tag: Rolloff Water

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chloromethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	74-87-3	
Vinyl chloride	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-01-4	
Bromomethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	74-83-9	
Chloroethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-35-4	
Methylene chloride	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	SW8260C	08/17/15 17:31	JGH	109-99-9	
Chloroform	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	67-66-3	
Bromochloromethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260C	08/17/15 17:31	JGH	108-10-1	
2-Hexanone	Not detected	ug/L	50	SW8260C	08/17/15 17:31	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	56-23-5	
Benzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	107-06-2	
Trichloroethene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-27-4	
Dibromomethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	10061-01-5	
Toluene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	106-93-4	
Chlorobenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	630-20-6	
Ethylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	100-41-4	
p,m-Xylene	Not detected	ug/L	2	SW8260C	08/17/15 17:31	JGH		
o-Xylene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	95-47-6	
Styrene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	98-82-8	
Bromoform	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	103-65-1	
Bromobenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	541-73-1	

Lab Sample ID: S67427.01 (continued)
Sample Tag: Rolloff Water

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	SW8260C	08/17/15 17:31	JGH	104-51-8	
Hexachloroethane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	87-61-6	
Naphthalene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260C	08/17/15 17:31	JGH	91-57-6	

Merit Laboratories, Inc.

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Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

91827

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: KERRY PUZIO
COMPANY: TERRA
ADDRESS:
CITY: KALAMAZOO STATE: MI ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.: 302913
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 150340
SAMPLER(S) - PLEASE PRINT/SIGN NAME: GREG POCHES

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER 5-DAY

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other AES

Special Instructions

MERIT LAB NO. FOR LAB USE ONLY	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB	TOTAL RCRA METALS	PH, FLASH	VOC	Special Instructions
67427.01	8/10/15	10:10	ROLLOFF WATER	WW	5	2	2	1					X	X	X	X	
																	ILE

RELINQUISHED BY: SIGNATURE/ORGANIZATION	Greg Poches ☒ Sampler	DATE 8/10/15	TIME 10:10	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8/10/15	TIME 5:10	
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE 8/10/15	TIME 1:45 PM	
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE 8.10.15	TIME 13:45	

RELINQUISHED BY: SIGNATURE/ORGANIZATION — DATE — TIME
RECEIVED BY: SIGNATURE/ORGANIZATION — DATE — TIME

SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS
SEAL NO. — SEAL INTACT YES ☐ NO ☐ — INITIALS

NOTES: TEMP. ON ARRIVAL 10.2

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S67426.01(01)
Generated on 08/12/2015

Report to

Attention: Kerry Puzio
Terra Contracting Services, LLC
6760 Metroplex Drive
Romulus, Michigan 48174

Phone: 269-375-9595 FAX:
Email: kpuzio@terracontracting.net

Addtional Contacts: Doug Ervin

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S67426.01
Project: 150340
Collected Date: 08/10/2015
Submitted Date/Time: 08/10/2015 13:45
Sampled by: Doug Ervin
P.O. #: 302861

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Sample Summary (Page 5)

Maya Murshak
Technical Director

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Method Summary

Method	Version
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S67426.01	Rolloff Liner	Wipe	08/10/15 10:10

Analytical Laboratory Report

Lab Sample ID: S67426.01
Sample Tag: Rolloff Liner
Collected Date/Time: 08/10/2015 10:10
Matrix: Wipe
COC Reference: 91828

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	Hexane	Yes	14.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	08/12/15 10:13	JPC		
Organics - PCBs/Pesticides								
PCB Swab List								
PCB-1016	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	12674-11-2	
PCB-1221	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	11104-28-2	
PCB-1232	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	11141-16-5	
PCB-1242	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	53469-21-9	
PCB-1248	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	12672-29-6	
PCB-1254	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	11097-69-1	
PCB-1260	Not detected	ug/100cm2	1	SW8082A	08/12/15 11:58	JAN	11096-82-5	

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www.meritlabs.com

C.O.C. PAGE # 1 OF 1

91828

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: KERRY PUZIO
COMPANY: TERRA
ADDRESS:
CITY: KALAMAZOO STATE: MI ZIP CODE:
PHONE NO.: FAX NO.: P.O. NO.: 302861
E-MAIL ADDRESS: QUOTE NO.:

INVOICE TO

CONTACT NAME: ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 150340
SAMPLER(S) - PLEASE PRINT/SIGN NAME: DOUG ERVIN

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☒ 3 DAYS ☐ STANDARD ☐ OTHER RUSH

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☒ Other AES

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	PCB										Special Instructions
67426.01	8/10/15	10:10	ROLLOFF LINER	WP	1								X										
																							3-DAY RUSH
																							ICC

RELINQUISHED BY: SIGNATURE/ORGANIZATION	☒ Sampler	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME

SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 14.7

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Appendix E
Verification Sample Analytical Laboratory Reports

01-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (017360-T03Y15-02Y15))** Work Order: **15061648**

Dear Rawa,

ALS Environmental received 24 samples on 26-Jun-2015 04:05 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 37.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Group USA, Corp

Date: 01-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Work Order: **15061648**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15061648-01	SO-017360-062615-EB-001	Soil		6/26/2015 09:00	6/26/2015 16:05	☐
15061648-02	SO-017360-062615-EB-002	Soil		6/26/2015 09:15	6/26/2015 16:05	☐
15061648-03	SO-017360-062615-EB-003	Soil		6/26/2015 09:25	6/26/2015 16:05	☐
15061648-04	SO-017360-062615-EB-004	Soil		6/26/2015 09:40	6/26/2015 16:05	☐
15061648-05	SO-017360-062615-EB-005	Soil		6/26/2015 09:50	6/26/2015 16:05	☐
15061648-06	SO-017360-062615-EB-006	Soil		6/26/2015 09:55	6/26/2015 16:05	☐
15061648-07	SO-017360-062615-EB-007	Soil		6/26/2015 10:00	6/26/2015 16:05	☐
15061648-08	SO-017360-062615-EB-008	Soil		6/26/2015 12:40	6/26/2015 16:05	☐
15061648-09	SO-017360-062615-EB-009	Soil		6/26/2015 12:50	6/26/2015 16:05	☐
15061648-10	SO-017360-062615-EB-010	Soil		6/26/2015 12:05	6/26/2015 16:05	☐
15061648-11	SO-017360-062615-EB-011	Soil		6/26/2015 12:25	6/26/2015 16:05	☐
15061648-12	SO-017360-062615-EB-012	Soil		6/26/2015 13:40	6/26/2015 16:05	☐
15061648-13	SO-017360-062615-EB-013	Soil		6/26/2015 14:05	6/26/2015 16:05	☐
15061648-14	SO-017360-062615-EB-014	Soil		6/26/2015 14:10	6/26/2015 16:05	☐
15061648-15	SO-017360-062615-EB-015	Soil		6/26/2015 14:15	6/26/2015 16:05	☐
15061648-16	SO-017360-062615-EB-016	Soil		6/26/2015 14:20	6/26/2015 16:05	☐
15061648-17	SO-017360-062615-EB-017	Soil		6/26/2015 14:25	6/26/2015 16:05	☐
15061648-18	SO-017360-062615-EB-018	Soil		6/26/2015 14:30	6/26/2015 16:05	☐
15061648-19	SO-017360-062615-EB-019	Soil		6/26/2015 14:35	6/26/2015 16:05	☐
15061648-20	SO-017360-062615-EB-020	Soil		6/26/2015 14:40	6/26/2015 16:05	☐
15061648-21	SO-017360-062615-EB-021	Soil		6/26/2015 14:45	6/26/2015 16:05	☐
15061648-22	SO-017360-062615-EB-022	Soil		6/26/2015 14:50	6/26/2015 16:05	☐
15061648-23	SO-017360-062615-EB-023	Soil		6/26/2015 14:55	6/26/2015 16:05	☐
15061648-24	SO-017360-062615-EB-024	Soil		6/26/2015 15:00	6/26/2015 16:05	☐

ALS Group USA, Corp

Date: 01-Jul-15

Client:	GHD Services Inc.
Project:	Former GRMP (017360-T03Y15-02Y15))
Work Order:	15061648

Case Narrative

Batch 72868, Method PCB_8082_S, Sample 15061648-22A MSD: The MSD recovery and the RPD between the MS and MSD were outside of control limits for Aroclor 1260. The results in the corresponding sample should be considered estimated.

ALS Group USA, Corp

Date: 01-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
WorkOrder: **15061648**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-001
Collection Date: 6/26/2015 09:00 AM

Work Order: 15061648
Lab ID: 15061648-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1221	U		10	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1232	U		10	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1242	U		10	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1248	U		10	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1254	U		13	88	µg/Kg-dry	1	6/30/2015 16:24
Aroclor 1260	**33**	J	**13**	**88**	**µg/Kg-dry**	1	6/30/2015 16:24
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	6/30/2015 16:24
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**7.3**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-002
Collection Date: 6/26/2015 09:15 AM

Work Order: 15061648
Lab ID: 15061648-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	87	µg/Kg-dry	1	6/30/2015 16:40
Aroclor 1221	U		10	87	µg/Kg-dry	1	6/30/2015 16:40
Aroclor 1232	U		10	87	µg/Kg-dry	1	6/30/2015 16:40
Aroclor 1242	U		10	87	µg/Kg-dry	1	6/30/2015 16:40
Aroclor 1248	U		10	87	µg/Kg-dry	1	6/30/2015 16:40
Aroclor 1254	**180**		**13**	**87**	**µg/Kg-dry**	1	6/30/2015 16:40
Aroclor 1260	**100**		**13**	**87**	**µg/Kg-dry**	1	6/30/2015 16:40
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	6/30/2015 16:40
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**8.4**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-003
Collection Date: 6/26/2015 09:25 AM

Work Order: 15061648
Lab ID: 15061648-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	91	µg/Kg-dry	1	6/30/2015 17:29
Aroclor 1221	U		11	91	µg/Kg-dry	1	6/30/2015 17:29
Aroclor 1232	U		11	91	µg/Kg-dry	1	6/30/2015 17:29
Aroclor 1242	U		11	91	µg/Kg-dry	1	6/30/2015 17:29
Aroclor 1248	U		11	91	µg/Kg-dry	1	6/30/2015 17:29
Aroclor 1254	**64**	J	**14**	**91**	**µg/Kg-dry**	1	6/30/2015 17:29
Aroclor 1260	**38**	J	**14**	**91**	**µg/Kg-dry**	1	6/30/2015 17:29
Surr: Decachlorobiphenyl	*83.1*			*40-140*	*%REC*	1	6/30/2015 17:29
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**9.2**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-004
Collection Date: 6/26/2015 09:40 AM

Work Order: 15061648
Lab ID: 15061648-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	89	µg/Kg-dry	1	6/30/2015 17:46
Aroclor 1221	U		10	89	µg/Kg-dry	1	6/30/2015 17:46
Aroclor 1232	U		10	89	µg/Kg-dry	1	6/30/2015 17:46
Aroclor 1242	U		10	89	µg/Kg-dry	1	6/30/2015 17:46
Aroclor 1248	U		10	89	µg/Kg-dry	1	6/30/2015 17:46
Aroclor 1254	U		13	89	µg/Kg-dry	1	6/30/2015 17:46
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	6/30/2015 17:46
BatchID: 72867							
Aroclor 1260	**69,000**		**260**	**1,800**	**µg/Kg-dry**	20	7/1/2015 11:04
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**9.9**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-005
Collection Date: 6/26/2015 09:50 AM

Work Order: 15061648
Lab ID: 15061648-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1221	U		11	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1232	U		11	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1242	U		11	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1248	U		11	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1254	U		14	92	µg/Kg-dry	1	6/30/2015 18:02
Aroclor 1260	**1,600**		**14**	**92**	**µg/Kg-dry**	1	6/30/2015 18:02
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	6/30/2015 18:02
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**10**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-006
Collection Date: 6/26/2015 09:55 AM

Work Order: 15061648
Lab ID: 15061648-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	87	µg/Kg-dry	1	6/30/2015 18:19
Aroclor 1221	U		10	87	µg/Kg-dry	1	6/30/2015 18:19
Aroclor 1232	U		10	87	µg/Kg-dry	1	6/30/2015 18:19
Aroclor 1242	U		10	87	µg/Kg-dry	1	6/30/2015 18:19
Aroclor 1248	U		10	87	µg/Kg-dry	1	6/30/2015 18:19
Aroclor 1254	U		13	87	µg/Kg-dry	1	6/30/2015 18:19
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	6/30/2015 18:19
BatchID: 72867							
Aroclor 1260	**15,000**		**130**	**870**	**µg/Kg-dry**	10	7/1/2015 11:20
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**9.6**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-007
Collection Date: 6/26/2015 10:00 AM

Work Order: 15061648
Lab ID: 15061648-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	89	µg/Kg-dry	1	6/30/2015 18:35
Aroclor 1221	U		10	89	µg/Kg-dry	1	6/30/2015 18:35
Aroclor 1232	U		10	89	µg/Kg-dry	1	6/30/2015 18:35
Aroclor 1242	U		10	89	µg/Kg-dry	1	6/30/2015 18:35
Aroclor 1248	U		10	89	µg/Kg-dry	1	6/30/2015 18:35
Aroclor 1254	U		13	89	µg/Kg-dry	1	6/30/2015 18:35
Surr: Decachlorobiphenyl	*79.1*			*40-140*	*%REC*	1	6/30/2015 18:35
BatchID: 72867							
Aroclor 1260	**3,400**		**26**	**180**	**µg/Kg-dry**	2	7/1/2015 11:37
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**9.2**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-008
Collection Date: 6/26/2015 12:40 PM

Work Order: 15061648
Lab ID: 15061648-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		13	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1221	U		13	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1232	U		13	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1242	U		13	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1248	U		13	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1254	U		16	110	µg/Kg-dry	1	6/30/2015 18:51
Aroclor 1260	**2,000**		**16**	**110**	**µg/Kg-dry**	1	6/30/2015 18:51
Surr: Decachlorobiphenyl	*73.1*			*40-140*	*%REC*	1	6/30/2015 18:51
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**26**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-009
Collection Date: 6/26/2015 12:50 PM

Work Order: 15061648
Lab ID: 15061648-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1221	U		11	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1232	U		11	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1242	U		11	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1248	U		11	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1254	U		13	90	µg/Kg-dry	1	6/30/2015 19:40
Aroclor 1260	**2,000**		**13**	**90**	**µg/Kg-dry**	1	6/30/2015 19:40
Surr: Decachlorobiphenyl	*75.1*			*40-140*	*%REC*	1	6/30/2015 19:40
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**12**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-010
Collection Date: 6/26/2015 12:05 PM

Work Order: 15061648
Lab ID: 15061648-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	88	µg/Kg-dry	1	6/30/2015 19:56
Aroclor 1221	U		10	88	µg/Kg-dry	1	6/30/2015 19:56
Aroclor 1232	U		10	88	µg/Kg-dry	1	6/30/2015 19:56
Aroclor 1242	U		10	88	µg/Kg-dry	1	6/30/2015 19:56
Aroclor 1248	U		10	88	µg/Kg-dry	1	6/30/2015 19:56
Aroclor 1254	**88**		**13**	**88**	**µg/Kg-dry**	1	6/30/2015 19:56
Aroclor 1260	**150**		**13**	**88**	**µg/Kg-dry**	1	6/30/2015 19:56
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	6/30/2015 19:56
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**10**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-011
Collection Date: 6/26/2015 12:25 PM

Work Order: 15061648
Lab ID: 15061648-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	90	µg/Kg-dry	1	6/30/2015 20:13
Aroclor 1221	U		11	90	µg/Kg-dry	1	6/30/2015 20:13
Aroclor 1232	U		11	90	µg/Kg-dry	1	6/30/2015 20:13
Aroclor 1242	U		11	90	µg/Kg-dry	1	6/30/2015 20:13
Aroclor 1248	U		11	90	µg/Kg-dry	1	6/30/2015 20:13
Aroclor 1254	U		13	90	µg/Kg-dry	1	6/30/2015 20:13
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	6/30/2015 20:13
BatchID: 72867							
Aroclor 1260	**44,000**		**270**	**1,800**	**µg/Kg-dry**	20	7/1/2015 11:53
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-012
Collection Date: 6/26/2015 01:40 PM

Work Order: 15061648
Lab ID: 15061648-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	6/30/2015 20:29
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	6/30/2015 20:29
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	6/30/2015 20:29
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	6/30/2015 20:29
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	6/30/2015 20:29
Aroclor 1254	U		12	83	µg/Kg-dry	1	6/30/2015 20:29
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	6/30/2015 20:29
BatchID: 72867							
Aroclor 1260	**8,500**		**120**	**830**	**µg/Kg-dry**	10	7/1/2015 12:09
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**5.7**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-013
Collection Date: 6/26/2015 02:05 PM

Work Order: 15061648
Lab ID: 15061648-13
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	85	µg/Kg-dry	1	6/30/2015 20:46
Aroclor 1221	U		10	85	µg/Kg-dry	1	6/30/2015 20:46
Aroclor 1232	U		10	85	µg/Kg-dry	1	6/30/2015 20:46
Aroclor 1242	U		10	85	µg/Kg-dry	1	6/30/2015 20:46
Aroclor 1248	U		10	85	µg/Kg-dry	1	6/30/2015 20:46
Aroclor 1254	U		13	85	µg/Kg-dry	1	6/30/2015 20:46
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	6/30/2015 20:46
BatchID: 72867							
Aroclor 1260	**39,000**		**250**	**1,700**	**µg/Kg-dry**	20	7/1/2015 12:26
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**5.8**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-014
Collection Date: 6/26/2015 02:10 PM

Work Order: 15061648
Lab ID: 15061648-14
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		13	110	µg/Kg-dry	1	6/30/2015 21:02
Aroclor 1221	U		13	110	µg/Kg-dry	1	6/30/2015 21:02
Aroclor 1232	U		13	110	µg/Kg-dry	1	6/30/2015 21:02
Aroclor 1242	U		13	110	µg/Kg-dry	1	6/30/2015 21:02
Aroclor 1248	U		13	110	µg/Kg-dry	1	6/30/2015 21:02
Aroclor 1254	U		16	110	µg/Kg-dry	1	6/30/2015 21:02
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	6/30/2015 21:02
BatchID: 72867							
Aroclor 1260	**42,000**		**310**	**2,100**	**µg/Kg-dry**	20	7/1/2015 12:42
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**22**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-015
Collection Date: 6/26/2015 02:15 PM

Work Order: 15061648
Lab ID: 15061648-15
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	87	µg/Kg-dry	1	6/30/2015 21:18
Aroclor 1221	U		10	87	µg/Kg-dry	1	6/30/2015 21:18
Aroclor 1232	U		10	87	µg/Kg-dry	1	6/30/2015 21:18
Aroclor 1242	U		10	87	µg/Kg-dry	1	6/30/2015 21:18
Aroclor 1248	U		10	87	µg/Kg-dry	1	6/30/2015 21:18
Aroclor 1254	U		13	87	µg/Kg-dry	1	6/30/2015 21:18
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	6/30/2015 21:18
BatchID: 72867							
Aroclor 1260	**25,000**		**260**	**1,700**	**µg/Kg-dry**	20	7/1/2015 12:58
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**5.3**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-016
Collection Date: 6/26/2015 02:20 PM

Work Order: 15061648
Lab ID: 15061648-16
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		9.9	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1221	U		9.9	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1232	U		9.9	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1242	U		9.9	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1248	U		9.9	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1254	U		13	84	µg/Kg-dry	1	6/30/2015 21:35
Aroclor 1260	**220**		**13**	**84**	**µg/Kg-dry**	1	6/30/2015 21:35
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	6/30/2015 21:35
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**5.6**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-017
Collection Date: 6/26/2015 02:25 PM

Work Order: 15061648
Lab ID: 15061648-17
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		10	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1221	U		10	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1232	U		10	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1242	U		10	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1248	U		10	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1254	U		13	88	µg/Kg-dry	1	6/30/2015 21:51
Aroclor 1260	**1,100**		**13**	**88**	**µg/Kg-dry**	1	6/30/2015 21:51
Surr: Decachlorobiphenyl	*71.1*			*40-140*	*%REC*	1	6/30/2015 21:51
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**10**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-018
Collection Date: 6/26/2015 02:30 PM

Work Order: 15061648
Lab ID: 15061648-18
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	95	µg/Kg-dry	1	6/30/2015 22:07
Aroclor 1221	U		11	95	µg/Kg-dry	1	6/30/2015 22:07
Aroclor 1232	U		11	95	µg/Kg-dry	1	6/30/2015 22:07
Aroclor 1242	U		11	95	µg/Kg-dry	1	6/30/2015 22:07
Aroclor 1248	U		11	95	µg/Kg-dry	1	6/30/2015 22:07
Aroclor 1254	**35**	J	**14**	**95**	**µg/Kg-dry**	1	6/30/2015 22:07
Aroclor 1260	**85**	J	**14**	**95**	**µg/Kg-dry**	1	6/30/2015 22:07
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	6/30/2015 22:07
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**15**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-019
Collection Date: 6/26/2015 02:35 PM

Work Order: 15061648
Lab ID: 15061648-19
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		11	89	µg/Kg-dry	1	6/30/2015 22:56
Aroclor 1221	U		11	89	µg/Kg-dry	1	6/30/2015 22:56
Aroclor 1232	U		11	89	µg/Kg-dry	1	6/30/2015 22:56
Aroclor 1242	U		11	89	µg/Kg-dry	1	6/30/2015 22:56
Aroclor 1248	U		11	89	µg/Kg-dry	1	6/30/2015 22:56
Aroclor 1254	U		13	89	µg/Kg-dry	1	6/30/2015 22:56
Surr: Decachlorobiphenyl	*91.1*			*40-140*	*%REC*	1	6/30/2015 22:56
BatchID: 72867							
Aroclor 1260	**45,000**		**260**	**1,800**	**µg/Kg-dry**	20	7/1/2015 13:15
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**7.0**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-020
Collection Date: 6/26/2015 02:40 PM

Work Order: 15061648
Lab ID: 15061648-20
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3541 / 6/29/15		Analyst: **BLM**
BatchID: 72867							
Aroclor 1016	U		9.9	84	µg/Kg-dry	1	6/30/2015 23:13
Aroclor 1221	U		9.9	84	µg/Kg-dry	1	6/30/2015 23:13
Aroclor 1232	U		9.9	84	µg/Kg-dry	1	6/30/2015 23:13
Aroclor 1242	U		9.9	84	µg/Kg-dry	1	6/30/2015 23:13
Aroclor 1248	U		9.9	84	µg/Kg-dry	1	6/30/2015 23:13
Aroclor 1254	U		13	84	µg/Kg-dry	1	6/30/2015 23:13
Surr: Decachlorobiphenyl	*84.1*			*40-140*	*%REC*	1	6/30/2015 23:13
BatchID: 72867							
Aroclor 1260	**12,000**		**250**	**1,700**	**µg/Kg-dry**	20	7/1/2015 13:31
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166607							
Moisture	**6.8**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 10:35

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-021
Collection Date: 6/26/2015 02:45 PM

Work Order: 15061648
Lab ID: 15061648-21
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3550 / 6/29/15		Analyst: **BLM**
BatchID: 72868							
Aroclor 1016	U		10	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1221	U		10	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1232	U		10	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1242	U		10	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1248	U		10	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1254	U		13	85	µg/Kg-dry	1	6/30/2015 23:29
Aroclor 1260	**460**		**13**	**85**	**µg/Kg-dry**	1	6/30/2015 23:29
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	6/30/2015 23:29
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166612							
Moisture	**7.4**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 15:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-022
Collection Date: 6/26/2015 02:50 PM

Work Order: 15061648
Lab ID: 15061648-22
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS			**SW8082**		Prep: SW3550 / 6/29/15		Analyst: **BLM**
BatchID: 72868							
Aroclor 1016	U		11	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1221	U		11	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1232	U		11	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1242	U		11	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1248	U		11	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1254	U		13	90	µg/Kg-dry	1	6/30/2015 23:45
Aroclor 1260	**2,200**		**13**	**90**	**µg/Kg-dry**	1	6/30/2015 23:45
Surr: Decachlorobiphenyl	*82.1*			*40-140*	*%REC*	1	6/30/2015 23:45
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166612							
Moisture	**7.8**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 15:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-023
Collection Date: 6/26/2015 02:55 PM

Work Order: 15061648
Lab ID: 15061648-23
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 6/28/15		Analyst: **ML**
BatchID: 72837							
Lead	**19**		**0.042**	**1.8**	**mg/Kg-dry**	4	6/29/2015 17:52
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166612							
Moisture	**7.5**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 15:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *01-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (017360-T03Y15-02Y15))
Sample ID: SO-017360-062615-EB-024
Collection Date: 6/26/2015 03:00 PM

Work Order: 15061648
Lab ID: 15061648-24
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3050B / 6/28/15		Analyst: **ML**
BatchID: 72837							
Lead	**39**		**0.043**	**1.8**	**mg/Kg-dry**	4	6/29/2015 17:58
MOISTURE			**E160.3M**				Analyst: **PT**
BatchID: R166612							
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	6/29/2015 15:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **72867** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-72867-72867** Units: **µg/Kg** Analysis Date: **6/30/2015 10:25 AM**

Client ID: Run ID: **GC14_150630A** SeqNo: **3351125** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*36.67*	0	*33.3*	0	*110*	*40-140*	0			

LCS Sample ID: **PLCSS1-72867-72867** Units: **µg/Kg** Analysis Date: **6/30/2015 10:41 AM**

Client ID: Run ID: **GC14_150630A** SeqNo: **3351126** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	921	83	833	0	111	50-130	0			
Aroclor 1260	1017	83	833	0	122	50-130	0			
Surr: Decachlorobiphenyl	*36.33*	0	*33.3*	0	*109*	*40-140*	0			

MS Sample ID: **15061648-02A MS** Units: **µg/Kg** Analysis Date: **6/30/2015 04:57 PM**

Client ID: **SO-017360-062615-EB-002** Run ID: **GC14_150630A** SeqNo: **3351129** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	871.6	82	819.5	0	106	40-140	0			
Aroclor 1260	1079	82	819.5	94.79	120	40-140	0			
Surr: Decachlorobiphenyl	*24.92*	0	*32.76*	0	*76.1*	*40-140*	0			

MSD Sample ID: **15061648-02A MSD** Units: **µg/Kg** Analysis Date: **6/30/2015 05:13 PM**

Client ID: **SO-017360-062615-EB-002** Run ID: **GC14_150630A** SeqNo: **3351130** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	856.4	83	826.6	0	104	40-140	871.6	1.76	50	
Aroclor 1260	939.7	83	826.6	94.79	102	40-140	1079	13.8	50	
Surr: Decachlorobiphenyl	*25.8*	0	*33.04*	0	*78.1*	*40-140*	24.92	*3.47*	*50*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15061648
Project: Former GRMP (017360-T03Y15-02Y15))

QC BATCH REPORT

Batch ID: **72867** Instrument ID **GC14** Method: **SW8082**

The following samples were analyzed in this batch:

15061648-01A	15061648-02A	15061648-03A
15061648-04A	15061648-05A	15061648-06A
15061648-07A	15061648-08A	15061648-09A
15061648-10A	15061648-11A	15061648-12A
15061648-13A	15061648-14A	15061648-15A
15061648-16A	15061648-17A	15061648-18A
15061648-19A	15061648-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15061648
Project: Former GRMP (017360-T03Y15-02Y15))

QC BATCH REPORT

Batch ID: **72868** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-72868-72868** Units: **µg/Kg** Analysis Date: **6/30/2015 10:57 AM**
Client ID: Run ID: **GC14_150630A** SeqNo: **3349143** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*35*	0	*33.3*	0	*105*	*40-140*	0			

LCS Sample ID: **PLCSS1-72868-72868** Units: **µg/Kg** Analysis Date: **6/30/2015 11:14 AM**
Client ID: Run ID: **GC14_150630A** SeqNo: **3349144** Prep Date: **6/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	890	83	833	0	107	50-130	0			
Aroclor 1260	1039	83	833	0	125	50-130	0			
Surr: Decachlorobiphenyl	*36.33*	0	*33.3*	0	*109*	*40-140*	0			

MS Sample ID: **15061648-22A MS** Units: **µg/Kg** Analysis Date: **7/1/2015 02:20 PM**
Client ID: **SO-017360-062615-EB-022** Run ID: **GC14_150630A** SeqNo: **3351180** Prep Date: **6/29/2015** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1087	170	825.8	0	132	40-140	0			
Aroclor 1260	2921	170	825.8	2032	108	40-140	0			
Surr: Decachlorobiphenyl	*37.67*	0	*33.01*	0	*114*	*40-140*	0			

MSD Sample ID: **15061648-22A MSD** Units: **µg/Kg** Analysis Date: **7/1/2015 02:36 PM**
Client ID: **SO-017360-062615-EB-022** Run ID: **GC14_150630A** SeqNo: **3351181** Prep Date: **6/29/2015** DF: **2**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	993.5	170	830.3	0	120	40-140	1087	9.01	50	
Aroclor 1260	5047	170	830.3	2032	363	40-140	2921	53.4	50	SR
Surr: Decachlorobiphenyl	*35.89*	0	*33.19*	0	*108*	*40-140*	37.67	*4.86*	*50*	

The following samples were analyzed in this batch:

15061648-21A	15061648-22A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15061648
Project: Former GRMP (017360-T03Y15-02Y15))

QC BATCH REPORT

Batch ID: **72837** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-72837-72837** Units: **mg/Kg** Analysis Date: **6/29/2015 03:41 PM**
Client ID: Run ID: **ICPMS1_150629A** SeqNo: **3347175** Prep Date: **6/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	U	0.25								

LCS Sample ID: **LCS-72837-72837** Units: **mg/Kg** Analysis Date: **6/29/2015 03:47 PM**
Client ID: Run ID: **ICPMS1_150629A** SeqNo: **3347176** Prep Date: **6/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	4.83	0.25	5	0	96.6	80-120	0			

MS Sample ID: **15061682-04AMS** Units: **mg/Kg** Analysis Date: **6/29/2015 08:05 PM**
Client ID: Run ID: **ICPMS1_150629A** SeqNo: **3347233** Prep Date: **6/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	11.64	0.38	7.508	4.738	92	75-125	0			

MSD Sample ID: **15061682-04AMSD** Units: **mg/Kg** Analysis Date: **6/29/2015 08:11 PM**
Client ID: Run ID: **ICPMS1_150629A** SeqNo: **3347234** Prep Date: **6/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Lead	11.42	0.38	7.576	4.738	88.2	75-125	11.64	1.97	25	

The following samples were analyzed in this batch:

15061648-23A	15061648-24A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15061648
Project: Former GRMP (017360-T03Y15-02Y15))

QC BATCH REPORT

Batch ID: **R166607** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R166607** Units: **% of sample** Analysis Date: **6/29/2015 10:35 AM**
Client ID: Run ID: **MOIST_150629A** SeqNo: **3347861** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R166607** Units: **% of sample** Analysis Date: **6/29/2015 10:35 AM**
Client ID: Run ID: **MOIST_150629A** SeqNo: **3347860** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15061648-06A DUP** Units: **% of sample** Analysis Date: **6/29/2015 10:35 AM**
Client ID: **SO-017360-062615-EB-006** Run ID: **MOIST_150629A** SeqNo: **3347841** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.97	0.050	0	0	0		9.64	7.2	20	

DUP Sample ID: **15061648-11A DUP** Units: **% of sample** Analysis Date: **6/29/2015 10:35 AM**
Client ID: **SO-017360-062615-EB-011** Run ID: **MOIST_150629A** SeqNo: **3347847** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.97	0.050	0	0	0		10.54	4	20	

The following samples were analyzed in this batch:

15061648-01A	15061648-02A	15061648-03A
15061648-04A	15061648-05A	15061648-06A
15061648-07A	15061648-08A	15061648-09A
15061648-10A	15061648-11A	15061648-12A
15061648-13A	15061648-14A	15061648-15A
15061648-16A	15061648-17A	15061648-18A
15061648-19A	15061648-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15061648
Project: Former GRMP (017360-T03Y15-02Y15))

QC BATCH REPORT

Batch ID: **R166612** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R166612** Units: **% of sample** Analysis Date: **6/29/2015 03:00 PM**
Client ID: Run ID: **MOIST_150629B** SeqNo: **3348048** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R166612** Units: **% of sample** Analysis Date: **6/29/2015 03:00 PM**
Client ID: Run ID: **MOIST_150629B** SeqNo: **3348047** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15061648-22A DUP** Units: **% of sample** Analysis Date: **6/29/2015 03:00 PM**
Client ID: **SO-017360-062615-EB-022** Run ID: **MOIST_150629B** SeqNo: **3348041** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.22	0.050	0	0	0		7.79	5.37	20	

DUP Sample ID: **15061648-23A DUP** Units: **% of sample** Analysis Date: **6/29/2015 03:00 PM**
Client ID: **SO-017360-062615-EB-023** Run ID: **MOIST_150629B** SeqNo: **3348044** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.97	0.050	0	0	0		7.54	5.54	20	

The following samples were analyzed in this batch:

15061648-21A	15061648-22A	15061648-23A
15061648-24A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

CHAIN OF CUSTODY RECORD

COC NO.: PL- 11908
PAGE 1 OF 2

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-TO3915-02915	Laboratory Name: ALS	Lab Location: Holland, MI	SSOW ID: 7380
Project Name: Former GRMA	Lab Contact: Chad Wheltzer	Lab Quote No:	Cooler No:
Project Location: Wyoming, MI			Carrier: drop off
Chemistry Contact: Kayla Fleischer			Airbill No:
Sampler(s): E. Batenburg			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Sample Type / Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 5g/25g	Other:	Total Containers/Samples	Analysis Requested (See Back of COC for Definitions): PCBs (Pb Volatiles)	6 days	Hg/MeHg Request	Comments/ Special Instructions:
1	SO-017360-062615-EB-001	6/26/15	900	SO	G										X			
2	-002		915												X			
3	-003		925												X			
4	-004		940												X			
5	-005		950												X			
6	-006		955												X			
7	-007		1000												X			
8	-008		1240												X			
9	-009		1250												X			
10	-010		1205												X			
11	-011		1225												X			
12	-012		1340												X			
13	-013		1405												X			
14	-014		1410												X			
15	-015		1415												X			

TAT Required in business days (use separate COCs for different TATs): ☐ 1 Day ☒ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other

Total Number of Containers: 15

All Samples in Cooler must be on COC

Notes/ Special Requirements: 4.8°C

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	6-26-15	1605	1.			
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-1bA (2/11/0804)

CHAIN OF CUSTODY RECORD

COC NO.: PL-11907
PAGE 2 OF 2

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360	Laboratory Name: ALS	Lab Location: Holland, MI	SSOW ID: 17360
Project Name: Former GRM Property	Lab Contact: Chad Whelton	Lab Quote No:	Cooler No:
Project Location: Wyoming, MI			Carrier: Hand Delivered
Chemistry Contact: Kara Fleszar			Airbill No:
Sampler(s): Ed Barteldes			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Sample Type: Matrix Code (see back of COC)	Sample Type: (Grab (G) or Comp (C))	Container Quantity & Preservation: (Unpreserved)	HCl	HNO3	H2SO4	NaOH	Methanol/Water (Soil VOC)	EnCore Sampler 1x25g	Other	Total Containers/Sample	Analysis Requested: Pb (6010/7421)					Ks/MS/Request	Comments/ Special Instructions:
1	SO-017360-062615-EB-016	6/26/15	1420	SO	G	1								1	X						
2	-017		1425												X						
3	-018		1430												X						
4	-019		1435												X						
5	-026		1440												X						
6	-021		1445												X						
7	-022		1450											2	X					X	MS/MSD
8	-023		1455		G									1		X					
9	-024		1500		G										X						
10																					
11																					
12																					
13																					
14																					
15																					

TAT Required in business days (use Separate COCs for different TATs):
☐ 1 Day ☒ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other

Total Number of Containers: 10

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	6-26-15	1605	1.			
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT — ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE — Fully Executed Copy (CRA) YELLOW — Receiving Laboratory Copy PINK — Shipper GOLDENROD — Sampling Crew

CRA Form: COC-10A (20110804)

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **26-Jun-15 16:05**

Work Order: **15061648** Received by: **KRW**

Checklist completed by Bill Carey (eSignature) 26-Jun-15 (Date) Reviewed by: Chad Whilton (eSignature) 29-Jun-15 (Date)

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	6/26/2015 4:48:23 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

06-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **1507083**

Dear Rawa,

ALS Environmental received 8 samples on 01-Jul-2015 01:40 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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ALS Group USA, Corp

Date: 06-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **1507083**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1507083-01	SO-017360-070115-EB-001	Soil		7/1/2015 11:40	7/1/2015 13:40	☐
1507083-02	SO-017360-070115-EB-002	Soil		7/1/2015 11:50	7/1/2015 13:40	☐
1507083-03	SO-017360-070115-EB-003	Soil		7/1/2015 12:00	7/1/2015 13:40	☐
1507083-04	SO-017360-070115-EB-004	Soil		7/1/2015 12:20	7/1/2015 13:40	☐
1507083-05	SO-017360-070115-EB-005	Soil		7/1/2015 12:35	7/1/2015 13:40	☐
1507083-06	SO-017360-070115-EB-006	Soil		7/1/2015 12:45	7/1/2015 13:40	☐
1507083-07	SO-017360-070115-EB-007	Soil		7/1/2015 12:55	7/1/2015 13:40	☐
1507083-08	SO-017360-070115-EB-008	Soil		7/1/2015 13:00	7/1/2015 13:40	☐

ALS Group USA, Corp

Date: 06-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **1507083**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-001
Collection Date: 7/1/2015 11:40 AM

Work Order: 1507083
Lab ID: 1507083-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/2/15		Analyst: **KYM**
Aroclor 1016	U		10	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1221	U		10	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1232	U		10	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1242	U		10	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1248	U		10	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1254	U		13	85	µg/Kg-dry	1	7/2/2015 20:02
Aroclor 1260	**450**		**13**	**85**	**µg/Kg-dry**	1	7/2/2015 20:02
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	7/2/2015 20:02
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**3.8**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-002
Collection Date: 7/1/2015 11:50 AM

Work Order: 1507083
Lab ID: 1507083-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/2/15		Analyst: **KYM**
Aroclor 1016	U		10	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1221	U		10	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1232	U		10	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1242	U		10	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1248	U		10	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1254	U		13	86	µg/Kg-dry	1	7/2/2015 20:18
Aroclor 1260	**260**		**13**	**86**	**µg/Kg-dry**	1	7/2/2015 20:18
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	7/2/2015 20:18
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**4.2**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-003
Collection Date: 7/1/2015 12:00 PM

Work Order: 1507083
Lab ID: 1507083-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3541 / 7/2/15			Analyst: **KYM**
Aroclor 1016	U		9.7	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1221	U		9.7	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1232	U		9.7	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1242	U		9.7	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1248	U		9.7	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1254	U		12	82	µg/Kg-dry	1	7/2/2015 20:34
Aroclor 1260	**280**		**12**	**82**	**µg/Kg-dry**	1	7/2/2015 20:34
Surr: Decachlorobiphenyl	*93.1*			*40-140*	*%REC*	1	7/2/2015 20:34
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**4.0**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-004
Collection Date: 7/1/2015 12:20 PM

Work Order: 1507083
Lab ID: 1507083-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3541 / 7/2/15			Analyst: **KYM**
Aroclor 1016	U		10	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1221	U		10	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1232	U		10	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1242	U		10	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1248	U		10	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1254	U		13	85	µg/Kg-dry	1	7/2/2015 20:51
Aroclor 1260	U		13	85	µg/Kg-dry	1	7/2/2015 20:51
Surr: Decachlorobiphenyl	*94.1*			*40-140*	*%REC*	1	7/2/2015 20:51
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**3.1**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-005
Collection Date: 7/1/2015 12:35 PM

Work Order: 1507083
Lab ID: 1507083-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3541 / 7/2/15			Analyst: **KYM**
Aroclor 1016	U		10	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1221	U		10	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1232	U		10	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1242	U		10	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1248	U		10	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1254	U		13	86	µg/Kg-dry	1	7/2/2015 21:07
Aroclor 1260	**670**		**13**	**86**	**µg/Kg-dry**	1	7/2/2015 21:07
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	7/2/2015 21:07
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**4.9**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-006
Collection Date: 7/1/2015 12:45 PM

Work Order: 1507083
Lab ID: 1507083-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/2/15		Analyst: **KYM**
Aroclor 1016	U		9.5	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1221	U		9.5	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1232	U		9.5	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1242	U		9.5	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1248	U		9.5	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1254	U		12	80	µg/Kg-dry	1	7/2/2015 21:56
Aroclor 1260	**720**		**12**	**80**	**µg/Kg-dry**	1	7/2/2015 21:56
Surr: Decachlorobiphenyl	*88.1*			*40-140*	*%REC*	1	7/2/2015 21:56
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**2.4**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-007
Collection Date: 7/1/2015 12:55 PM

Work Order: 1507083
Lab ID: 1507083-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/2/15		Analyst: **KYM**
Aroclor 1016	U		10	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1221	U		10	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1232	U		10	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1242	U		10	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1248	U		10	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1254	U		13	86	µg/Kg-dry	1	7/2/2015 22:12
Aroclor 1260	**40**	J	**13**	**86**	**µg/Kg-dry**	1	7/2/2015 22:12
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	7/2/2015 22:12
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**5.2**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *06-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-070115-EB-008
Collection Date: 7/1/2015 01:00 PM

Work Order: 1507083
Lab ID: 1507083-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/2/15		Analyst: **KYM**
Aroclor 1016	U		11	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1221	U		11	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1232	U		11	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1242	U		11	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1248	U		11	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1254	U		14	91	µg/Kg-dry	1	7/2/2015 22:29
Aroclor 1260	**39**	J	**14**	**91**	**µg/Kg-dry**	1	7/2/2015 22:29
Surr: Decachlorobiphenyl	*69.1*			*40-140*	*%REC*	1	7/2/2015 22:29
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	7/2/2015 13:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 06-Jul-15

Client: GHD Services Inc.

Work Order: 1507083

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **73066** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-73066-73066** Units: **µg/Kg** Analysis Date: **7/2/2015 06:40 PM**

Client ID: Run ID: **GC14_150702B** SeqNo: **3354155** Prep Date: **7/2/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*26.67*	0	*33.3*	0	*80.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-73066-73066** Units: **µg/Kg** Analysis Date: **7/2/2015 06:56 PM**

Client ID: Run ID: **GC14_150702B** SeqNo: **3354156** Prep Date: **7/2/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	870	83	833	0	104	50-130	0			
Aroclor 1260	891.3	83	833	0	107	50-130	0			
Surr: Decachlorobiphenyl	*28.67*	0	*33.3*	0	*86.1*	*40-140*	0			

MS Sample ID: **1507083-05A MS** Units: **µg/Kg** Analysis Date: **7/2/2015 09:23 PM**

Client ID: **SO-017360-070115-EB-005** Run ID: **GC14_150702B** SeqNo: **3354162** Prep Date: **7/2/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	947.4	83	830.4	0	114	40-140	0			
Aroclor 1260	1359	83	830.4	632.7	87.4	40-140	0			
Surr: Decachlorobiphenyl	*26.25*	0	*33.2*	0	*79.1*	*40-140*	0			

MSD Sample ID: **1507083-05A MSD** Units: **µg/Kg** Analysis Date: **7/2/2015 09:40 PM**

Client ID: **SO-017360-070115-EB-005** Run ID: **GC14_150702B** SeqNo: **3354163** Prep Date: **7/2/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	908.2	81	809.7	0	112	40-140	947.4	4.22	50	
Aroclor 1260	1283	81	809.7	632.7	80.3	40-140	1359	5.76	50	
Surr: Decachlorobiphenyl	*25.6*	0	*32.37*	0	*79.1*	*40-140*	26.25	*2.53*	*50*	

The following samples were analyzed in this batch:

1507083-01A	1507083-02A	1507083-03A
1507083-04A	1507083-05A	1507083-06A
1507083-07A	1507083-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1507083
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R166906** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R166906** Units: **% of sample** Analysis Date: **7/2/2015 01:55 PM**
Client ID: Run ID: **MOIST_150702C** SeqNo: **3354383** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R166906** Units: **% of sample** Analysis Date: **7/2/2015 01:55 PM**
Client ID: Run ID: **MOIST_150702C** SeqNo: **3354382** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1507020-01B DUP** Units: **% of sample** Analysis Date: **7/2/2015 01:55 PM**
Client ID: Run ID: **MOIST_150702C** SeqNo: **3354361** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	18.01	0.050	0	0	0		17.86	0.836	20	

DUP Sample ID: **1507083-05A DUP** Units: **% of sample** Analysis Date: **7/2/2015 01:55 PM**
Client ID: **SO-017360-070115-EB-005** Run ID: **MOIST_150702C** SeqNo: **3354377** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.79	0.050	0	0	0		4.9	2.27	20	

The following samples were analyzed in this batch:

1507083-01A	1507083-02A	1507083-03A
1507083-04A	1507083-05A	1507083-06A
1507083-07A	1507083-08A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

CHAIN OF CUSTODY RECORD

COC NO.: PL-11909
PAGE 1 OF 1

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-TIMS-02N15	Laboratory Name: ALS	Lab Location: Holland, MI	SSOW ID:
Project Name: Former GRM Plant Raceway	Lab Contact: Chad Whelton	Lab Quote No:	Cooler No:
Project Location: Wyoming, MI			Carrier: Fed Ex
Chemistry Contact: Ravinder Flesher			Airbill No:
Sampler(s): K. Petroelje			Date Shipped:

Item	Sample Identification (If containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (60:40) (VOC)	1x250ml 1x125g EnCore Sampler	Other:	Total Containers/Sample	Analysis Requested (See Back of COC for Definitions): PCBs						MS/MSD Request	Comments/ Special Instructions:
1	SO-017360-070115-EB-001	7-1-15	1140	SO	G	1								1	X							
2	-002		1150			1								1	X							
3	-003		1200			1								1	X							
4	-004		1220			1								1	X							
5	-005		1235			2								2	X						X	MS/MSD
6	-006		1245			1								1	X							
7	-007		1255			1								1	X							
8	-008		1300	W	G	1								1	X							
9																						
10																						
11																						
12																						
13																						
14																						
15																						

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☒ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other:

Total Number of Containers: 9
All Samples in Cooler must be on COC

Notes/ Special Requirements: 3.8°C

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	7-1-15	1340	1.	ALS	7/1/15	1340
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (2010904)

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **01-Jul-15 13:40**

Work Order: **1507083** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 01-Jul-15 (Date) Reviewed by: Chad Whelton (eSignature) 02-Jul-15 (Date)

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.8 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/1/2015 3:49:53 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

27-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **15071261**

Dear Rawa,

ALS Environmental received 3 samples on 23-Jul-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 11.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Group USA, Corp

Date: 27-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **15071261**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15071261-01	SO-017360-072215-EB-001A	Soil		7/22/2015 15:00	7/23/2015 09:30	☐
15071261-02	SO-017360-072215-EB-002A	Soil		7/22/2015 15:20	7/23/2015 09:30	☐
15071261-03	SO-017360-072215-EB-003A	Soil		7/22/2015 15:35	7/23/2015 09:30	☐

ALS Group USA, Corp

Date: 27-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **15071261**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *27-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072215-EB-001A
Collection Date: 7/22/2015 03:00 PM

Work Order: 15071261
Lab ID: 15071261-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/23/15		Analyst: **BLM**
Aroclor 1016	U		26	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1221	U		26	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1232	U		26	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1242	U		26	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1248	U		26	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1254	U		33	220	µg/Kg-dry	1	7/24/2015 08:31
Aroclor 1260	U		33	220	µg/Kg-dry	1	7/24/2015 08:31
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	7/24/2015 08:31
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**63**		**0.025**	**0.050**	**% of sample**	1	7/23/2015 14:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072215-EB-002A
Collection Date: 7/22/2015 03:20 PM

Work Order: 15071261
Lab ID: 15071261-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/23/15		Analyst: **BLM**
Aroclor 1016	U		21	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1221	U		21	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1232	U		21	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1242	U		21	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1248	U		21	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1254	U		27	180	µg/Kg-dry	1	7/24/2015 08:47
Aroclor 1260	**1,500**		**27**	**180**	**µg/Kg-dry**	1	7/24/2015 08:47
Surr: Decachlorobiphenyl	*84.1*			*40-140*	*%REC*	1	7/24/2015 08:47
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**56**		**0.025**	**0.050**	**% of sample**	1	7/23/2015 14:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *27-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072215-EB-003A
Collection Date: 7/22/2015 03:35 PM

Work Order: 15071261
Lab ID: 15071261-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/23/15		Analyst: **BLM**
Aroclor 1016	U		23	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1221	U		23	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1232	U		23	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1242	U		23	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1248	U		23	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1254	U		29	200	µg/Kg-dry	1	7/24/2015 09:21
Aroclor 1260	U		29	200	µg/Kg-dry	1	7/24/2015 09:21
Surr: Decachlorobiphenyl	*98.1*			*40-140*	*%REC*	1	7/24/2015 09:21
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**58**		**0.025**	**0.050**	**% of sample**	1	7/23/2015 14:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 27-Jul-15

Client: GHD Services Inc.

Work Order: 15071261

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **73926** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-73926-73926** Units: **µg/Kg** Analysis Date: **7/23/2015 08:31 PM**

Client ID: Run ID: **GC14_150723B** SeqNo: **3385438** Prep Date: **7/23/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*37.67*	0	*33.3*	0	*113*	*40-140*	0			

LCS Sample ID: **PLCSS1-73926-73926** Units: **µg/Kg** Analysis Date: **7/23/2015 08:48 PM**

Client ID: Run ID: **GC14_150723B** SeqNo: **3385440** Prep Date: **7/23/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	927	83	833	0	111	50-130	0			
Aroclor 1260	884.7	83	833	0	106	50-130	0			
Surr: Decachlorobiphenyl	*39*	0	*33.3*	0	*117*	*40-140*	0			

MS Sample ID: **15071202-29A MS** Units: **µg/Kg** Analysis Date: **7/24/2015 07:25 AM**

Client ID: Run ID: **GC14_150723B** SeqNo: **3385490** Prep Date: **7/23/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1014	79	790.1	0	128	40-140	0			
Aroclor 1260	985.8	79	790.1	0	125	40-140	0			
Surr: Decachlorobiphenyl	*37.31*	0	*31.59*	0	*118*	*40-140*	0			

MSD Sample ID: **15071202-29A MSD** Units: **µg/Kg** Analysis Date: **7/24/2015 07:42 AM**

Client ID: Run ID: **GC14_150723B** SeqNo: **3385491** Prep Date: **7/23/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	951.6	80	800.4	0	119	40-140	1014	6.34	50	
Aroclor 1260	950	80	800.4	0	119	40-140	985.8	3.7	50	
Surr: Decachlorobiphenyl	*34.27*	0	*32*	0	*107*	*40-140*	37.31	*8.48*	*50*	

The following samples were analyzed in this batch:

15071261-01A	15071261-02A	15071261-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071261
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R168293** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R168293** Units: **% of sample** Analysis Date: **7/23/2015 02:55 PM**
Client ID: Run ID: **MOIST_150723D** SeqNo: **3385326** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R168293** Units: **% of sample** Analysis Date: **7/23/2015 02:55 PM**
Client ID: Run ID: **MOIST_150723D** SeqNo: **3385325** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15071193-06B DUP** Units: **% of sample** Analysis Date: **7/23/2015 02:55 PM**
Client ID: Run ID: **MOIST_150723D** SeqNo: **3385306** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	14.85	0.050	0	0	0		14.25	4.12	20	

DUP Sample ID: **15071266-01A DUP** Units: **% of sample** Analysis Date: **7/23/2015 02:55 PM**
Client ID: Run ID: **MOIST_150723D** SeqNo: **3385324** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.57	0.050	0	0	0		6.52	0.764	20	

The following samples were analyzed in this batch:

15071261-01A	15071261-02A	15071261-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

Page 1 of 1

COC ID: 17772

ALS Project Manager: Chad Whelton | ALS Work Order #: S071260

Customer Information

Purchase Order	
Work Order	
Company Name	GHD
Send Report To	Earl Batenburg / Jeni Quigley
Address	200 W. Allegan Ste. 300
City/State/Zip	Plainwell, MI
Phone	269.685.5181
Fax	
e-Mail Address	earl.batenburg@ghd.com

Project Information

Project Name	Former GRAM
Project Number	017360-T03Y15-02Y15
Bill To Company	Same
Invoice Attn	
Address	
City/State/Zip	
Phone	
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A	PCBs
B	
C	
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SO-017360-072215-EB-001A	7-22-15	1500	SO	none	1	X										
2	-002A		1520				X										
3	-003A		1535				X										
4																	
5																	
6																	
7		7-22-15		EB													
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Earl Batenburg

Shipment Method: Fedex

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 3 Wk Days ☐ 1-Hour ☐ Other 2 days

Results Due Date:

Relinquished by:	Date: 7-22-15	Time: 1630	Received by:
Relinquished by:	Date: 07/23/15	Time: 0930	Received by (Laboratory):
Logged by (Laboratory): DFS	Date: 7/23/15	Time: 1030	Checked by (Laboratory):

Notes:

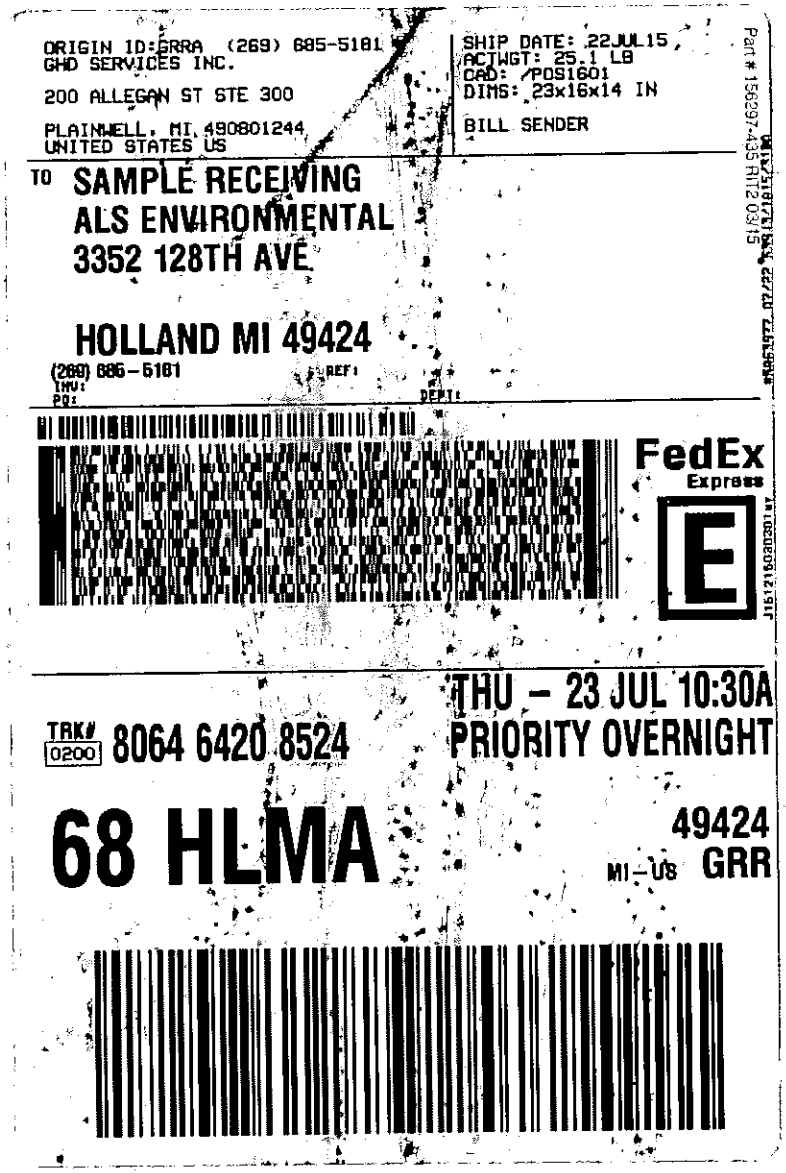
Cooler ID	Cooler Temp
	3.1C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2012 by ALS Environmental.



ORIGIN ID:GRRA (269) 685-5181
GHD SERVICES INC.
200 ALLEGAN ST STE 300
PLAINWELL, MI 490801244
UNITED STATES US

SHIP DATE: 22JUL15
ACTWGT: 25.1 LB
CAD: /PDS1601
DIMS: 23x16x14 IN
BILL SENDER

TO SAMPLE RECEIVING
ALS ENVIRONMENTAL
3352 128TH AVE

HOLLAND MI 49424
(269) 686-5161
REF:
INV:
PO:
DEPT:

Part # 156297-435 FHT2 03/15

FedEx Express

THU - 23 JUL 10:30A
PRIORITY OVERNIGHT

TRK# 0200 8064 6420 8524

68 HLMA

49424
MI-US GRR

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **23-Jul-15 09:30**

Work Order: **15071261** Received by: **TBB**

Checklist completed by Diane Shaw (eSignature) 23-Jul-15 (Date) Reviewed by: Chad Whelton (eSignature) 23-Jul-15 (Date)

Matrices: Soil

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/23/2015 10:35:21 AM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

29-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **15071515**

Dear Rawa,

ALS Environmental received 6 samples on 27-Jul-2015 04:15 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Group USA, Corp

Date: 29-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **15071515**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15071515-01	SO-017360-072715-EB-004A	Soil		7/27/2015 13:30	7/27/2015 16:15	☐
15071515-02	SO-017360-072715-EB-005A	Soil		7/27/2015 13:40	7/27/2015 16:15	☐
15071515-03	SO-017360-072715-EB-006A	Soil		7/27/2015 13:55	7/27/2015 16:15	☐
15071515-04	SO-017360-072715-EB-007A	Soil		7/27/2015 14:15	7/27/2015 16:15	☐
15071515-05	SO-017360-072715-EB-008A	Soil		7/27/2015 14:30	7/27/2015 16:15	☐
15071515-06	SO-017360-072715-EB-009A	Soil		7/27/2015 14:45	7/27/2015 16:15	☐

ALS Group USA, Corp

Date: 29-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **15071515**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-004A
Collection Date: 7/27/2015 01:30 PM

Work Order: 15071515
Lab ID: 15071515-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3541 / 7/28/15			Analyst: **BLM**
Aroclor 1016	U		190	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1221	U		190	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1232	U		190	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1242	U		190	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1248	U		190	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1254	U		240	1,600	µg/Kg-dry	20	7/29/2015 09:27
Aroclor 1260	**48,000**		**240**	**1,600**	**µg/Kg-dry**	20	7/29/2015 09:27
Surr: Decachlorobiphenyl	*100*			*40-140*	*%REC*	20	7/29/2015 09:27
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**0.46**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-005A
Collection Date: 7/27/2015 01:40 PM

Work Order: 15071515
Lab ID: 15071515-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/28/15		Analyst: **BLM**
Aroclor 1016	U		10	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1221	U		10	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1232	U		10	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1242	U		10	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1248	U		10	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1254	U		13	88	µg/Kg-dry	1	7/28/2015 23:38
Aroclor 1260	**440**		**13**	**88**	**µg/Kg-dry**	1	7/28/2015 23:38
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	7/28/2015 23:38
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**7.8**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-006A
Collection Date: 7/27/2015 01:55 PM

Work Order: 15071515
Lab ID: 15071515-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/28/15		Analyst: **BLM**
Aroclor 1016	U		11	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1221	U		11	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1232	U		11	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1242	U		11	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1248	U		11	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1254	U		14	93	µg/Kg-dry	1	7/28/2015 23:55
Aroclor 1260	**21**	J	**14**	**93**	**µg/Kg-dry**	1	7/28/2015 23:55
Surr: Decachlorobiphenyl	*87.1*			*40-140*	*%REC*	1	7/28/2015 23:55
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-007A
Collection Date: 7/27/2015 02:15 PM

Work Order: 15071515
Lab ID: 15071515-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3541 / 7/28/15			Analyst: **BLM**
Aroclor 1016	U		14	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1221	U		14	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1232	U		14	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1242	U		14	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1248	U		14	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1254	U		18	120	µg/Kg-dry	1	7/29/2015 00:11
Aroclor 1260	**210**		**18**	**120**	**µg/Kg-dry**	1	7/29/2015 00:11
Surr: Decachlorobiphenyl	*80.1*			*40-140*	*%REC*	1	7/29/2015 00:11
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**33**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-008A
Collection Date: 7/27/2015 02:30 PM

Work Order: 15071515
Lab ID: 15071515-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/28/15		Analyst: **BLM**
Aroclor 1016	U		10	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1221	U		10	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1232	U		10	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1242	U		10	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1248	U		10	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1254	U		13	88	µg/Kg-dry	1	7/29/2015 00:27
Aroclor 1260	**19**	J	**13**	**88**	**µg/Kg-dry**	1	7/29/2015 00:27
Surr: Decachlorobiphenyl	*84.1*			*40-140*	*%REC*	1	7/29/2015 00:27
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**6.2**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *29-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072715-EB-009A
Collection Date: 7/27/2015 02:45 PM

Work Order: 15071515
Lab ID: 15071515-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/28/15		Analyst: **BLM**
Aroclor 1016	U		10	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1221	U		10	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1232	U		10	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1242	U		10	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1248	U		10	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1254	U		13	89	µg/Kg-dry	1	7/29/2015 00:44
Aroclor 1260	U		13	89	µg/Kg-dry	1	7/29/2015 00:44
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	7/29/2015 00:44
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**6.0**		**0.025**	**0.050**	**% of sample**	1	7/28/2015 13:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 29-Jul-15

Client: GHD Services Inc.

Work Order: 15071515

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **74090** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-74090-74090** Units: **µg/Kg** Analysis Date: **7/28/2015 01:00 PM**

Client ID: Run ID: **GC14_150728C** SeqNo: **3391633** Prep Date: **7/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*27.67*	0	*33.3*	0	*83.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-74090-74090** Units: **µg/Kg** Analysis Date: **7/28/2015 01:17 PM**

Client ID: Run ID: **GC14_150728C** SeqNo: **3391634** Prep Date: **7/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	984	83	833	0	118	50-130	0			
Aroclor 1260	816	83	833	0	98	50-130	0			
Surr: Decachlorobiphenyl	*28.33*	0	*33.3*	0	*85.1*	*40-140*	0			

MS Sample ID: **15071424-17B MS** Units: **µg/Kg** Analysis Date: **7/28/2015 09:44 PM**

Client ID: Run ID: **GC14_150728C** SeqNo: **3391636** Prep Date: **7/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	969.5	82	820.7	0	118	40-140	0			
Aroclor 1260	840.4	82	820.7	0	102	40-140	0			
Surr: Decachlorobiphenyl	*26.6*	0	*32.81*	0	*81.1*	*40-140*	0			

MSD Sample ID: **15071424-17B MSD** Units: **µg/Kg** Analysis Date: **7/28/2015 10:00 PM**

Client ID: Run ID: **GC14_150728C** SeqNo: **3391637** Prep Date: **7/28/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1035	81	812.9	0	127	40-140	969.5	6.51	50	
Aroclor 1260	851.9	81	812.9	0	105	40-140	840.4	1.36	50	
Surr: Decachlorobiphenyl	*27*	0	*32.5*	0	*83.1*	*40-140*	26.6	*1.48*	*50*	

The following samples were analyzed in this batch:

15071515-01A	15071515-02A	15071515-03A
15071515-04A	15071515-05A	15071515-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071515
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R168553** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R168553** Units: **% of sample** Analysis Date: **7/28/2015 01:02 PM**
Client ID: Run ID: **MOIST_150728A** SeqNo: **3391618** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R168553** Units: **% of sample** Analysis Date: **7/28/2015 01:02 PM**
Client ID: Run ID: **MOIST_150728A** SeqNo: **3391617** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15071336-01B DUP** Units: **% of sample** Analysis Date: **7/28/2015 01:02 PM**
Client ID: Run ID: **MOIST_150728A** SeqNo: **3391573** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.77	0.050	0	0	0		9.38	6.72	20	

DUP Sample ID: **15071492-01A DUP** Units: **% of sample** Analysis Date: **7/28/2015 01:02 PM**
Client ID: Run ID: **MOIST_150728A** SeqNo: **3391585** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	6.53	0.050	0	0	0		7.59	15	20	

The following samples were analyzed in this batch:

15071515-01A	15071515-02A	15071515-03A
15071515-04A	15071515-05A	15071515-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 17777

ALS Project Manager: Chad Wiethorn | ALS Work Order #: 1507151S

Customer Information

Purchase Order	
Work Order	
Company Name	GHD
Send Report To	Earl Batenburg / Teri Quigley
Address	200 W. Allegan Ste. 300
City/State/Zip	Plainwell MI 49080
Phone	269.685.5181
Fax	
e-Mail Address	earl.batenburg@ghd.com

Project Information

Project Name	Former GRAND RACER
Project Number	017380-T03YIS-02YIS
Bill To Company	Same
Invoice Attn	
Address	
City/State/Zip	
Phone	
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A	PCBs
B	
C	
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SO-017380-072715-EB-004A	7/27/15	1330	SO	none	1	X										
2	005A		1340				X										
3	006A		1355				X										
4	007A		1415				X										
5	008A		1430				X										
6	009A		1445				X										
7																	
8				EB													
9				7-28-15													
10																	

Sampler(s) Please Print & Sign: Earl Batenburg

Shipment Method: drop @ lab

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☒ 24 Hour

Results Due Date: Wed 7/29/15 8AM

Notes:

Relinquished by:	Date: 7/27/15	Time: 1530	Received by:
Relinquished by:	Date: 7/27/15	Time: 1615	Received by (Laboratory):
Logged by (Laboratory): DES	Date: 7/27/15	Time: 1630	Checked by (Laboratory):

Cooler ID	Cooler Temp
	4.0 °C

QC Package: (Check One Box Below)

- ☐ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **27-Jul-15 16:15**

Work Order: **15071515** Received by: **CW**

Checklist completed by Diane Shaw (eSignature) 27-Jul-15 (Date) Reviewed by: Chad Whelton (eSignature) 27-Jul-15 (Date)

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/27/2015 4:34:21 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

30-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **15071580**

Dear Rawa,

ALS Environmental received 12 samples on 28-Jul-2015 03:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 20.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
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ALS Group USA, Corp

Date: 30-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **15071580**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15071580-01	SD-017360-072815-EB-010A	Soil		7/28/2015 13:00	7/28/2015 15:00	☐
15071580-02	SD-017360-072815-EB-011A	Soil		7/28/2015 13:05	7/28/2015 15:00	☐
15071580-03	SD-017360-072815-EB-012A	Soil		7/28/2015 13:15	7/28/2015 15:00	☐
15071580-04	SD-017360-072815-EB-013A	Soil		7/28/2015 13:20	7/28/2015 15:00	☐
15071580-05	SD-017360-072815-EB-014A	Soil		7/28/2015 13:30	7/28/2015 15:00	☐
15071580-06	SD-017360-072815-EB-015A	Soil		7/28/2015 13:25	7/28/2015 15:00	☐
15071580-07	SD-017360-072815-EB-016A	Soil		7/28/2015 13:20	7/28/2015 15:00	☑
15071580-08	SD-017360-072815-EB-017A	Soil		7/28/2015 13:30	7/28/2015 15:00	☐
15071580-09	SD-017360-072815-EB-018A	Soil		7/28/2015 13:40	7/28/2015 15:00	☐
15071580-10	SD-017360-072815-EB-019A	Soil		7/28/2015 13:50	7/28/2015 15:00	☐
15071580-11	SD-017360-072815-EB-020A	Soil		7/28/2015 13:55	7/28/2015 15:00	☐
15071580-12	SD-017360-072815-EB-021A	Soil		7/28/2015 14:00	7/28/2015 15:00	☐

ALS Group USA, Corp

Date: 30-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **15071580**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-010A
Collection Date: 7/28/2015 01:00 PM

Work Order: 15071580
Lab ID: 15071580-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**		Prep: SW3550 / 7/29/15			Analyst: **BLM**
Aroclor 1016	U		11	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1221	U		11	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1232	U		11	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1242	U		11	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1248	U		11	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1254	U		14	92	µg/Kg-dry	1	7/29/2015 12:57
Aroclor 1260	**170**		**14**	**92**	**µg/Kg-dry**	1	7/29/2015 12:57
Surr: Decachlorobiphenyl	*72.1*			*40-140*	*%REC*	1	7/29/2015 12:57
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-011A
Collection Date: 7/28/2015 01:05 PM

Work Order: 15071580
Lab ID: 15071580-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		11	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1221	U		11	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1232	U		11	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1242	U		11	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1248	U		11	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1254	U		14	92	µg/Kg-dry	1	7/29/2015 13:14
Aroclor 1260	**260**		**14**	**92**	**µg/Kg-dry**	1	7/29/2015 13:14
Surr: Decachlorobiphenyl	*82.1*			*40-140*	*%REC*	1	7/29/2015 13:14
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**12**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-012A
Collection Date: 7/28/2015 01:15 PM

Work Order: 15071580
Lab ID: 15071580-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		11	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1221	U		11	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1232	U		11	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1242	U		11	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1248	U		11	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1254	U		13	91	µg/Kg-dry	1	7/29/2015 13:30
Aroclor 1260	U		13	91	µg/Kg-dry	1	7/29/2015 13:30
Surr: Decachlorobiphenyl	*79.1*			*40-140*	*%REC*	1	7/29/2015 13:30
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**11**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-013A
Collection Date: 7/28/2015 01:20 PM

Work Order: 15071580
Lab ID: 15071580-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		10	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1221	U		10	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1232	U		10	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1242	U		10	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1248	U		10	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1254	U		13	87	µg/Kg-dry	1	7/29/2015 14:19
Aroclor 1260	**31**	J	**13**	**87**	**µg/Kg-dry**	1	7/29/2015 14:19
Surr: Decachlorobiphenyl	*74.1*			*40-140*	*%REC*	1	7/29/2015 14:19
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**8.7**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-014A
Collection Date: 7/28/2015 01:30 PM

Work Order: 15071580
Lab ID: 15071580-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		10	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1221	U		10	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1232	U		10	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1242	U		10	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1248	U		10	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1254	U		13	89	µg/Kg-dry	1	7/29/2015 15:08
Aroclor 1260	**1,100**		**13**	**89**	**µg/Kg-dry**	1	7/29/2015 15:08
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	7/29/2015 15:08
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**10**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-015A
Collection Date: 7/28/2015 01:25 PM

Work Order: 15071580
Lab ID: 15071580-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		10	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1221	U		10	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1232	U		10	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1242	U		10	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1248	U		10	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1254	U		13	88	µg/Kg-dry	1	7/29/2015 15:25
Aroclor 1260	**1,500**		**13**	**88**	**µg/Kg-dry**	1	7/29/2015 15:25
Surr: Decachlorobiphenyl	*77.1*			*40-140*	*%REC*	1	7/29/2015 15:25
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**8.5**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-016A
Collection Date: 7/28/2015 01:20 PM

Work Order: 15071580
Lab ID: 15071580-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		10	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1221	U		10	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1232	U		10	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1242	U		10	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1248	U		10	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1254	U		13	89	µg/Kg-dry	1	7/29/2015 15:41
Aroclor 1260	U		13	89	µg/Kg-dry	1	7/29/2015 15:41
Surr: Decachlorobiphenyl	*76.1*			*40-140*	*%REC*	1	7/29/2015 15:41
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**9.2**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-017A
Collection Date: 7/28/2015 01:30 PM

Work Order: 15071580
Lab ID: 15071580-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		11	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1221	U		11	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1232	U		11	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1242	U		11	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1248	U		11	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1254	U		14	92	µg/Kg-dry	1	7/29/2015 15:57
Aroclor 1260	**810**		**14**	**92**	**µg/Kg-dry**	1	7/29/2015 15:57
Surr: Decachlorobiphenyl	*64.1*			*40-140*	*%REC*	1	7/29/2015 15:57
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**9.9**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-018A
Collection Date: 7/28/2015 01:40 PM

Work Order: 15071580
Lab ID: 15071580-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		9.9	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1221	U		9.9	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1232	U		9.9	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1242	U		9.9	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1248	U		9.9	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1254	U		12	84	µg/Kg-dry	1	7/29/2015 16:14
Aroclor 1260	**5,900**		**120**	**840**	**µg/Kg-dry**	10	7/29/2015 17:19
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	7/29/2015 16:14
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**4.6**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-019A
Collection Date: 7/28/2015 01:50 PM

Work Order: 15071580
Lab ID: 15071580-10
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		9.4	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1221	U		9.4	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1232	U		9.4	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1242	U		9.4	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1248	U		9.4	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1254	U		12	80	µg/Kg-dry	1	7/29/2015 16:30
Aroclor 1260	**480**		**12**	**80**	**µg/Kg-dry**	1	7/29/2015 16:30
Surr: Decachlorobiphenyl	*70.1*			*40-140*	*%REC*	1	7/29/2015 16:30
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**1.7**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-020A
Collection Date: 7/28/2015 01:55 PM

Work Order: 15071580
Lab ID: 15071580-11
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		9.6	81	µg/Kg-dry	1	7/29/2015 16:47
Aroclor 1221	U		9.6	81	µg/Kg-dry	1	7/29/2015 16:47
Aroclor 1232	U		9.6	81	µg/Kg-dry	1	7/29/2015 16:47
Aroclor 1242	U		9.6	81	µg/Kg-dry	1	7/29/2015 16:47
Aroclor 1248	U		9.6	81	µg/Kg-dry	1	7/29/2015 16:47
Aroclor 1254	**1,600**		**12**	**81**	**µg/Kg-dry**	1	7/29/2015 16:47
Aroclor 1260	U		12	81	µg/Kg-dry	1	7/29/2015 16:47
Surr: Decachlorobiphenyl	*66.1*			*40-140*	*%REC*	1	7/29/2015 16:47
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**2.5**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *30-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SD-017360-072815-EB-021A
Collection Date: 7/28/2015 02:00 PM

Work Order: 15071580
Lab ID: 15071580-12
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/29/15		Analyst: **BLM**
Aroclor 1016	U		10	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1221	U		10	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1232	U		10	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1242	U		10	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1248	U		10	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1254	U		13	85	µg/Kg-dry	1	7/29/2015 17:03
Aroclor 1260	**6,000**		**130**	**850**	**µg/Kg-dry**	10	7/29/2015 18:25
Surr: Decachlorobiphenyl	*67.1*			*40-140*	*%REC*	1	7/29/2015 17:03
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**1.8**		**0.025**	**0.050**	**% of sample**	1	7/29/2015 16:03

Note: See Qualifiers page for a list of qualifiers and their definitions.

QC BATCH REPORT

Batch ID: **74140** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-74140-74140** Units: **µg/Kg** Analysis Date: **7/29/2015 12:24 PM**

Client ID: Run ID: **GC14_150729A** SeqNo: **3394333** Prep Date: **7/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*28.67*	0	*33.3*	0	*86.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-74140-74140** Units: **µg/Kg** Analysis Date: **7/29/2015 12:41 PM**

Client ID: Run ID: **GC14_150729A** SeqNo: **3394338** Prep Date: **7/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	918.3	83	833	0	110	50-130	0			
Aroclor 1260	871.7	83	833	0	105	50-130	0			
Surr: Decachlorobiphenyl	*28.67*	0	*33.3*	0	*86.1*	*40-140*	0			

MS Sample ID: **15071580-03A MS** Units: **µg/Kg** Analysis Date: **7/29/2015 01:46 PM**

Client ID: **SD-017360-072815-EB-012A** Run ID: **GC14_150729A** SeqNo: **3394352** Prep Date: **7/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	878.7	80	800	0	110	40-140	0			
Aroclor 1260	784.9	80	800	0	98.1	40-140	0			
Surr: Decachlorobiphenyl	*24.65*	0	*31.98*	0	*77.1*	*40-140*	0			

MSD Sample ID: **15071580-03A MSD** Units: **µg/Kg** Analysis Date: **7/29/2015 02:03 PM**

Client ID: **SD-017360-072815-EB-012A** Run ID: **GC14_150729A** SeqNo: **3394355** Prep Date: **7/29/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	854.6	82	821.7	0	104	40-140	878.7	2.79	50	
Aroclor 1260	750.4	82	821.7	0	91.3	40-140	784.9	4.5	50	
Surr: Decachlorobiphenyl	*24.66*	0	*32.85*	0	*75.1*	*40-140*	24.65	*0.0481*	*50*	

The following samples were analyzed in this batch:

15071580-01A	15071580-02A	15071580-03A
15071580-04A	15071580-05A	15071580-06A
15071580-07A	15071580-08A	15071580-09A
15071580-10A	15071580-11A	15071580-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071580
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R168639** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R168639** Units: **% of sample** Analysis Date: **7/29/2015 04:03 PM**
Client ID: Run ID: **MOIST_150729A** SeqNo: **3394293** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R168639** Units: **% of sample** Analysis Date: **7/29/2015 04:03 PM**
Client ID: Run ID: **MOIST_150729A** SeqNo: **3394289** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15071580-01A DUP** Units: **% of sample** Analysis Date: **7/29/2015 04:03 PM**
Client ID: **SD-017360-072815-EB-010A** Run ID: **MOIST_150729A** SeqNo: **3394250** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	10.69	0.050	0	0	0		10.75	0.56	20	

DUP Sample ID: **15071580-11A DUP** Units: **% of sample** Analysis Date: **7/29/2015 04:03 PM**
Client ID: **SD-017360-072815-EB-020A** Run ID: **MOIST_150729A** SeqNo: **3394280** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	2.22	0.050	0	0	0		2.49	11.5	20	

The following samples were analyzed in this batch:

15071580-01A	15071580-02A	15071580-03A
15071580-04A	15071580-05A	15071580-06A
15071580-07A	15071580-08A	15071580-09A
15071580-10A	15071580-11A	15071580-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

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ALS Environmental

Chain of Custody Form

Page 1 of 2

COC ID: 17775

ALS Project Manager: Chad Whelton | ALS Work Order #: 1507580

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Former GRMP	A	PCBs
Work Order		Project Number	017360-703415-02 415	B	
Company Name	GHD	Bill To Company		C	
Send Report To	Rawa Fleisher, Earl	Invoice Attn		D	
Address	200 W. Michigan Ste 300 Plainwell MI 49080	Address		E	
City/State/Zip		City/State/Zip		F	
Phone	269-685-5181	Phone		G	
Fax		Fax		H	
e-Mail Address	earl.batenburg@ghd.com	e-Mail Address		I	
				J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SD-017360-072815-EB-010A	7/28/15	1300	SD		1	X										
2	-011A		1305			1											
3	-012A		1315			1											
4	-013A		1320			1											
5	-014A		1330			1											
6	-015A		1325			1											
7	-016A		1320			1											
8	-017A		1330			1											
9	-018A		1340			1											
10	-019A		1350			2			MS/MSD								

Sampler(s) Please Print & Sign: Jodie Derbyshire + Earl Batenburg

Shipment Method: drop off

Required Turnaround Time: (Check Box) ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☒ 24 Hour ☐ Other

Results Due Date:

Relinquished by: | Date: 7/28/15 | Time: 1500 | Received by:

Relinquished by: | Date: | Time: | Received by (Laboratory):

Logged by (Laboratory): | Date: 15:20 | Time: | Checked by (Laboratory): | 6.0°C

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
- ☒ Level II Std QC
- ☒ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

COC ID: 17776

ALS Project Manager: | ALS Work Order #: 1507158

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	017360-T03915-02015 Former GRMP	A	PCBs
Work Order		Project Number		B	
Company Name	GHD	Bill To Company	GHD	C	
Send Report To	Rawa Fiebler & Earl	Invoice Attn		D	
Address	200 Alley Bateburg Suite 300	Address		E	
				F	
City/State/Zip	Plainwell, MI 49080	City/State/Zip		G	
Phone	269-685-5181	Phone		H	
Fax		Fax		I	
e-Mail Address	earl.batenburg@ghd.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SD-017360-072815-EB-020A	7/28/15	1355	SD		1	X										
2	-021A	7/28/15	1400	↓		1	X										
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Jodie Denbrock + Earl Batenburg

Shipment Method: drop off

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☒ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	7/28	1600	
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):
MKL	7-29	15:20	

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **28-Jul-15 15:00**

Work Order: **15071580** Received by: **CW**

Checklist completed by Naoma Leonard (eSignature) 28-Jul-15 (Date) Reviewed by: Chad Whelton (eSignature) 28-Jul-15 (Date)

Matrices: SOIL

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☐	No ☑	
Temperature(s)/Thermometer(s):	6.0	sr2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/28/2015 3:23:01 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

03-Aug-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **15071678**

Dear Rawa,

ALS Environmental received 5 samples on 29-Jul-2015 04:45 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 18.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
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ALS Group USA, Corp

Date: 03-Aug-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **15071678**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
15071678-01	SO-017360-072915-EB-022A	Soil		7/29/2015 13:15	7/29/2015 16:45	☐
15071678-02	SO-017360-072915-EB-044	Soil		7/29/2015 15:30	7/29/2015 16:45	☐
15071678-03	SO-017360-072915-EB-045	Soil		7/29/2015 15:45	7/29/2015 16:45	☐
15071678-04	SO-017360-072915-EB-046	Soil		7/29/2015 15:55	7/29/2015 16:45	☐
15071678-05	SO-017360-072915-EB-047	Soil		7/29/2015 16:05	7/29/2015 16:45	☐

ALS Group USA, Corp

Date: 03-Aug-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **15071678**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: *03-Aug-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072915-EB-022A
Collection Date: 7/29/2015 01:15 PM

Work Order: 15071678
Lab ID: 15071678-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/30/15		Analyst: **BLM**
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1254	U		12	83	µg/Kg-dry	1	7/31/2015 04:52
Aroclor 1260	**590**		**12**	**83**	**µg/Kg-dry**	1	7/31/2015 04:52
Surr: Decachlorobiphenyl	*105*			*40-140*	*%REC*	1	7/31/2015 04:52
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**2.5**		**0.025**	**0.050**	**% of sample**	1	7/30/2015 14:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Aug-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072915-EB-044
Collection Date: 7/29/2015 03:30 PM

Work Order: 15071678
Lab ID: 15071678-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 7/30/15		Analyst: **ML**
Chromium	**79**		**0.33**	**2.0**	**mg/Kg-dry**	4	7/31/2015 03:12
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3541 / 7/30/15		Analyst: **RM**
2-Methylnaphthalene	**1,400**		**30**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Acenaphthene	**12,000**		**32**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Acenaphthylene	**270**		**26**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Anthracene	**24,000**		**41**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Benzo(a)anthracene	**53,000**		**510**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Benzo(a)pyrene	**43,000**		**180**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Benzo(b)fluoranthene	**65,000**		**290**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Benzo(g,h,i)perylene	**25,000**		**37**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Benzo(k)fluoranthene	**17,000**		**53**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Chrysene	**58,000**		**710**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Dibenzo(a,h)anthracene	**6,600**		**28**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Fluoranthene	**150,000**		**520**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Fluorene	**13,000**		**47**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Indeno(1,2,3-cd)pyrene	**41,000**		**530**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Naphthalene	**2,200**		**22**	**85**	**µg/Kg-dry**	10	7/31/2015 09:46
Phenanthrene	**120,000**		**470**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Pyrene	**100,000**		**640**	**850**	**µg/Kg-dry**	100	8/3/2015 15:51
Surr: 2-Fluorobiphenyl	*74.6*			*12-100*	*%REC*	10	7/31/2015 09:46
Surr: 4-Terphenyl-d14	*78.4*			*25-137*	*%REC*	10	7/31/2015 09:46
Surr: Nitrobenzene-d5	*73.4*			*37-107*	*%REC*	10	7/31/2015 09:46
CHROMIUM, TRIVALENT		Method: **CALCULATION**					Analyst: **MB**
Chromium, Trivalent	**78**		**0.32**	**0.64**	**mg/Kg-dry**	1	7/31/2015 14:00
CHROMIUM, HEXAVALENT		Method: **SW7196A**			Prep: SW3060A / 7/30/15		Analyst: **MB**
Chromium, Hexavalent	**0.85**	J	**0.15**	**2.4**	**mg/Kg-dry**	1	7/31/2015 12:00
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**22**		**0.025**	**0.050**	**% of sample**	1	7/30/2015 14:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Aug-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072915-EB-045
Collection Date: 7/29/2015 03:45 PM

Work Order: 15071678
Lab ID: 15071678-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 7/30/15		Analyst: **ML**
Chromium	**13**		**0.25**	**1.6**	**mg/Kg-dry**	4	7/31/2015 03:18
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3541 / 7/30/15		Analyst: **RM**
2-Methylnaphthalene	**60**	J	**25**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Acenaphthene	U		27	71	µg/Kg-dry	10	7/31/2015 10:06
Acenaphthylene	U		22	71	µg/Kg-dry	10	7/31/2015 10:06
Anthracene	**99**		**34**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Benzo(a)anthracene	**470**		**43**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Benzo(a)pyrene	**510**		**15**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Benzo(b)fluoranthene	**820**		**24**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Benzo(g,h,i)perylene	**370**		**31**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Benzo(k)fluoranthene	**220**		**44**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Chrysene	**520**		**60**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Dibenzo(a,h)anthracene	**170**		**23**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Fluoranthene	**860**		**43**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Fluorene	U		39	71	µg/Kg-dry	10	7/31/2015 10:06
Indeno(1,2,3-cd)pyrene	**550**		**44**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Naphthalene	**50**	J	**18**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Phenanthrene	**350**		**39**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Pyrene	**630**		**54**	**71**	**µg/Kg-dry**	10	7/31/2015 10:06
Surr: 2-Fluorobiphenyl	*70.2*			*12-100*	*%REC*	10	7/31/2015 10:06
Surr: 4-Terphenyl-d14	*73.2*			*25-137*	*%REC*	10	7/31/2015 10:06
Surr: Nitrobenzene-d5	*62.6*			*37-107*	*%REC*	10	7/31/2015 10:06
CHROMIUM, TRIVALENT		Method: **CALCULATION**					Analyst: **MB**
Chromium, Trivalent	**12**		**0.27**	**0.54**	**mg/Kg-dry**	1	7/31/2015 14:00
CHROMIUM, HEXAVALENT		Method: **SW7196A**			Prep: SW3060A / 7/30/15		Analyst: **MB**
Chromium, Hexavalent	**0.73**	J	**0.13**	**2.1**	**mg/Kg-dry**	1	7/31/2015 12:00
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**7.3**		**0.025**	**0.050**	**% of sample**	1	7/30/2015 14:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Aug-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072915-EB-046
Collection Date: 7/29/2015 03:55 PM

Work Order: 15071678
Lab ID: 15071678-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 7/30/15		Analyst: **ML**
Chromium	**1,200**		**2.8**	**18**	**mg/Kg-dry**	40	7/31/2015 17:45
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3541 / 7/30/15		Analyst: **RM**
2-Methylnaphthalene	**1,100**		**29**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Acenaphthene	**3,600**		**31**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Acenaphthylene	**790**		**25**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Anthracene	**20,000**		**40**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Benzo(a)anthracene	**76,000**		**500**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Benzo(a)pyrene	**65,000**		**170**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Benzo(b)fluoranthene	**94,000**		**280**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Benzo(g,h,i)perylene	**42,000**		**360**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Benzo(k)fluoranthene	**23,000**		**52**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Chrysene	**79,000**		**700**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Dibenzo(a,h)anthracene	**11,000**		**27**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Fluoranthene	**130,000**		**510**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Fluorene	**6,000**		**46**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Indeno(1,2,3-cd)pyrene	**58,000**		**510**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Naphthalene	**1,500**		**21**	**83**	**µg/Kg-dry**	10	7/31/2015 10:25
Phenanthrene	**77,000**		**460**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Pyrene	**100,000**		**620**	**830**	**µg/Kg-dry**	100	8/3/2015 16:11
Surr: 2-Fluorobiphenyl	*78.8*			*12-100*	*%REC*	10	7/31/2015 10:25
Surr: 4-Terphenyl-d14	*84.4*			*25-137*	*%REC*	10	7/31/2015 10:25
Surr: Nitrobenzene-d5	*77.4*			*37-107*	*%REC*	10	7/31/2015 10:25
CHROMIUM, TRIVALENT		Method: **CALCULATION**					Analyst: **JB**
Chromium, Trivalent	**1,200**		**0.32**	**0.62**	**mg/Kg-dry**	1	8/3/2015 10:00
CHROMIUM, HEXAVALENT		Method: **SW7196A**			Prep: SW3060A / 7/30/15		Analyst: **MB**
Chromium, Hexavalent	**2.7**		**0.15**	**2.4**	**mg/Kg-dry**	1	7/31/2015 12:00
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	7/30/2015 14:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *03-Aug-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-072915-EB-047
Collection Date: 7/29/2015 04:05 PM

Work Order: 15071678
Lab ID: 15071678-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS		Method: **SW6020A**			Prep: SW3050B / 7/30/15		Analyst: **ML**
Chromium	**24**		**0.21**	**1.3**	**mg/Kg-dry**	4	7/31/2015 03:29
SEMI-VOLATILE ORGANIC COMPOUNDS		Method: **SW846 8270D**			Prep: SW3541 / 7/30/15		Analyst: **RM**
2-Methylnaphthalene	U		2.4	6.8	µg/Kg-dry	1	7/31/2015 10:45
Acenaphthene	U		2.6	6.8	µg/Kg-dry	1	7/31/2015 10:45
Acenaphthylene	U		2.1	6.8	µg/Kg-dry	1	7/31/2015 10:45
Anthracene	**5.5**	J	**3.3**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Benzo(a)anthracene	**14**		**4.1**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Benzo(a)pyrene	**23**		**1.4**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Benzo(b)fluoranthene	**30**		**2.3**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Benzo(g,h,i)perylene	**50**		**3.0**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Benzo(k)fluoranthene	**12**		**4.3**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Chrysene	**15**		**5.8**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Dibenzo(a,h)anthracene	**11**		**2.2**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Fluoranthene	**22**		**4.2**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Fluorene	U		3.8	6.8	µg/Kg-dry	1	7/31/2015 10:45
Indeno(1,2,3-cd)pyrene	**36**		**4.3**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Naphthalene	U		1.8	6.8	µg/Kg-dry	1	7/31/2015 10:45
Phenanthrene	**12**		**3.8**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Pyrene	**17**		**5.2**	**6.8**	**µg/Kg-dry**	1	7/31/2015 10:45
Surr: 2-Fluorobiphenyl	*67.0*			*12-100*	*%REC*	1	7/31/2015 10:45
Surr: 4-Terphenyl-d14	*78.5*			*25-137*	*%REC*	1	7/31/2015 10:45
Surr: Nitrobenzene-d5	*72.7*			*37-107*	*%REC*	1	7/31/2015 10:45
CHROMIUM, TRIVALENT		Method: **CALCULATION**					Analyst: **MB**
Chromium, Trivalent	**24**		**0.26**	**0.52**	**mg/Kg-dry**	1	7/31/2015 14:00
CHROMIUM, HEXAVALENT		Method: **SW7196A**			Prep: SW3060A / 7/30/15		Analyst: **MB**
Chromium, Hexavalent	**0.83**	J	**0.12**	**2.0**	**mg/Kg-dry**	1	7/31/2015 12:00
MOISTURE		Method: **E160.3M**					Analyst: **EVB**
Moisture	**3.5**		**0.025**	**0.050**	**% of sample**	1	7/30/2015 14:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **74198** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-74198-74198** Units: **µg/Kg** Analysis Date: **7/30/2015 11:07 AM**

Client ID: Run ID: **GC14_150730A** SeqNo: **3398315** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*31.33*	0	*33.3*	0	*94.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-74198-74198** Units: **µg/Kg** Analysis Date: **7/30/2015 11:23 AM**

Client ID: Run ID: **GC14_150730A** SeqNo: **3398316** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1017	83	833	0	122	50-130	0			
Aroclor 1260	939	83	833	0	113	50-130	0			
Surr: Decachlorobiphenyl	*32.67*	0	*33.3*	0	*98.1*	*40-140*	0			

MS Sample ID: **15071618-15A MS** Units: **µg/Kg** Analysis Date: **7/30/2015 07:52 PM**

Client ID: Run ID: **GC14_150730A** SeqNo: **3398358** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1281	83	831.2	0	154	40-140	0			S
Aroclor 1260	1316	83	831.2	0	158	40-140	0			S
Surr: Decachlorobiphenyl	*30.27*	0	*33.23*	0	*91.1*	*40-140*	0			

MSD Sample ID: **15071618-15A MSD** Units: **µg/Kg** Analysis Date: **7/30/2015 08:09 PM**

Client ID: Run ID: **GC14_150730A** SeqNo: **3398359** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	1448	83	829.2	0	175	40-140	1281	12.3	50	S
Aroclor 1260	1314	83	829.2	0	158	40-140	1316	0.163	50	S
Surr: Decachlorobiphenyl	*59.06*	0	*66.39*	0	*89*	*40-140*	30.27	*64.5*	*50*	*R*

The following samples were analyzed in this batch: 15071678-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071678
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **74228** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-74228-74228** Units: **mg/Kg** Analysis Date: **7/31/2015 12:03 AM**
Client ID: Run ID: **ICPMS1_150730B** SeqNo: **3396951** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	U	0.25								

LCS Sample ID: **LCS-74228-74228** Units: **mg/Kg** Analysis Date: **7/31/2015 12:09 AM**
Client ID: Run ID: **ICPMS1_150730B** SeqNo: **3396953** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	5	0.25	5	0	100	80-120	0			

MS Sample ID: **15071632-01AMS** Units: **mg/Kg** Analysis Date: **7/31/2015 01:46 AM**
Client ID: Run ID: **ICPMS1_150730B** SeqNo: **3396972** Prep Date: **7/30/2015** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	10.73	1.5	7.31	1.733	123	75-125	0			

MSD Sample ID: **15071632-01AMSD** Units: **mg/Kg** Analysis Date: **7/31/2015 01:52 AM**
Client ID: Run ID: **ICPMS1_150730B** SeqNo: **3396973** Prep Date: **7/30/2015** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium	11.04	1.5	7.31	1.733	127	75-125	10.73	2.79	25	S

The following samples were analyzed in this batch:

15071678-02A	15071678-03A	15071678-04A
15071678-05A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-74209-74209** Units: **µg/Kg** Analysis Date: **7/30/2015 07:32 PM**
Client ID: Run ID: **SVMS5_150730A** SeqNo: **3397692** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	U	6.7								
Acenaphthene	U	6.7								
Acenaphthylene	U	6.7								
Anthracene	U	6.7								
Benzo(a)anthracene	U	6.7								
Benzo(a)pyrene	U	6.7								
Benzo(b)fluoranthene	U	6.7								
Benzo(g,h,i)perylene	U	6.7								
Benzo(k)fluoranthene	U	6.7								
Chrysene	U	6.7								
Dibenzo(a,h)anthracene	U	6.7								
Fluoranthene	U	6.7								
Fluorene	U	6.7								
Indeno(1,2,3-cd)pyrene	U	6.7								
Naphthalene	U	6.7								
Phenanthrene	U	6.7								
Pyrene	U	6.7								
Surr: 2-Fluorobiphenyl	*1062*	0	*1667*	0	*63.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1644*	0	*1667*	0	*98.6*	*25-137*	0			
Surr: Nitrobenzene-d5	*1047*	0	*1667*	0	*62.8*	*37-107*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-74209-74209** Units: **µg/Kg** Analysis Date: **7/31/2015 04:06 PM**

Client ID: Run ID: **SVMS5_150730A** SeqNo: **3398574** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	579.3	6.7	666.7	0	86.9	45-105	0			
Acenaphthene	623	6.7	666.7	0	93.4	45-110	0			
Acenaphthylene	604	6.7	666.7	0	90.6	45-105	0			
Anthracene	694	6.7	666.7	0	104	55-105	0			
Benzo(a)anthracene	678.3	6.7	666.7	0	102	50-110	0			
Benzo(a)pyrene	664.7	6.7	666.7	0	99.7	50-110	0			
Benzo(b)fluoranthene	665.3	6.7	666.7	0	99.8	45-115	0			
Benzo(g,h,i)perylene	637.3	6.7	666.7	0	95.6	40-125	0			
Benzo(k)fluoranthene	671.3	6.7	666.7	0	101	45-115	0			
Chrysene	693	6.7	666.7	0	104	55-110	0			
Dibenzo(a,h)anthracene	610.3	6.7	666.7	0	91.5	40-125	0			
Fluoranthene	650	6.7	666.7	0	97.5	55-115	0			
Fluorene	642.3	6.7	666.7	0	96.3	50-110	0			
Indeno(1,2,3-cd)pyrene	655.3	6.7	666.7	0	98.3	40-120	0			
Naphthalene	597.3	6.7	666.7	0	89.6	40-105	0			
Phenanthrene	629.3	6.7	666.7	0	94.4	50-110	0			
Pyrene	695.7	6.7	666.7	0	104	45-125	0			
Surr: 2-Fluorobiphenyl	*1328*	0	*1667*	0	*79.7*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1485*	0	*1667*	0	*89.1*	*25-137*	0			
Surr: Nitrobenzene-d5	*1455*	0	*1667*	0	*87.3*	*37-107*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

MS Sample ID: **15071535-01B MS** Units: **µg/Kg** Analysis Date: **7/30/2015 11:07 PM**

Client ID: Run ID: **SVMS5_150730A** SeqNo: **3397920** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	592.7	6.6	663.7	5.331	88.5	45-105	0			
Acenaphthene	638.1	6.6	663.7	0	96.1	45-110	0			
Acenaphthylene	635.8	6.6	663.7	0	95.8	45-105	0			
Anthracene	763.6	6.6	663.7	4.665	114	55-105	0			S
Benzo(a)anthracene	734.1	6.6	663.7	26.99	107	50-110	0			
Benzo(a)pyrene	722.8	6.6	663.7	42.32	103	50-110	0			
Benzo(b)fluoranthene	741	6.6	663.7	25.66	108	45-115	0			
Benzo(g,h,i)perylene	656.4	6.6	663.7	31.99	94.1	40-125	0			
Benzo(k)fluoranthene	695.2	6.6	663.7	14.99	102	45-115	0			
Chrysene	767.9	6.6	663.7	17.99	113	55-110	0			S
Dibenzo(a,h)anthracene	620.2	6.6	663.7	30.32	88.9	40-125	0			
Fluoranthene	712.2	6.6	663.7	42.32	101	55-115	0			
Fluorene	670.3	6.6	663.7	0	101	50-110	0			
Indeno(1,2,3-cd)pyrene	709.5	6.6	663.7	57.31	98.3	40-120	0			
Naphthalene	596	6.6	663.7	0	89.8	40-105	0			
Phenanthrene	697.9	6.6	663.7	18.66	102	50-110	0			
Pyrene	782.8	6.6	663.7	35.65	113	45-125	0			
Surr: 2-Fluorobiphenyl	*1392*	0	*1659*	0	*83.9*	*12-100*	0			
Surr: 4-Terphenyl-d14	*1696*	0	*1659*	0	*102*	*25-137*	0			
Surr: Nitrobenzene-d5	*1502*	0	*1659*	0	*90.5*	*37-107*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071678
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **74209** Instrument ID **SVMS5** Method: **SW846 8270D**

MSD Sample ID: **15071535-01B MSD** Units: **µg/Kg** Analysis Date: **7/30/2015 11:30 PM**
Client ID: Run ID: **SVMS5_150730A** SeqNo: **3397698** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Methylnaphthalene	623.7	6.7	666.3	5.331	92.8	45-105	592.7	5.09	30	
Acenaphthene	662.3	6.7	666.3	0	99.4	45-110	638.1	3.72	30	
Acenaphthylene	654.7	6.7	666.3	0	98.2	45-105	635.8	2.92	30	
Anthracene	781.2	6.7	666.3	4.665	117	55-105	763.6	2.29	30	S
Benzo(a)anthracene	770.6	6.7	666.3	26.99	112	50-110	734.1	4.86	30	S
Benzo(a)pyrene	772.3	6.7	666.3	42.32	110	50-110	722.8	6.62	30	
Benzo(b)fluoranthene	767.9	6.7	666.3	25.66	111	45-115	741	3.57	30	
Benzo(g,h,i)perylene	729.3	6.7	666.3	31.99	105	40-125	656.4	10.5	30	
Benzo(k)fluoranthene	744.6	6.7	666.3	14.99	109	45-115	695.2	6.86	30	
Chrysene	783.9	6.7	666.3	17.99	115	55-110	767.9	2.06	30	S
Dibenzo(a,h)anthracene	692.6	6.7	666.3	30.32	99.4	40-125	620.2	11	30	
Fluoranthene	738.3	6.7	666.3	42.32	104	55-115	712.2	3.6	30	
Fluorene	715.6	6.7	666.3	0	107	50-110	670.3	6.53	30	
Indeno(1,2,3-cd)pyrene	790.9	6.7	666.3	57.31	110	40-120	709.5	10.9	30	
Naphthalene	669.3	6.7	666.3	0	100	40-105	596	11.6	30	
Phenanthrene	696	6.7	666.3	18.66	102	50-110	697.9	0.276	30	
Pyrene	835.9	6.7	666.3	35.65	120	45-125	782.8	6.55	30	
Surr: 2-Fluorobiphenyl	*1468*	0	*1666*	0	*88.1*	*12-100*	1392	*5.32*	*40*	
Surr: 4-Terphenyl-d14	*1807*	0	*1666*	0	*108*	*25-137*	1696	*6.35*	*40*	
Surr: Nitrobenzene-d5	*1622*	0	*1666*	0	*97.4*	*37-107*	1502	*7.65*	*40*	

The following samples were analyzed in this batch: 15071678-02A, 15071678-03A, 15071678-04A, 15071678-05A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071678
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **74289** Instrument ID **WETCHEM** Method: **SW7196A**

MBLK Sample ID: **MBLK-74289-74289** Units: **mg/Kg** Analysis Date: **7/31/2015 12:00 PM**
Client ID: Run ID: **WETCHEM_150731D** SeqNo: **3397887** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	U	1.0								

LCS Sample ID: **LCS-74289-74289** Units: **mg/Kg** Analysis Date: **7/31/2015 12:00 PM**
Client ID: Run ID: **WETCHEM_150731D** SeqNo: **3397888** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	4.68	1.0	5	0	93.6	80-120	0			

MS Sample ID: **15071678-05A MS** Units: **mg/Kg** Analysis Date: **7/31/2015 12:00 PM**
Client ID: **SO-017360-072915-EB-047** Run ID: **WETCHEM_150731D** SeqNo: **3397894** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	5.098	0.98	4.902	0.8	87.7	75-125	0			

MS Sample ID: **15071678-05A MSI** Units: **mg/Kg** Analysis Date: **7/31/2015 12:00 PM**
Client ID: **SO-017360-072915-EB-047** Run ID: **WETCHEM_150731D** SeqNo: **3397896** Prep Date: **7/30/2015** DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	3474	99	3361	0.8	103	75-125	0			

MSD Sample ID: **15071678-05A MSD** Units: **mg/Kg** Analysis Date: **7/31/2015 12:00 PM**
Client ID: **SO-017360-072915-EB-047** Run ID: **WETCHEM_150731D** SeqNo: **3397895** Prep Date: **7/30/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chromium, Hexavalent	5.277	0.99	4.95	0.8	90.4	75-125	5.098	3.45	20	

The following samples were analyzed in this batch:

15071678-02A	15071678-03A	15071678-04A
15071678-05A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 15071678
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R168750** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R168750** Units: **% of sample** Analysis Date: **7/30/2015 02:05 PM**
Client ID: Run ID: **MOIST_150730A** SeqNo: **3396799** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R168750** Units: **% of sample** Analysis Date: **7/30/2015 02:05 PM**
Client ID: Run ID: **MOIST_150730A** SeqNo: **3396796** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	99.99	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **15071451-01C DUP** Units: **% of sample** Analysis Date: **7/30/2015 02:05 PM**
Client ID: Run ID: **MOIST_150730A** SeqNo: **3396778** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	22.86	0.050	0	0	0		22.15	3.15	20	

DUP Sample ID: **15071686-01A DUP** Units: **% of sample** Analysis Date: **7/30/2015 02:05 PM**
Client ID: Run ID: **MOIST_150730A** SeqNo: **3396792** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	16.35	0.050	0	0	0		16.35	0	20	

The following samples were analyzed in this batch:

15071678-01A	15071678-02A	15071678-03A
15071678-04A	15071678-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 1

COC ID: 17778

ALS Project Manager: Chad Whitton | ALS Work Order #: 1507128

Customer Information

Purchase Order	
Work Order	
Company Name	GHD
Send Report To	Earl Easterday / Teri Quigley
Address	200 W Douglas Ste 300
City/State/Zip	Plainwell, MI 49080
Phone	269.685 5181
Fax	
e-Mail Address	earl.easterday@ghd.com

Project Information

Project Name	Former GRMP RACER
Project Number	017760-T03915-02415
Bill To Company	
Invoice Attn	Same
Address	
City/State/Zip	
Phone	
Fax	
e-Mail Address	

Parameter/Method Request for Analysis

A: PCBs
B: PAHs
C: Speciated Chromium - III / VI
D:
E:
F:
G:
H:
I:
J:

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SO-017760-073915-EB-022A	7/29/15	1315	SO	none	1	X										
2	-044		1530				X	X									
3	-045		1545				X	X									
4	-046		1555				X	X									
5	-047		1605				X	X									
6																	
7			ETS 7-29-15														
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Earl Easterday

Shipment Method: drop @ lab

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☒ 24 Hour

Results Due Date:

Relinquished by:	Date: 7/29/15	Time: 1645	Received by: Donna Leonard
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory): KLW	Date: 7/29/15	Time: 1650	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **29-Jul-15 16:45**

Work Order: **15071678** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 29-Jul-15 (Date) Reviewed by: Chad Whelton (eSignature) 30-Jul-15 (Date)

Matrices: Soil

Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.4 C	Sr2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/29/2015 4:53:21 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

15-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360-99)** Work Order: **1507748**

Dear Rawa,

ALS Environmental received 9 samples on 14-Jul-2015 01:20 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 16.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

Report of Laboratory Analysis

ALS Group USA, Corp

Date: 15-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Work Order: **1507748**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1507748-01	S0-017360-071415-EB-001	Soil		7/14/2015 10:20	7/14/2015 13:20	☐
1507748-02	S0-017360-071415-EB-002	Soil		7/14/2015 10:30	7/14/2015 13:20	☐
1507748-03	S0-017360-071415-EB-003	Soil		7/14/2015 10:35	7/14/2015 13:20	☐
1507748-04	S0-017360-071415-EB-004	Soil		7/14/2015 10:40	7/14/2015 13:20	☐
1507748-05	S0-017360-071415-EB-005	Soil		7/14/2015 10:50	7/14/2015 13:20	☐
1507748-06	S0-017360-071415-EB-006	Soil		7/14/2015 10:55	7/14/2015 13:20	☐
1507748-07	S0-017360-071415-EB-007	Soil		7/14/2015 10:58	7/14/2015 13:20	☐
1507748-08	S0-017360-071415-EB-008	Soil		7/14/2015 11:05	7/14/2015 13:20	☐
1507748-09	S0-017360-071415-EB-009	Soil		7/14/2015 11:20	7/14/2015 13:20	☐

ALS Group USA, Corp

Date: 15-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
WorkOrder: **1507748**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-001
Collection Date: 7/14/2015 10:20 AM

Work Order: 1507748
Lab ID: 1507748-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.7	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1221	U		9.7	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1232	U		9.7	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1242	U		9.7	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1248	U		9.7	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1254	U		12	82	µg/Kg-dry	1	7/15/2015 11:25
Aroclor 1260	**24**	J	**12**	**82**	**µg/Kg-dry**	1	7/15/2015 11:25
Surr: Decachlorobiphenyl	*85.1*			*40-140*	*%REC*	1	7/15/2015 11:25
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**4.1**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-002
Collection Date: 7/14/2015 10:30 AM

Work Order: 1507748
Lab ID: 1507748-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		11	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1221	U		11	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1232	U		11	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1242	U		11	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1248	U		11	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1254	U		14	94	µg/Kg-dry	1	7/15/2015 12:14
Aroclor 1260	**50**	J	**14**	**94**	**µg/Kg-dry**	1	7/15/2015 12:14
Surr: Decachlorobiphenyl	*78.1*			*40-140*	*%REC*	1	7/15/2015 12:14
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**12**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-003
Collection Date: 7/14/2015 10:35 AM

Work Order: 1507748
Lab ID: 1507748-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1254	U		12	83	µg/Kg-dry	1	7/15/2015 12:30
Aroclor 1260	**170**		**12**	**83**	**µg/Kg-dry**	1	7/15/2015 12:30
Surr: Decachlorobiphenyl	*88.1*			*40-140*	*%REC*	1	7/15/2015 12:30
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**2.4**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-004
Collection Date: 7/14/2015 10:40 AM

Work Order: 1507748
Lab ID: 1507748-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.9	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1221	U		9.9	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1232	U		9.9	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1242	U		9.9	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1248	U		9.9	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1254	U		12	84	µg/Kg-dry	1	7/15/2015 13:19
Aroclor 1260	**350**		**12**	**84**	**µg/Kg-dry**	1	7/15/2015 13:19
Surr: Decachlorobiphenyl	*88.1*			*40-140*	*%REC*	1	7/15/2015 13:19
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**5.8**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-005
Collection Date: 7/14/2015 10:50 AM

Work Order: 1507748
Lab ID: 1507748-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1254	U		12	83	µg/Kg-dry	1	7/15/2015 13:36
Aroclor 1260	**340**		**12**	**83**	**µg/Kg-dry**	1	7/15/2015 13:36
Surr: Decachlorobiphenyl	*97.1*			*40-140*	*%REC*	1	7/15/2015 13:36
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**5.5**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-006
Collection Date: 7/14/2015 10:55 AM

Work Order: 1507748
Lab ID: 1507748-06
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		10	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1221	U		10	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1232	U		10	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1242	U		10	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1248	U		10	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1254	U		13	85	µg/Kg-dry	1	7/15/2015 13:52
Aroclor 1260	U		13	85	µg/Kg-dry	1	7/15/2015 13:52
Surr: Decachlorobiphenyl	*93.1*			*40-140*	*%REC*	1	7/15/2015 13:52
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**2.7**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-007
Collection Date: 7/14/2015 10:58 AM

Work Order: 1507748
Lab ID: 1507748-07
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1254	U		12	83	µg/Kg-dry	1	7/15/2015 14:08
Aroclor 1260	**21**	J	**12**	**83**	**µg/Kg-dry**	1	7/15/2015 14:08
Surr: Decachlorobiphenyl	*98.1*			*40-140*	*%REC*	1	7/15/2015 14:08
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**5.4**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-008
Collection Date: 7/14/2015 11:05 AM

Work Order: 1507748
Lab ID: 1507748-08
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1221	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1232	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1242	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1248	U		9.8	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1254	U		12	83	µg/Kg-dry	1	7/15/2015 14:26
Aroclor 1260	U		12	83	µg/Kg-dry	1	7/15/2015 14:26
Surr: Decachlorobiphenyl	*98.1*			*40-140*	*%REC*	1	7/15/2015 14:26
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**2.8**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *15-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360-99)
Sample ID: S0-017360-071415-EB-009
Collection Date: 7/14/2015 11:20 AM

Work Order: 1507748
Lab ID: 1507748-09
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3550 / 7/15/15		Analyst: **BLM**
Aroclor 1016	U		9.8	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1221	U		9.8	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1232	U		9.8	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1242	U		9.8	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1248	U		9.8	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1254	U		12	84	µg/Kg-dry	1	7/15/2015 14:42
Aroclor 1260	U		12	84	µg/Kg-dry	1	7/15/2015 14:42
Surr: Decachlorobiphenyl	*95.1*			*40-140*	*%REC*	1	7/15/2015 14:42
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**3.0**		**0.025**	**0.050**	**% of sample**	1	7/14/2015 17:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 15-Jul-15

Client: GHD Services Inc.

QC BATCH REPORT

Work Order: 1507748

Project: Former GRMP (17360-99)

Batch ID: **73547** Instrument ID **GC14** Method: **SW8082**

MBLK Sample ID: **PBLKS1-73547-73547** Units: **µg/Kg** Analysis Date: **7/15/2015 10:52 AM**

Client ID: Run ID: **GC14_150715A** SeqNo: **3371662** Prep Date: **7/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*32*	0	*33.3*	0	*96.1*	*40-140*	0			

LCS Sample ID: **PLCSS1-73547-73547** Units: **µg/Kg** Analysis Date: **7/15/2015 11:09 AM**

Client ID: Run ID: **GC14_150715A** SeqNo: **3371663** Prep Date: **7/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	738.7	83	833	0	88.7	50-130	0			
Aroclor 1260	810	83	833	0	97.2	50-130	0			
Surr: Decachlorobiphenyl	*32.67*	0	*33.3*	0	*98.1*	*40-140*	0			

MS Sample ID: **1507748-01A MS** Units: **µg/Kg** Analysis Date: **7/15/2015 11:41 AM**

Client ID: **S0-017360-071415-EB-001** Run ID: **GC14_150715A** SeqNo: **3371665** Prep Date: **7/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	749.1	82	822.5	0	91.1	40-140	0			
Aroclor 1260	808.6	82	822.5	22.75	95.6	40-140	0			
Surr: Decachlorobiphenyl	*26.33*	0	*32.88*	0	*80.1*	*40-140*	0			

MSD Sample ID: **1507748-01A MSD** Units: **µg/Kg** Analysis Date: **7/15/2015 11:57 AM**

Client ID: **S0-017360-071415-EB-001** Run ID: **GC14_150715A** SeqNo: **3371666** Prep Date: **7/15/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	684.7	79	786.3	0	87.1	40-140	749.1	8.99	50	
Aroclor 1260	840.4	79	786.3	22.75	104	40-140	808.6	3.85	50	
Surr: Decachlorobiphenyl	*25.8*	0	*31.43*	0	*82.1*	*40-140*	26.33	*2.03*	*50*	

The following samples were analyzed in this batch:

1507748-01A	1507748-02A	1507748-03A
1507748-04A	1507748-05A	1507748-06A
1507748-07A	1507748-08A	1507748-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1507748
Project: Former GRMP (17360-99)

QC BATCH REPORT

Batch ID: **R167632** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R167632** Units: **% of sample** Analysis Date: **7/14/2015 05:55 PM**
Client ID: Run ID: **MOIST_150714E** SeqNo: **3371095** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R167632** Units: **% of sample** Analysis Date: **7/14/2015 05:55 PM**
Client ID: Run ID: **MOIST_150714E** SeqNo: **3371094** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1507748-01A DUP** Units: **% of sample** Analysis Date: **7/14/2015 05:55 PM**
Client ID: **S0-017360-071415-EB-001** Run ID: **MOIST_150714E** SeqNo: **3371073** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	4.35	0.050	0	0	0		4.12	5.43	20	

DUP Sample ID: **1507749-05A DUP** Units: **% of sample** Analysis Date: **7/14/2015 05:55 PM**
Client ID: Run ID: **MOIST_150714E** SeqNo: **3371093** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	3.71	0.050	0	0	0		4.11	10.2	20	

The following samples were analyzed in this batch:

1507748-01A	1507748-02A	1507748-03A
1507748-04A	1507748-05A	1507748-06A
1507748-07A	1507748-08A	1507748-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

CHAIN OF CUSTODY RECORD

COC NO.: PL- 11900

PAGE 1 OF 1

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

(See Reverse Side for Instructions)

Project No/ Phase/Task Code: 017360-99	Laboratory Name:	Lab Location:	SSOW ID:
Project Name:	Lab Contact:	Lab Quote No:	Cooler No:
Project Location:			Carrier:
Chemistry Contact:			Airbill No:
Sampler(s):			Date Shipped:

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp (C)	Container Quantity & Preservation: Unpreserved	HCl	HNO3	H2SO4	NaOH	MeOH/Water (SoHT) VOC	EnCores 3x5g (1x25g)	Other:	Total Containers/Sample	Analysis Requested (See Back of COC for Definitions):	MS/MSD Required	Comments/ Special Instructions:
1	SO-017360-07141S-[illegible]-00	7/14/15	1020	SO	G	2								2			
2	-002		1030											1			
3	-003		1035														
4	-004		1040														
5	-005		1050														
6	-006		1055														
7	-007		1058														
8	-008		1105														
9	-009		1120														
10																	
11																	
12																	
13																	
14																	
15																	

TAT Required in business days (use separate COCs for different TATs):
☑ 1 Day ☐ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other

Total Number of Containers: 12

All Samples In Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	CRA	7-14-15	1320	1.	ACS	7/14/15	1320
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (20110804)

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **14-Jul-15 13:20**

Work Order: **1507748** Received by: **NML**

Checklist completed by Naoma Leonard 14-Jul-15 Reviewed by: Chad Whelton 15-Jul-15
eSignature Date eSignature Date

Matrices: soil
Carrier name: Client

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0 C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/14/2015 3:15:01 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

17-Jul-2015

Rawa Fleisher
GHD Services Inc.
14496 Sheldon Road
Suite 200
Plymouth, MI 48170

Re: **Former GRMP (17360)** Work Order: **1507801**

Dear Rawa,

ALS Environmental received 5 samples on 15-Jul-2015 09:30 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 12.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Chad Whelton

Electronically approved by: Chad Whelton

Chad Whelton
Project Manager

Certificate No: MN 532786

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental www.alsglobal.com
RIGHT SOLUTIONS RIGHT PARTNER

ALS Group USA, Corp

Date: 17-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
Work Order: **1507801**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1507801-01	SO-017360-071415-EB-023	Soil		7/14/2015 15:10	7/15/2015 09:30	☐
1507801-02	SO-017360-071415-EB-024	Soil		7/14/2015 15:30	7/15/2015 09:30	☐
1507801-03	SO-017360-071415-EB-025	Soil		7/14/2015 15:45	7/15/2015 09:30	☐
1507801-04	SO-017360-071415-EB-026	Soil		7/14/2015 16:00	7/15/2015 09:30	☐
1507801-05	SO-017360-071415-EB-027	Soil		7/14/2015 16:05	7/15/2015 09:30	☐

ALS Group USA, Corp

Date: 17-Jul-15

Client: GHD Services Inc.
Project: Former GRMP (17360)
WorkOrder: **1507801**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight

ALS Group USA, Corp

Date: *17-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-071415-EB-023
Collection Date: 7/14/2015 03:10 PM

Work Order: 1507801
Lab ID: 1507801-01
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/16/15		Analyst: **BLM**
Aroclor 1016	U		11	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1221	U		11	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1232	U		11	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1242	U		11	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1248	U		11	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1254	U		13	89	µg/Kg-dry	1	7/16/2015 20:17
Aroclor 1260	U		13	89	µg/Kg-dry	1	7/16/2015 20:17
Surr: Decachlorobiphenyl	*86.1*			*40-140*	*%REC*	1	7/16/2015 20:17
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**8.2**		**0.025**	**0.050**	**% of sample**	1	7/15/2015 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-071415-EB-024
Collection Date: 7/14/2015 03:30 PM

Work Order: 1507801
Lab ID: 1507801-02
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/16/15		Analyst: **BLM**
Aroclor 1016	U		10	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1221	U		10	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1232	U		10	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1242	U		10	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1248	U		10	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1254	U		13	89	µg/Kg-dry	1	7/16/2015 21:05
Aroclor 1260	**2,000**		**13**	**89**	**µg/Kg-dry**	1	7/16/2015 21:05
Surr: Decachlorobiphenyl	*82.1*			*40-140*	*%REC*	1	7/16/2015 21:05
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**9.7**		**0.025**	**0.050**	**% of sample**	1	7/15/2015 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-071415-EB-025
Collection Date: 7/14/2015 03:45 PM

Work Order: 1507801
Lab ID: 1507801-03
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/16/15		Analyst: **BLM**
Aroclor 1016	U		12	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1221	U		12	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1232	U		12	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1242	U		12	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1248	U		12	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1254	U		15	100	µg/Kg-dry	1	7/16/2015 21:22
Aroclor 1260	U		15	100	µg/Kg-dry	1	7/16/2015 21:22
Surr: Decachlorobiphenyl	*75.1*			*40-140*	*%REC*	1	7/16/2015 21:22
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**19**		**0.025**	**0.050**	**% of sample**	1	7/15/2015 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-071415-EB-026
Collection Date: 7/14/2015 04:00 PM

Work Order: 1507801
Lab ID: 1507801-04
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/16/15		Analyst: **BLM**
Aroclor 1016	U		11	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1221	U		11	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1232	U		11	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1242	U		11	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1248	U		11	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1254	U		14	94	µg/Kg-dry	1	7/16/2015 21:38
Aroclor 1260	**160**		**14**	**94**	**µg/Kg-dry**	1	7/16/2015 21:38
Surr: Decachlorobiphenyl	*86.1*			*40-140*	*%REC*	1	7/16/2015 21:38
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**14**		**0.025**	**0.050**	**% of sample**	1	7/15/2015 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *17-Jul-15*

Client: GHD Services Inc.
Project: Former GRMP (17360)
Sample ID: SO-017360-071415-EB-027
Collection Date: 7/14/2015 04:05 PM

Work Order: 1507801
Lab ID: 1507801-05
Matrix: SOIL

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
PCBS		Method: **SW8082**			Prep: SW3541 / 7/16/15		Analyst: **BLM**
Aroclor 1016	U		12	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1221	U		12	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1232	U		12	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1242	U		12	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1248	U		12	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1254	U		15	99	µg/Kg-dry	1	7/16/2015 21:55
Aroclor 1260	U		15	99	µg/Kg-dry	1	7/16/2015 21:55
Surr: Decachlorobiphenyl	*81.1*			*40-140*	*%REC*	1	7/16/2015 21:55
MOISTURE		Method: **E160.3M**					Analyst: **PT**
Moisture	**17**		**0.025**	**0.050**	**% of sample**	1	7/15/2015 17:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 17-Jul-15

Client: GHD Services Inc.

Work Order: 1507801

Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **73588** Instrument ID **GC14** Method: **SW8082**

MBLK	Sample ID: **PBLKS1-73588-73588**			Units: **µg/Kg**			Analysis Date: **7/16/2015 05:49 PM**			
Client ID:	Run ID: **GC14_150716A**			SeqNo: **3375042**		Prep Date: **7/16/2015**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	U	83								
Aroclor 1221	U	83								
Aroclor 1232	U	83								
Aroclor 1242	U	83								
Aroclor 1248	U	83								
Aroclor 1254	U	83								
Aroclor 1260	U	83								
Surr: Decachlorobiphenyl	*36.67*	0	*33.3*	0	*110*	*40-140*	0			

LCS	Sample ID: **PLCSS1-73588-73588**			Units: **µg/Kg**			Analysis Date: **7/16/2015 06:06 PM**			
Client ID:	Run ID: **GC14_150716A**			SeqNo: **3375043**		Prep Date: **7/16/2015**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	788	83	833	0	94.6	50-130	0			
Aroclor 1260	957.7	83	833	0	115	50-130	0			
Surr: Decachlorobiphenyl	*36.67*	0	*33.3*	0	*110*	*40-140*	0			

MS	Sample ID: **1507801-01A MS**			Units: **µg/Kg**			Analysis Date: **7/16/2015 08:33 PM**			
Client ID: **SO-017360-071415-EB-023**	Run ID: **GC14_150716A**			SeqNo: **3375050**		Prep Date: **7/16/2015**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	849.5	83	829.3	0	102	40-140	0			
Aroclor 1260	851.9	83	829.3	0	103	40-140	0			
Surr: Decachlorobiphenyl	*29.87*	0	*33.15*	0	*90.1*	*40-140*	0			

MSD	Sample ID: **1507801-01A MSD**			Units: **µg/Kg**			Analysis Date: **7/16/2015 08:49 PM**			
Client ID: **SO-017360-071415-EB-023**	Run ID: **GC14_150716A**			SeqNo: **3375051**		Prep Date: **7/16/2015**		DF: **1**		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aroclor 1016	877.4	82	817.5	0	107	40-140	849.5	3.23	50	
Aroclor 1260	862.7	82	817.5	0	106	40-140	851.9	1.26	50	
Surr: Decachlorobiphenyl	*29.44*	0	*32.68*	0	*90.1*	*40-140*	29.87	*1.43*	*50*	

The following samples were analyzed in this batch:

1507801-01A	1507801-02A	1507801-03A
1507801-04A	1507801-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: GHD Services Inc.
Work Order: 1507801
Project: Former GRMP (17360)

QC BATCH REPORT

Batch ID: **R167709** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R167709** Units: **% of sample** Analysis Date: **7/15/2015 05:05 PM**
Client ID: Run ID: **MOIST_150715D** SeqNo: **3372591** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	U	0.050								

LCS Sample ID: **LCS-R167709** Units: **% of sample** Analysis Date: **7/15/2015 05:05 PM**
Client ID: Run ID: **MOIST_150715D** SeqNo: **3372590** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1507787-01A DUP** Units: **% of sample** Analysis Date: **7/15/2015 05:05 PM**
Client ID: Run ID: **MOIST_150715D** SeqNo: **3372572** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	7.69	0.050	0	0	0		7.85	2.06	20	

DUP Sample ID: **1507801-01A DUP** Units: **% of sample** Analysis Date: **7/15/2015 05:05 PM**
Client ID: **SO-017360-071415-EB-023** Run ID: **MOIST_150715D** SeqNo: **3372579** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	8.1	0.050	0	0	0		8.17	0.86	20	

The following samples were analyzed in this batch:

1507801-01A	1507801-02A	1507801-03A
1507801-04A	1507801-05A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

CHAIN OF CUSTODY RECORD

COC NO.: PL- 12357

PAGE 1 OF 1

CONESTOGA-ROVERS & ASSOCIATES
14496 Sheldon Road, Suite #200, Plymouth, Michigan 48170
Phone: (734) 453-5123 Fax: (734) 453-5201

WO # 1507801

(See Reverse Side for Instructions)

Project No./Phase/Task Code: 017360-97	Laboratory Name: ALS	Lab Location: Holland	SSOW ID: 17360
Project Name: Former GRMP-RACER	Lab Contact: Chuck Whelton	Lab Quote No:	Cooler No:
Project Location: Wyoming, MI			Carrier: Fedex
Chemistry Contact: Rana Fleischer			Airbill No:
Sampler(s): E. Barkenbus			Date Shipped: 2-19-15

Item	Sample Identification (Containers for each sample may be combined on one line)	Date (mm/dd/yy)	Time (hh:mm)	Matrix Code (see back of COC)	Grab (G) or Comp. (C)	Unpreserved	Hydrochloric Acid (HCl)	Nitric Acid (HNO_3)	Sulfuric Acid (H_2SO_4)	Sodium Hydroxide (NaOH)	Methanol/Water (Soil VOC)	EnCores 3x5-g, 1x25-g	Other:	Total Containers/Sample	BTEX								MS/MSD Request	Comments/ Special Instructions:
1	SO-017360-071415-EB-03	2/19/15	1510	SO	C									1	X									
2	-037		1530			1								1	X									
3	-025		1595			1								1	X									
4	-026		1600			1								1	X									
5	-027		1605			2								2	X									
6																								
7																								
8																								
9																								
10																								
11																								
12																								
13																								
14																								
15																								

TAT Required in business days (use separate COCs for different TATs):
☐ 1 Day ☒ 2 Days ☐ 3 Days ☐ 1 Week ☐ 2 Week ☐ Other

Total Number of Containers: 5

All Samples in Cooler must be on COC

Notes/ Special Requirements:

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1.	GHD	2-19-15	1730	1.	ALS	2/19/15	1930
2.				2.			
3.				3.			

THE CHAIN OF CUSTODY IS A LEGAL DOCUMENT – ALL FIELDS MUST BE COMPLETED ACCURATELY

Distribution: WHITE – Fully Executed Copy (CRA) YELLOW – Receiving Laboratory Copy PINK – Shipper GOLDENROD – Sampling Crew

CRA Form: COC-10A (29)

ALS Group USA, Corp

Sample Receipt Checklist

Client Name: **GHD - PLYMOUTH** Date/Time Received: **15-Jul-15 09:30**

Work Order: **1507801** Received by: **NML**

Checklist completed by Naoma Leonard eSignature 15-Jul-15 Date Reviewed by: Chad Whelton eSignature 15-Jul-15 Date

Matrices: SOIL

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	7/15/2015 12:08:52 PM		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

Appendix F
Data Validation Memorandum

Memorandum

To:	Jennifer Quigley	Ref. No.:	17360-T03Y15-02Y15
From:	Nancy Bergstrom/tl/76/Det	Date:	September 14, 2015
cc:	Rawa Fleisher		

Re: Analytical Results and Reduced Validation
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

1. Introduction

This document details a reduced validation of analytical results for soil samples collected in support of the Bulk Unload Area Verification Sampling at the Racer Grand Rapids Stamping Site during June and July 2015. Samples were submitted to ALS Environmental, located in Holland, Michigan (ALS-MI). A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Standard GHD report deliverables were submitted by the laboratory. The final results and supporting quality assurance/quality control (QA/QC) data were assessed. Evaluation of the data was based on information obtained from the chain of custody forms, finished report forms, method blank data, recovery data from surrogate spikes, laboratory control samples (LCS), matrix spikes (MS) and field QA/QC samples.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Former Grand Rapids Metal Plant Quality Assurance Project Plan (QAPP)", Revision 1, January 6, 2011

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", United States Environmental Protection Agency (USEPA) 540/R-99-008, October 1999.

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review", USEPA 540/R-94-013, February 1994.

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

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REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (4 +/- 2°C).

3. Laboratory Method Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

4. Surrogate Spike Recoveries - Organic Analyses

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for polychlorinated biphenyls (PCB) and polynuclear aromatic hydrocarbons (PAH) determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of PAH analyses. According to the "Guidelines" for PAH analyses, up to one outlying surrogate in the base/neutral fraction is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries met the above criteria.

5. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

For this study, LCS were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

5.1 Organic Analyses

The LCS contained all compounds of interest for PAH analysis and the compounds specified in the method for PCB analysis. All LCS were within the laboratory control limits, demonstrating acceptable analytical accuracy.

5.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits, demonstrating acceptable analytical accuracy.

6. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with known concentrations of the analytes of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

MS/MSD analyses were performed as specified in Table 1. The laboratory performed additional site-specific MS/MSD analyses internally.

6.1 Organic Analyses

The MS/MSD samples were spiked with the compounds specified in the method. Table 4 presents the sample result qualified due to outlying MS/MSD results. All remaining percent recoveries and RPD values were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision.

6.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision.

7. Field QA/QC Samples

The field QA/QC consisted of three field duplicate sample sets.

7.1 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, three field duplicate samples were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less 100 percent for soil samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criteria is two times the RL value for soil samples.

Table 4 presents the sample results qualified due to variability in the field duplicate results. All remaining field duplicate results were within acceptable agreement, demonstrating acceptable sampling and analytical precision.

8. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the RL in Table 2.

All soil results were reported on a dry weight basis.

9. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	PAH	Lead	Chromium	Hexavalent Chromium	Trivalent Chromium	Comments
ALS-MI SDG No.: 15061648													
SO-017360-062615-EB-001	Sidewall Sample -001	Soil	2	--	06/26/2015	09:00	X	--	--	--	--	--	
SO-017360-062615-EB-002	Sidewall Sample -002	Soil	2	--	06/26/2015	09:15	X	--	--	--	--	--	MS/MSD
SO-017360-062615-EB-003	Floor Sample -003	Soil	4	--	06/26/2015	09:25	X	--	--	--	--	--	
SO-017360-062615-EB-004	Floor Sample -004	Soil	4	--	06/26/2015	09:40	X	--	--	--	--	--	
SO-017360-062615-EB-005	Floor Sample -005	Soil	4	--	06/26/2015	09:50	X	--	--	--	--	--	
SO-017360-062615-EB-006	Sidewall Sample -006	Soil	3.5	--	06/26/2015	09:55	X	--	--	--	--	--	
SO-017360-062615-EB-007	Sidewall Sample -006	Soil	3.5	--	06/26/2015	10:00	X	--	--	--	--	--	FD (Sidewall Sample -006)
SO-017360-062615-EB-008	Floor Sample -008	Soil	6	--	06/26/2015	12:40	X	--	--	--	--	--	
SO-017360-062615-EB-009	Sidewall Sample -009	Soil	5	--	06/26/2015	12:50	X	--	--	--	--	--	
SO-017360-062615-EB-010	Sidewall Sample -010	Soil	5	--	06/26/2015	12:05	X	--	--	--	--	--	
SO-017360-062615-EB-011	Sidewall Sample -011	Soil	5	--	06/26/2015	12:25	X	--	--	--	--	--	
SO-017360-062615-EB-012	Floor Sample -012	Soil	4	--	06/26/2015	13:40	X	--	--	--	--	--	
SO-017360-062615-EB-013	Floor Sample -013	Soil	4	--	06/26/2015	14:05	X	--	--	--	--	--	
SO-017360-062615-EB-014	Floor Sample -014	Soil	4	--	06/26/2015	14:10	X	--	--	--	--	--	
SO-017360-062615-EB-015	Floor Sample -015	Soil	4	--	06/26/2015	14:15	X	--	--	--	--	--	
SO-017360-062615-EB-016	Floor Sample -016	Soil	4	--	06/26/2015	14:20	X	--	--	--	--	--	
SO-017360-062615-EB-017	Floor Sample -017	Soil	4	--	06/26/2015	14:25	X	--	--	--	--	--	
SO-017360-062615-EB-018	Sidewall Sample -018	Soil	2	--	06/26/2015	14:30	X	--	--	--	--	--	
SO-017360-062615-EB-019	Sidewall Sample -019	Soil	3.5	--	06/26/2015	14:35	X	--	--	--	--	--	
SO-017360-062615-EB-020	Sidewall Sample -020	Soil	3.5	--	06/26/2015	14:40	X	--	--	--	--	--	
SO-017360-062615-EB-021	Sidewall Sample -021	Soil	2	--	06/26/2015	14:45	X	--	--	--	--	--	
SO-017360-062615-EB-022	Sidewall Sample -022	Soil	2	--	06/26/2015	14:50	X	--	--	--	--	--	MS/MSD
SO-017360-062615-EB-023	Bulk Unload PCB Area - W Wall (-023)	Soil	2	--	06/26/2015	14:55	--	--	X	--	--	--	
SO-017360-062615-EB-024	Bulk Unload PCB Area - E Wall (-024)	Soil	2	--	06/26/2015	15:00	--	--	X	--	--	--	
ALS-MI SDG No.: 1507083													
SO-017360-070115-EB-001	Tar House Area - Floor (-001)	Soil	4	--	07/01/2015	11:40	X	--	--	--	--	--	
SO-017360-070115-EB-002	Tar House Area - Floor (-002)	Soil	4	--	07/01/2015	11:50	X	--	--	--	--	--	
SO-017360-070115-EB-003	Tar House Area - Floor (-003)	Soil	4	--	07/01/2015	12:00	X	--	--	--	--	--	
SO-017360-070115-EB-004	Tar House Area - N Wall (-004)	Soil	2	--	07/01/2015	12:20	X	--	--	--	--	--	
SO-017360-070115-EB-005	Tar House Area - W Wall (-005)	Soil	2	--	07/01/2015	12:35	X	--	--	--	--	--	MS/MSD
SO-017360-070115-EB-006	Tar House Area - S Wall (-006)	Soil	2	--	07/01/2015	12:45	X	--	--	--	--	--	
SO-017360-070115-EB-007	Tar House Area - E Wall (-007)	Soil	2	--	07/01/2015	12:55	X	--	--	--	--	--	
SO-017360-070115-EB-008	Tar House Area - E Wall (-008)	Soil	2	--	07/01/2015	13:00	X	--	--	--	--	--	
ALS-MI SDG No.: 1507748													
SO-017360-071415-EB-001	Tar House - E Wall (-001)	Soil	2	--	07/14/2015	10:20	X	--	--	--	--	--	MS/MSD
SO-017360-071415-EB-002	Tar House - E Wall (-002)	Soil	2	--	07/14/2015	10:30	X	--	--	--	--	--	
SO-017360-071415-EB-003	Tar House - S Wall, East (-003)	Soil	2	--	07/14/2015	10:35	X	--	--	--	--	--	
SO-017360-071415-EB-004	Tar House - S Wall, West (-004)	Soil	2	--	07/14/2015	10:40	X	--	--	--	--	--	
SO-017360-071415-EB-005	Tar House - W Wall (-005)	Soil	2	--	07/14/2015	10:50	X	--	--	--	--	--	
SO-017360-071415-EB-006	Tar House - W Wall (-006)	Soil	2	--	07/14/2015	10:55	X	--	--	--	--	--	
SO-017360-071415-EB-007	Tar House - N Wall, West (-007)	Soil	2	--	07/14/2015	10:58	X	--	--	--	--	--	

Table 1

Sample Collection and Analysis Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters: PCB	PAH	Lead	Chromium	Hexavalent Chromium	Trivalent Chromium	Comments
ALS-MI SDG No.: 1507748													
SO-017360-071415-EB-008	Tar House - N Wall, East (-008)	Soil	2	--	07/14/2015	11:05	X	--	--	--	--	--	
SO-017360-071415-EB-009	Tar House - N Wall, East (-008)	Soil	2	--	07/14/2015	11:20	X	--	--	--	--	--	FD (Tar House - N Wall, East (-008))
ALS-MI SDG No.: 1507801													
SO-017360-071415-EB-023	Sidewall Sample -023	Soil	3	--	07/14/2015	15:10	X	--	--	--	--	--	
SO-017360-071415-EB-024	Sidewall Sample -024	Soil	3	--	07/14/2015	15:30	X	--	--	--	--	--	
SO-017360-071415-EB-025	Sidewall Sample -025	Soil	3	--	07/14/2015	15:45	X	--	--	--	--	--	
SO-017360-071415-EB-026	Sidewall Sample -026	Soil	3	--	07/14/2015	16:00	X	--	--	--	--	--	
SO-017360-071415-EB-027	Sidewall Sample -027	Soil	3	--	07/14/2015	16:05	X	--	--	--	--	--	
ALS-MI SDG No.: 15071261													
SO-017360-072215-EB-001A	Floor Sample -001A	Soil	7	--	07/22/2015	15:00	X	--	--	--	--	--	
SO-017360-072215-EB-002A	Floor Sample - 002A	Soil	7	--	07/22/2015	15:20	X	--	--	--	--	--	
SO-017360-072215-EB-003A	Floor Sample - 003A	Soil	7	--	07/22/2015	15:35	X	--	--	--	--	--	
ALS-MI SDG No.: 15071515													
SO-017360-072715-EB-004A	Sidewall Sample -004A	Soil	1	6	07/27/2015	13:30	X	--	--	--	--	--	
SO-017360-072715-EB-005A	Sidewall Sample -005A	Soil	1	6	07/27/2015	13:40	X	--	--	--	--	--	
SO-017360-072715-EB-006A	Sidewall Sample -006A	Soil	1	6	07/27/2015	13:55	X	--	--	--	--	--	
SO-017360-072715-EB-007A	Sidewall Sample -007A	Soil	1	6	07/27/2015	14:15	X	--	--	--	--	--	
SO-017360-072715-EB-008A	Sidewall Sample -009A	Soil	1	6	07/27/2015	14:30	X	--	--	--	--	--	
SO-017360-072715-EB-009A	Sidewall Sample -009A	Soil	1	6	07/27/2015	14:45	X	--	--	--	--	--	FD (Sidewall Sample -009)
ALS-MI No.: 15071580													
SO-017360-072815-EB-010A	Floor Sample -010A	Soil	6	--	07/28/2015	13:00	X	--	--	--	--	--	
SO-017360-072815-EB-011A	Floor Sample -011A	Soil	7	--	07/28/2015	13:05	X	--	--	--	--	--	
SO-017360-072815-EB-012A	Sidewall Sample -012A	Soil	4	7	07/28/2015	13:15	X	--	--	--	--	--	MS/MSD
SO-017360-072815-EB-013A	Sidewall Sample -013A	Soil	4	7	07/28/2015	13:20	X	--	--	--	--	--	
SO-017360-072815-EB-014A	Sidewall Sample -014A	Soil	4	7	07/28/2015	13:30	X	--	--	--	--	--	
SO-017360-072815-EB-015A	Sidewall Sample -015A	Soil	4	6	07/28/2015	13:25	X	--	--	--	--	--	
SO-017360-072815-EB-016A	Sidewall Sample -016A	Soil	4	6	07/28/2015	13:20	X	--	--	--	--	--	
SO-017360-072815-EB-017A	Sidewall Sample -017A	Soil	3	6	07/28/2015	13:30	X	--	--	--	--	--	
SO-017360-072815-EB-018A	Sidewall Sample -018A	Soil	3	6	07/28/2015	13:40	X	--	--	--	--	--	
SO-017360-072815-EB-019A	Sidewall Sample -019A	Soil	3	6	07/28/2015	13:50	X	--	--	--	--	--	
SO-017360-072815-EB-020A	Sidewall Sample -020A	Soil	3	6	07/28/2015	13:55	X	--	--	--	--	--	
SO-017360-072815-EB-021A	Sidewall Sample -021A	Soil	3	6	07/28/2015	14:00	X	--	--	--	--	--	

Table 1

Sample Collection and Analysis Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Identification	Location	Matrix	Initial Sample Depth (ft. bgs.)	Final Sample Depth (ft. bgs.)	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters						Comments
							PCB	PAH	Lead	Chromium	Hexavalent Chromium	Trivalent Chromium	
ALS-MI SDG No.: 15071678													
SO-017360-072915-EB-022A	Sidewall Sample -022A	Soil	3	6	07/29/2015	13:15	X	--	--	--	--	--	
SO-017360-072915-EB-044	UNKNOWN-EX	Soil	--	--	07/29/2015	15:30	--	X	--	X	X	X	
SO-017360-072915-EB-045	UNKNOWN-EX	Soil	--	--	07/29/2015	15:45	--	X	--	X	X	X	
SO-017360-072915-EB-046	UNKNOWN-EX	Soil	--	--	07/29/2015	15:55	--	X	--	X	X	X	
SO-017360-072915-EB-047	UNKNOWN-EX	Soil	--	--	07/29/2015	16:05	--	X	--	X	X	X	MS/MSD-P

Notes:

ft bgs	- Feet below ground surface
FD	- Field Duplicate Sample of sample in parenthesis
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
MS/MSD-P	- Matrix Spike/Matrix Spike Duplicate (Partial parameters)
PCB	- Polychlorinated biphenyls
PAH	- Polynuclear Aromatic Hydrocarbons
ALS-MI	- ALS Environmental - Holland, Michigan
SDG	- Sample Delivery Group

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		East floor of TSCA excavation	East side wall of grid 014	East sideall of grid 015	East sidewall of East Floor Sample
Sample Identification:		SO-017360-072815-EB-011A	SO-017360-072715-EB-007A	SO-017360-072715-EB-006A	SO-017360-072815-EB-012A
Sample Date:		7/28/2015	7/27/2015	7/27/2015	7/28/2015
Depth		(7) ft BGS	(1) ft BGS	(1) ft BGS	(4) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1221 (PCB-1221)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1232 (PCB-1232)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1242 (PCB-1242)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1248 (PCB-1248)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1254 (PCB-1254)	mg/kg	0.092 U	0.12 U	0.093 U	0.091 U
Aroclor-1260 (PCB-1260)	mg/kg	0.26	0.21	0.021 J	0.091 U
Total PCBs	mg/kg	0.26	0.21	0.021 J	ND
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		East floor of TSCA excavation	East side wall of grid 014	East sideall of grid 015	East sidewall of East Floor Sample
Sample Identification:		SO-017360-072815-EB-011A	SO-017360-072715-EB-007A	SO-017360-072715-EB-006A	SO-017360-072815-EB-012A
Sample Date:		7/28/2015	7/27/2015	7/27/2015	7/28/2015
Depth		(7) ft BGS	(1) ft BGS	(1) ft BGS	(4) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	12	33	11	11

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		East sidewall of grid 013	East sidewall of grid 013	floor sample - deep excavation of Grid 0
Sample Identification:		SO-017360-072715-EB-008A	SO-017360-072715-EB-009A	SO-017360-072215-EB-001A
Sample Date:		7/27/2015	7/27/2015	7/22/2015
Depth		(1) ft BGS	(1) ft BGS	(7) ft BGS
Sample Type:			Duplicate	
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088 U	0.089 U	0.22 U
Aroclor-1260 (PCB-1260)	mg/kg	0.019 J	0.089 U	0.22 U
Total PCBs	mg/kg	0.019 J	ND	ND
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		East sidewall of grid 013	East sidewall of grid 013	floor sample - deep excavation of Grid 0
Sample Identification:		SO-017360-072715-EB-008A	SO-017360-072715-EB-009A	SO-017360-072215-EB-001A
Sample Date:		7/27/2015	7/27/2015	7/22/2015
Depth		(1) ft BGS	(1) ft BGS	(7) ft BGS
Sample Type:			Duplicate	
	Units			
General Chemistry				
Moisture content (dry weight)	%	6.2	6.0	63

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		floor sample - deep excavation of Grid 0	floor sample - deep excavation of Grid 0	North Sidewall of East Floor Sample
Sample Identification:		SO-017360-072215-EB-002A	SO-017360-072215-EB-003A	SO-017360-072815-EB-013A
Sample Date:		7/22/2015	7/22/2015	7/28/2015
Depth		(7) ft BGS	(7) ft BGS	(4) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1221 (PCB-1221)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1232 (PCB-1232)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1242 (PCB-1242)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1248 (PCB-1248)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1254 (PCB-1254)	mg/kg	0.18 U	0.2 U	0.087 U
Aroclor-1260 (PCB-1260)	mg/kg	1.5	0.2 U	0.031 J
Total PCBs	mg/kg	1.5	ND	0.031 J
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		floor sample - deep excavation of Grid 0	floor sample - deep excavation of Grid 0	North Sidewall of East Floor Sample
Sample Identification:		SO-017360-072215-EB-002A	SO-017360-072215-EB-003A	SO-017360-072815-EB-013A
Sample Date:		7/22/2015	7/22/2015	7/28/2015
Depth		(7) ft BGS	(7) ft BGS	(4) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	56	58	8.7

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		South Sidewall of East Floor Sample	South sidewall of West Floor Sample	West floor of TSCA exacavation at N end
Sample Identification:		SO-017360-072815-EB-014A	SO-017360-072815-EB-015A	SO-017360-072815-EB-010A
Sample Date:		7/28/2015	7/28/2015	7/28/2015
Depth		(4) ft BGS	(4) ft BGS	(6) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1221 (PCB-1221)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1232 (PCB-1232)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1242 (PCB-1242)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1248 (PCB-1248)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1254 (PCB-1254)	mg/kg	0.089 U	0.088 U	0.092 U
Aroclor-1260 (PCB-1260)	mg/kg	1.1	1.5	0.17
Total PCBs	mg/kg	1.1	1.5	0.17
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		South Sidewall of East Floor Sample	South sidewall of West Floor Sample	West floor of TSCA exacavation at N end
Sample Identification:		SO-017360-072815-EB-014A	SO-017360-072815-EB-015A	SO-017360-072815-EB-010A
Sample Date:		7/28/2015	7/28/2015	7/28/2015
Depth		(4) ft BGS	(4) ft BGS	(6) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	10	8.5	11

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West sidewall 10 feet south of manhole a	West sidewall 15 feet section south of T	West sidewall 30 feet section south of T
Sample Identification:		SO-017360-072915-EB-022A	SO-017360-072815-EB-018A	SO-017360-072815-EB-019A
Sample Date:		7/29/2015	7/28/2015	7/28/2015
Depth		(3) ft BGS	(3) ft BGS	(3) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1221 (PCB-1221)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1232 (PCB-1232)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1242 (PCB-1242)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1248 (PCB-1248)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1254 (PCB-1254)	mg/kg	0.083 U	0.084 U	0.08 U
Aroclor-1260 (PCB-1260)	mg/kg	0.59	5.9	0.48
Total PCBs	mg/kg	0.59	5.9	0.48
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West sidewall 10 feet south of manhole a	West sidewall 15 feet section south of T	West sidewall 30 feet section south of T
Sample Identification:		SO-017360-072915-EB-022A	SO-017360-072815-EB-018A	SO-017360-072815-EB-019A
Sample Date:		7/29/2015	7/28/2015	7/28/2015
Depth		(3) ft BGS	(3) ft BGS	(3) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	2.5	4.6	1.7

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West sidewall 45 feet section south of T	West sidewall 60 feet section south of T	West sidewall of grid 016	West sidewall of grid 017
Sample Identification:		SO-017360-072815-EB-020A	SO-017360-072815-EB-021A	SO-017360-072715-EB-005A	SO-017360-072715-EB-004A
Sample Date:		7/28/2015	7/28/2015	7/27/2015	7/27/2015
Depth		(3) ft BGS	(3) ft BGS	(1) ft BGS	(1) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.081 U	0.085 U	0.088 U	1.6 U
Aroclor-1221 (PCB-1221)	mg/kg	0.081 U	0.085 U	0.088 U	1.6 U
Aroclor-1232 (PCB-1232)	mg/kg	0.081 U	0.085 U	0.088 U	1.6 U
Aroclor-1242 (PCB-1242)	mg/kg	0.081 U	0.085 U	0.088 U	1.6 U
Aroclor-1248 (PCB-1248)	mg/kg	0.081 U	0.085 U	0.088 U	1.6 U
Aroclor-1254 (PCB-1254)	mg/kg	1.6	0.085 U	0.088 U	1.6 U
Aroclor-1260 (PCB-1260)	mg/kg	0.081 U	6	0.44	48
Total PCBs	mg/kg	1.6	6	0.44	48
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West sidewall 45 feet section south of T	West sidewall 60 feet section south of T	West sidewall of grid 016	West sidewall of grid 017
Sample Identification:		SO-017360-072815-EB-020A	SO-017360-072815-EB-021A	SO-017360-072715-EB-005A	SO-017360-072715-EB-004A
Sample Date:		7/28/2015	7/28/2015	7/27/2015	7/27/2015
Depth		(3) ft BGS	(3) ft BGS	(1) ft BGS	(1) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	2.5	1.8	7.8	0.46

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West Sidewall of TSCA excavation N end o	Bulk Unload PCB Area - N Wall (-001)	Tar House - E Wall (-001)	Tar House Area - Floor (-001)
Sample Identification:		SO-017360-072815-EB-017A	SO-017360-062615-EB-001	SO-017360-071415-EB-001	SO-017360-070115-EB-001
Sample Date:		7/28/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(3) ft BGS	(2) ft BGS	(2) ft BGS	(4) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1221 (PCB-1221)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1232 (PCB-1232)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1242 (PCB-1242)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1248 (PCB-1248)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1254 (PCB-1254)	mg/kg	0.092 U	0.088 U	0.082 U	0.085 U
Aroclor-1260 (PCB-1260)	mg/kg	0.81	0.033 J	0.024 J	0.45
Total PCBs	mg/kg	0.81	0.033 J	0.024	0.45
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		West Sidewall of TSCA excavation N end o	Bulk Unload PCB Area - N Wall (-001)	Tar House - E Wall (-001)	Tar House Area - Floor (-001)
Sample Identification:		SO-017360-072815-EB-017A	SO-017360-062615-EB-001	SO-017360-071415-EB-001	SO-017360-070115-EB-001
Sample Date:		7/28/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(3) ft BGS	(2) ft BGS	(2) ft BGS	(4) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	9.9	7.3	4.1	3.8

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - E Wall (-002)	Tar House - E Wall (-002)	Tar House Area - Floor (-002)	Bulk Unload PCB Area - Floor (-003)
Sample Identification:		SO-017360-062615-EB-002	SO-017360-071415-EB-002	SO-017360-070115-EB-002	SO-017360-062615-EB-003
Sample Date:		6/26/2015	7/14/2015	7/1/2015	6/26/2015
Depth		(2) ft BGS	(2) ft BGS	(4) ft BGS	(4) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.087 U	0.094 U	0.086 U	0.091 U
Aroclor-1221 (PCB-1221)	mg/kg	0.087 U	0.094 U	0.086 U	0.091 U
Aroclor-1232 (PCB-1232)	mg/kg	0.087 U	0.094 U	0.086 U	0.091 U
Aroclor-1242 (PCB-1242)	mg/kg	0.087 U	0.094 U	0.086 U	0.091 U
Aroclor-1248 (PCB-1248)	mg/kg	0.087 U	0.094 U	0.086 U	0.091 U
Aroclor-1254 (PCB-1254)	mg/kg	0.18	0.094 U	0.086 U	0.064 J
Aroclor-1260 (PCB-1260)	mg/kg	0.1	0.05 J	0.26	0.038 J
Total PCBs	mg/kg	0.28	0.05 J	0.26	0.102 J
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - E Wall (-002)	Tar House - E Wall (-002)	Tar House Area - Floor (-002)	Bulk Unload PCB Area - Floor (-003)
Sample Identification:		SO-017360-062615-EB-002	SO-017360-071415-EB-002	SO-017360-070115-EB-002	SO-017360-062615-EB-003
Sample Date:		6/26/2015	7/14/2015	7/1/2015	6/26/2015
Depth		(2) ft BGS	(2) ft BGS	(4) ft BGS	(4) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	8.4	12	4.2	9.2

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - S Wall, East (-003)	Tar House Area - Floor (-003)	Bulk Unload PCB Area - Floor (-004)	Tar House - S Wall, West (-004)
Sample Identification:		SO-017360-071415-EB-003	SO-017360-070115-EB-003	SO-017360-062615-EB-004	SO-017360-071415-EB-004
Sample Date:		7/14/2015	7/1/2015	6/26/2015	7/14/2015
Depth		(2) ft BGS	(4) ft BGS	(4) ft BGS	(2) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1221 (PCB-1221)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1232 (PCB-1232)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1242 (PCB-1242)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1248 (PCB-1248)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1254 (PCB-1254)	mg/kg	0.083 U	0.082 U	0.089 U	0.084 U
Aroclor-1260 (PCB-1260)	mg/kg	0.17	0.28	69	0.35
Total PCBs	mg/kg	0.17	0.28	69	0.35
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - S Wall, East (-003)	Tar House Area - Floor (-003)	Bulk Unload PCB Area - Floor (-004)	Tar House - S Wall, West (-004)
Sample Identification:		SO-017360-071415-EB-003	SO-017360-070115-EB-003	SO-017360-062615-EB-004	SO-017360-071415-EB-004
Sample Date:		7/14/2015	7/1/2015	6/26/2015	7/14/2015
Depth		(2) ft BGS	(4) ft BGS	(4) ft BGS	(2) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	2.4	4.0	9.9	5.8

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House Area - N Wall (-004)	Bulk Unload PCB Area - Floor (-005)	Tar House - W Wall (-005)	Tar House Area - W Wall (-005)
Sample Identification:		SO-017360-070115-EB-004	SO-017360-062615-EB-005	SO-017360-071415-EB-005	SO-017360-070115-EB-005
Sample Date:		7/1/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(2) ft BGS	(4) ft BGS	(2) ft BGS	(2) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1221 (PCB-1221)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1232 (PCB-1232)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1242 (PCB-1242)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1248 (PCB-1248)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1254 (PCB-1254)	mg/kg	0.085 U	0.092 U	0.083 U	0.086 U
Aroclor-1260 (PCB-1260)	mg/kg	0.085 U	1.6	0.34	0.67
Total PCBs	mg/kg	ND	1.6	0.34	0.67
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House Area - N Wall (-004)	Bulk Unload PCB Area - Floor (-005)	Tar House - W Wall (-005)	Tar House Area - W Wall (-005)
Sample Identification:		SO-017360-070115-EB-004	SO-017360-062615-EB-005	SO-017360-071415-EB-005	SO-017360-070115-EB-005
Sample Date:		7/1/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(2) ft BGS	(4) ft BGS	(2) ft BGS	(2) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	3.1	10	5.5	4.9

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - W Wall (-006)	Bulk Unload PCB Area - W Wall (-006)	Tar House - W Wall (-006)	Tar House Area - S Wall (-006)
Sample Identification:		SO-017360-062615-EB-006	SO-017360-062615-EB-007	SO-017360-071415-EB-006	SO-017360-070115-EB-006
Sample Date:		6/26/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(3.5) ft BGS	(3.5) ft BGS	(2) ft BGS	(2) ft BGS
Sample Type:			Duplicate		
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1221 (PCB-1221)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1232 (PCB-1232)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1242 (PCB-1242)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1248 (PCB-1248)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1254 (PCB-1254)	mg/kg	0.087 U	0.089 U	0.085 U	0.08 U
Aroclor-1260 (PCB-1260)	mg/kg	15 J	3.4 J	0.085 U	0.72
Total PCBs	mg/kg	15 J	3.4 J	ND	0.72
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - W Wall (-006)	Bulk Unload PCB Area - W Wall (-006)	Tar House - W Wall (-006)	Tar House Area - S Wall (-006)
Sample Identification:		SO-017360-062615-EB-006	SO-017360-062615-EB-007	SO-017360-071415-EB-006	SO-017360-070115-EB-006
Sample Date:		6/26/2015	6/26/2015	7/14/2015	7/1/2015
Depth		(3.5) ft BGS	(3.5) ft BGS	(2) ft BGS	(2) ft BGS
Sample Type:			Duplicate		
	Units				
General Chemistry					
Moisture content (dry weight)	%	9.6	9.2	2.7	2.4

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - N Wall, West (-007)	Tar House Area - E Wall (-007)	Bulk Unload PCB Area - 6' Floor (-008)	Tar House - N Wall, East (-008)
Sample Identification:		SO-017360-071415-EB-007	SO-017360-070115-EB-007	SO-017360-062615-EB-008	SO-017360-071415-EB-008
Sample Date:		7/14/2015	7/1/2015	6/26/2015	7/14/2015
Depth		(2) ft BGS	(2) ft BGS	(6) ft BGS	(2) ft BGS
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--	--
Lead	mg/kg	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1221 (PCB-1221)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	0.083 U	0.086 U	0.11 U	0.083 U
Aroclor-1260 (PCB-1260)	mg/kg	0.021 J	0.04 J	2	0.083 U
Total PCBs	mg/kg	0.021 J	0.04 J	2	ND
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	--
Acenaphthene	mg/kg	--	--	--	--
Acenaphthylene	mg/kg	--	--	--	--
Anthracene	mg/kg	--	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--	--
Chrysene	mg/kg	--	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--	--
Fluoranthene	mg/kg	--	--	--	--
Fluorene	mg/kg	--	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	--
Naphthalene	mg/kg	--	--	--	--
Phenanthrene	mg/kg	--	--	--	--
Pyrene	mg/kg	--	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - N Wall, West (-007)	Tar House Area - E Wall (-007)	Bulk Unload PCB Area - 6' Floor (-008)	Tar House - N Wall, East (-008)
Sample Identification:		SO-017360-071415-EB-007	SO-017360-070115-EB-007	SO-017360-062615-EB-008	SO-017360-071415-EB-008
Sample Date:		7/14/2015	7/1/2015	6/26/2015	7/14/2015
Depth		(2) ft BGS	(2) ft BGS	(6) ft BGS	(2) ft BGS
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	5.4	5.2	26	2.8

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - N Wall, East (-008)	Tar House Area - E Wall (-008)	Bulk Unload PCB Area - 6' S Wall (-009)
Sample Identification:		SO-017360-071415-EB-009	SO-017360-070115-EB-008	SO-017360-062615-EB-009
Sample Date:		7/14/2015	7/1/2015	6/26/2015
Depth		(2) ft BGS	(2) ft BGS	(5) ft BGS
Sample Type:		Duplicate		
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1221 (PCB-1221)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1232 (PCB-1232)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1242 (PCB-1242)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1248 (PCB-1248)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1254 (PCB-1254)	mg/kg	0.084 U	0.091 U	0.09 U
Aroclor-1260 (PCB-1260)	mg/kg	0.084 U	0.039 J	2
Total PCBs	mg/kg	ND	0.039 J	2
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Tar House - N Wall, East (-008)	Tar House Area - E Wall (-008)	Bulk Unload PCB Area - 6' S Wall (-009)
Sample Identification:		SO-017360-071415-EB-009	SO-017360-070115-EB-008	SO-017360-062615-EB-009
Sample Date:		7/14/2015	7/1/2015	6/26/2015
Depth		(2) ft BGS	(2) ft BGS	(5) ft BGS
Sample Type:		Duplicate		
	Units			
General Chemistry				
Moisture content (dry weight)	%	3.0	11	12

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - 6' E Wall (-010)	Bulk Unload PCB Area - 6' N Wall (-011)	Bulk Unload PCB Area - Floor (-012)
Sample Identification:		SO-017360-062615-EB-010	SO-017360-062615-EB-011	SO-017360-062615-EB-012
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(5) ft BGS	(5) ft BGS	(4) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.088 U	0.09 U	0.083 U
Aroclor-1221 (PCB-1221)	mg/kg	0.088 U	0.09 U	0.083 U
Aroclor-1232 (PCB-1232)	mg/kg	0.088 U	0.09 U	0.083 U
Aroclor-1242 (PCB-1242)	mg/kg	0.088 U	0.09 U	0.083 U
Aroclor-1248 (PCB-1248)	mg/kg	0.088 U	0.09 U	0.083 U
Aroclor-1254 (PCB-1254)	mg/kg	0.088	0.09 U	0.083 U
Aroclor-1260 (PCB-1260)	mg/kg	0.15	44	8.5
Total PCBs	mg/kg	0.238	44	8.5
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - 6' E Wall (-010)	Bulk Unload PCB Area - 6' N Wall (-011)	Bulk Unload PCB Area - Floor (-012)
Sample Identification:		SO-017360-062615-EB-010	SO-017360-062615-EB-011	SO-017360-062615-EB-012
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(5) ft BGS	(5) ft BGS	(4) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	10	11	5.7

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - Floor (-013)	Bulk Unload PCB Area - Floor (-014)	Bulk Unload PCB Area - Floor (-015)
Sample Identification:		SO-017360-062615-EB-013	SO-017360-062615-EB-014	SO-017360-062615-EB-015
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(4) ft BGS	(4) ft BGS	(4) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1221 (PCB-1221)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1232 (PCB-1232)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1242 (PCB-1242)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1248 (PCB-1248)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1254 (PCB-1254)	mg/kg	0.085 U	0.11 U	0.087 U
Aroclor-1260 (PCB-1260)	mg/kg	39	42	25
Total PCBs	mg/kg	39	42	25
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - Floor (-013)	Bulk Unload PCB Area - Floor (-014)	Bulk Unload PCB Area - Floor (-015)
Sample Identification:		SO-017360-062615-EB-013	SO-017360-062615-EB-014	SO-017360-062615-EB-015
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(4) ft BGS	(4) ft BGS	(4) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	5.8	22	5.3

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - Floor (-016)	Bulk Unload PCB Area - Floor (-017)	Bulk Unload PCB Area - S Wall (-018)
Sample Identification:		SO-017360-062615-EB-016	SO-017360-062615-EB-017	SO-017360-062615-EB-018
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(4) ft BGS	(4) ft BGS	(2) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.084 U	0.088 U	0.095 U
Aroclor-1221 (PCB-1221)	mg/kg	0.084 U	0.088 U	0.095 U
Aroclor-1232 (PCB-1232)	mg/kg	0.084 U	0.088 U	0.095 U
Aroclor-1242 (PCB-1242)	mg/kg	0.084 U	0.088 U	0.095 U
Aroclor-1248 (PCB-1248)	mg/kg	0.084 U	0.088 U	0.095 U
Aroclor-1254 (PCB-1254)	mg/kg	0.084 U	0.088 U	0.035 J
Aroclor-1260 (PCB-1260)	mg/kg	0.22	1.1	0.085 J
Total PCBs	mg/kg	0.22	1.1	0.12 J
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - Floor (-016)	Bulk Unload PCB Area - Floor (-017)	Bulk Unload PCB Area - S Wall (-018)
Sample Identification:		SO-017360-062615-EB-016	SO-017360-062615-EB-017	SO-017360-062615-EB-018
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(4) ft BGS	(4) ft BGS	(2) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	5.6	10	15

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - W Wall (-019)	Bulk Unload PCB Area - W Wall (-020)	Bulk Unload PCB Area - E Wall (-021)
Sample Identification:		SO-017360-062615-EB-019	SO-017360-062615-EB-020	SO-017360-062615-EB-021
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(3.5) ft BGS	(3.5) ft BGS	(2) ft BGS
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	--	--	--
Chromium VI (hexavalent)	mg/kg	--	--	--
Chromium III (trivalent)	mg/kg	--	--	--
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1221 (PCB-1221)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1232 (PCB-1232)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1242 (PCB-1242)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1248 (PCB-1248)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1254 (PCB-1254)	mg/kg	0.089 U	0.084 U	0.085 U
Aroclor-1260 (PCB-1260)	mg/kg	45	12	0.46
Total PCBs	mg/kg	45	12	0.46
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	--	--	--
Acenaphthene	mg/kg	--	--	--
Acenaphthylene	mg/kg	--	--	--
Anthracene	mg/kg	--	--	--
Benzo(a)anthracene	mg/kg	--	--	--
Benzo(a)pyrene	mg/kg	--	--	--
Benzo(b)fluoranthene	mg/kg	--	--	--
Benzo(g,h,i)perylene	mg/kg	--	--	--
Benzo(k)fluoranthene	mg/kg	--	--	--
Chrysene	mg/kg	--	--	--
Dibenz(a,h)anthracene	mg/kg	--	--	--
Fluoranthene	mg/kg	--	--	--
Fluorene	mg/kg	--	--	--
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--
Naphthalene	mg/kg	--	--	--
Phenanthrene	mg/kg	--	--	--
Pyrene	mg/kg	--	--	--

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - W Wall (-019)	Bulk Unload PCB Area - W Wall (-020)	Bulk Unload PCB Area - E Wall (-021)
Sample Identification:		SO-017360-062615-EB-019	SO-017360-062615-EB-020	SO-017360-062615-EB-021
Sample Date:		6/26/2015	6/26/2015	6/26/2015
Depth		(3.5) ft BGS	(3.5) ft BGS	(2) ft BGS
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	7.0	6.8	7.4

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - E Wall (-022)	Bulk Unload PCB Area - W Wall (-023)	Bulk Unload PCB Area - E Wall (-024)	UNKNOWN-EX
Sample Identification:		SO-017360-062615-EB-022	SO-017360-062615-EB-023	SO-017360-062615-EB-024	SO-017360-072915-EB-044
Sample Date:		6/26/2015	6/26/2015	6/26/2015	7/29/2015
Depth		(2) ft BGS	(2) ft BGS	(2) ft BGS	-
Sample Type:					
	Units				
Metals					
Chromium	mg/kg	--	--	--	79
Chromium VI (hexavalent)	mg/kg	--	--	--	0.85 J
Chromium III (trivalent)	mg/kg	--	--	--	78
Lead	mg/kg	--	19	39	--
PCBs					
Aroclor-1016 (PCB-1016)	mg/kg	0.09 U	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	0.09 U	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	0.09 U	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	0.09 U	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	0.09 U	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	0.09 U	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	2.2 J	--	--	--
Total PCBs	mg/kg	2.2 J	--	--	--
Polynuclear Aromatics (PNA's)					
2-Methylnaphthalene	mg/kg	--	--	--	1.4
Acenaphthene	mg/kg	--	--	--	12
Acenaphthylene	mg/kg	--	--	--	0.27
Anthracene	mg/kg	--	--	--	24
Benzo(a)anthracene	mg/kg	--	--	--	53
Benzo(a)pyrene	mg/kg	--	--	--	43
Benzo(b)fluoranthene	mg/kg	--	--	--	65
Benzo(g,h,i)perylene	mg/kg	--	--	--	25
Benzo(k)fluoranthene	mg/kg	--	--	--	17
Chrysene	mg/kg	--	--	--	58
Dibenz(a,h)anthracene	mg/kg	--	--	--	6.6
Fluoranthene	mg/kg	--	--	--	150
Fluorene	mg/kg	--	--	--	13
Indeno(1,2,3-cd)pyrene	mg/kg	--	--	--	41
Naphthalene	mg/kg	--	--	--	2.2
Phenanthrene	mg/kg	--	--	--	120
Pyrene	mg/kg	--	--	--	100

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		Bulk Unload PCB Area - E Wall (-022)	Bulk Unload PCB Area - W Wall (-023)	Bulk Unload PCB Area - E Wall (-024)	UNKNOWN-EX
Sample Identification:		SO-017360-062615-EB-022	SO-017360-062615-EB-023	SO-017360-062615-EB-024	SO-017360-072915-EB-044
Sample Date:		6/26/2015	6/26/2015	6/26/2015	7/29/2015
Depth		(2) ft BGS	(2) ft BGS	(2) ft BGS	-
Sample Type:					
	Units				
General Chemistry					
Moisture content (dry weight)	%	7.8	7.5	11	22

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		UNKNOWN-EX	UNKNOWN-EX	UNKNOWN-EX
Sample Identification:		SO-017360-072915-EB-045	SO-017360-072915-EB-046	SO-017360-072915-EB-047
Sample Date:		7/29/2015	7/29/2015	7/29/2015
Depth		-	-	-
Sample Type:				
	Units			
Metals				
Chromium	mg/kg	13	1200	24
Chromium VI (hexavalent)	mg/kg	0.73 J	2.7	0.83 J
Chromium III (trivalent)	mg/kg	12	1200	24
Lead	mg/kg	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	mg/kg	--	--	--
Aroclor-1221 (PCB-1221)	mg/kg	--	--	--
Aroclor-1232 (PCB-1232)	mg/kg	--	--	--
Aroclor-1242 (PCB-1242)	mg/kg	--	--	--
Aroclor-1248 (PCB-1248)	mg/kg	--	--	--
Aroclor-1254 (PCB-1254)	mg/kg	--	--	--
Aroclor-1260 (PCB-1260)	mg/kg	--	--	--
Total PCBs	mg/kg	--	--	--
Polynuclear Aromatics (PNA's)				
2-Methylnaphthalene	mg/kg	0.06 J	1.1	0.0068 U
Acenaphthene	mg/kg	0.071 U	3.6	0.0068 U
Acenaphthylene	mg/kg	0.071 U	0.79	0.0068 U
Anthracene	mg/kg	0.099	20	0.0055 J
Benzo(a)anthracene	mg/kg	0.47	76	0.014
Benzo(a)pyrene	mg/kg	0.51	65	0.023
Benzo(b)fluoranthene	mg/kg	0.82	94	0.03
Benzo(g,h,i)perylene	mg/kg	0.37	42	0.05
Benzo(k)fluoranthene	mg/kg	0.22	23	0.012
Chrysene	mg/kg	0.52	79	0.015
Dibenz(a,h)anthracene	mg/kg	0.17	11	0.011
Fluoranthene	mg/kg	0.86	130	0.022
Fluorene	mg/kg	0.071 U	6	0.0068 U
Indeno(1,2,3-cd)pyrene	mg/kg	0.55	58	0.036
Naphthalene	mg/kg	0.05 J	1.5	0.0068 U
Phenanthrene	mg/kg	0.35	77	0.012
Pyrene	mg/kg	0.63	100	0.017

Table 2

Validated Analytical Results Summary
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Sample Location:		UNKNOWN-EX	UNKNOWN-EX	UNKNOWN-EX
Sample Identification:		SO-017360-072915-EB-045	SO-017360-072915-EB-046	SO-017360-072915-EB-047
Sample Date:		7/29/2015	7/29/2015	7/29/2015
Depth		-	-	-
Sample Type:				
	Units			
General Chemistry				
Moisture content (dry weight)	%	7.3	19	3.5

Notes:

ND( ) - Not detected at the associated reporting limit.
U - Not detected at the associated reporting limit.
J - Estimated concentration.

Table 3

Analytical Methods
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
PCB	SW-846 8082	Soil	14	40
PAH	SW-846 8270D	Soil	14	40
Lead	SW-846 6020A	Soil	-	180
Chromium	SW-846 6020A	Soil	-	180
Hexavalent Chromium	SW-846 7196A	Soil	28	7
Trivalent Chromium	Calculation	Soil	-	-

Notes:

PCB - Polychlorinated biphenyls
PAH - Polynuclear Aromatic Hydrocarbons

Method References:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Outlying MS/MSD Results
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
PCB	SO-017360-062615-EB-022	Aroclor-1260	108	363	53.4	40-140	50	2200 J	µg/kg

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
PCB - Polychlorinated biphenyls
J - Estimated concentration

Table 5

Qualified Sample Data Due to Variability in Field Duplicate Results
Bulk Unload Area Verification Sampling
Racer Grand Rapids Stamping Site
Wyoming, Michigan
June and July 2015

Parameter	Analyte	RPD/Diff		Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
PCB	Arolcor-1260	RPD	130	SO-017360-062615-EB-006	15000 J	SO-017360-062615-EB-007	3400 J	µg/kg
PCB	Total PCB	RPD	130	SO-017360-062615-EB-006	15000 J	SO-017360-062615-EB-007	3400 J	µg/kg

Notes:

Diff - Difference (i.e., >1X RL for waters or >2XRL for soils)
RPD - Relative Percent Difference
PCB - Polychlorinated biphenyls
J - Estimated concentration

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