708 Heartland Trl.
Suite 3000
Madison, WI 53717

T 608.826.3600
TRCcompanies.com

January 21, 2021

Ms. Me'le'sa Greene
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King Jr. Dr.
Milwaukee, WI 53212

Subject: Phase 2.5 Site Investigation Report
I-43 (Capitol Drive to Hampton Ave.)
Glendale, Milwaukee County, Wisconsin
WisDOT Project ID #1228-22-01

Dear Ms. Greene:

TRC Environmental Corporation (TRC), on behalf of the Wisconsin Department of Transportation (WisDOT), is submitting a Phase 2.5 Site Investigation Report to present the details and methods of the pre-construction investigation conducted in anticipation of the I-43 reconstruction project in the City of Glendale, Milwaukee County, Wisconsin. The purpose of the investigation was to identify and determine the nature and extent of soil and sediment contamination within the existing or proposed right-of-way (ROW). The investigation included sediment sampling in the Milwaukee River and soil sampling within the ROW and the Glendale Partners, LLC property (BRRTS #02-41-520674) located at 4400 N Green Bay Ave. The investigation was completed in various phases extending from August 2019 through October 2020.

We request WDNR concurrence of the Special Provisions for the Management of Contaminated Soil and Contaminated Sediment by March 1, 2021.

Please contact Ted O'Connell at (608) 826-3648, or Alia Enright at (608) 572-3845, with any questions. We look forward to your review.

Sincerely,

TRC

Ted O'Connell
Project Manager

Alia Enright, P.E.
Project Engineer

cc: Andrew Malsom – WisDOT (PDF via email)
Sharlene TeBeest – WisDOT (PDF via email)
Bob Pearson – WisDOT (PDF via email)
Dan Haak – TRC (PDF via email)
Bryan Bergmann – TRC (PDF via email)

Phase 2.5 Site Investigation

I-43 (Capitol Dr. to Hampton Ave.) Glendale, Milwaukee County, Wisconsin

January 2021

WisDOT Project #1228-22-01

Prepared For:

Wisconsin Department of Transportation

Prepared By:

TRC
150 N. Patrick Blvd., Suite 150
Brookfield, WI 53045

Alia Enright, P.E.
Project Engineer

Theodore O'Connell
Project Manager

Bryan Bergmann, P.G.
TRC Quality Assurance

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COMMONLY USED ABBREVIATIONS AND ACRONYMS

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DATCP	Department of Agriculture, Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ERP	Environmental Repair Program
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

Executive Summary

The Wisconsin Department of Transportation (WisDOT) is planning to reconstruct I-43 from Capitol Drive to Hampton Ave. in the City of Glendale, Milwaukee County, Wisconsin (WisDOT #1228-22-01). Soil is planned to be excavated to a maximum depth of 15 feet (ft) below ground surface (bgs) for the reconstruction of the roadway and storm sewer. Groundwater is not expected to be encountered during construction. Construction is estimated to begin in 2021.

On August 7, 2019, TRC and its Geoprobe® subcontractor conducted soil sampling to identify and evaluate the nature and extent of potential soil contamination within the limits of construction of the I-43 corridor at 4300 N Green Bay Ave. On August 28, 2019, TRC conducted sediment sampling within the Milwaukee River below the I-43 bridge and collected surface soil samples along the northern shoreline. On November 27, 2019, TRC conducted additional soil sampling to further evaluate the nature and extent of soil contamination along the northern shoreline below the I-43 bridge crossing the Milwaukee River. On various dates throughout May 2020, TRC was onsite with WisDOT's geotechnical driller to conduct various borings in and around the Milwaukee River. On June 15 and 16, 2020, TRC was onsite to observe WisDOT's contracted archeologist perform a study within the right-of-way near the Evergreen Cemetery. On August 20, 2020, TRC and its Geoprobe® subcontractor conducted supplemental soil sampling to identify and evaluate the nature and extent of potential soil contamination within the limits of construction near the R-40-706 and R-40-707 retaining walls. On October 8, 2020, TRC Geoprobe® subcontractor conducted supplemental soil sampling to delineate hazardous lead soils within the limits of construction near the R-40-706 and R-40-707 retaining walls.

Contaminated soil and sediment are present within the limits of construction at the following locations:

Contaminated Soil:

- Station 940+50 to 944+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. There is an area within this location from 941+85 to 943+00 with TCLP (toxicity characteristic leaching procedure) - hazardous waste lead that likely will require hazardous waste disposal. The estimated volume of PAH- and metals-contaminated soil to be excavated at this location is 3,431 cubic yards (approximately 5,833 tons) of which approximately 143 tons will be considered TCLP–hazardous waste lead and 5,690 tons will be considered non-hazardous. Incidental to construction, within the limits stated above, an additional 1,489 tons of TCLP-hazardous waste lead soil will require excavation and disposal.
- Station 944+80 to 953+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 20 ft bgs. The estimated volume of PAH- and lead-contaminated soil to be excavated at this location is 685 cubic yards (approximately 1,165 tons).
- Station 953+80 to 955+00, from construction limits left to the reference line. Depths of contamination range from ground surface to 12 ft bgs. The estimated volume of metals-contaminated soil to be disposed at this location is 5,539 cubic yards (approximately 9,416 tons).

- Station 980+75 to 982+00, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. The estimated volume of PAH-, polychlorinated biphenyl (PCB)-, and metals-contaminated soil to be excavated at this location is 334 cubic yards (approximately 568 tons).

Contaminated Sediment:

- Station 978+50 to 980+75, from construction limits left to construction limits right. Depths of contamination range from the sediment surface to bedrock (0-2 ft below the sediment surface). The estimated volume of PAH-, PCB-, and metals-contaminated sediment to be excavated at this location is 201 cubic yards (approximately 342 tons).

TRC recommends that contaminated soil excavated from the areas discussed above be field-screened by an environmental consultant during excavations for the reconstruction of I-43. Soil and sediment with metals, polycyclic aromatic hydrocarbon (PAH), or PCB contamination will be landfilled at a Wisconsin Department of Natural Resources (WDNR)-licensed facility. TRC estimates a total of approximately 16,855 tons of soil and 342 tons of sediment will require off-site landfill disposal.

If determined to be geotechnically suitable by the project engineer, TRC recommends that approximately 8,030 CY of low-level PAH- and metals-contaminated soil excavated during construction from Station 944+80 to 949+10 be reused as backfill within the project corridor. If reuse is not possible on the project, then the soil will require landfill disposal at a WDNR licensed facility.

1.0 Introduction

1.1 Proposed Roadway Construction

The WisDOT is planning to reconstruct I-43 from Capitol Drive to Hampton Ave. in the City of Glendale, Milwaukee County, Wisconsin (WisDOT #1228-22-01). A site location map is presented on Figure 1. Construction is estimated to begin in 2021.

The preliminary construction drawings are included in Appendix A. The proposed reconstruction includes replacement of roadway as well as the installation of new storm sewer along I-43. Soil is planned to be excavated to depths of approximately 2 ft below existing ground surface for the construction of storm sewers, and approximately 15 ft below existing ground surface for bridge abutment work. It is anticipated that groundwater will not be encountered during construction.

The WisDOT is also proposing to construct a new bridge over the Milwaukee River. A total of eight new piers are anticipated for construction of the new bridge, four of which will be located in the Milwaukee River and four of which will be located on the north bank of the river. Each pier footing will be approximately 24 ft wide, 33 ft long, and will be set as spread footings on bedrock.

1.2 Previous Site Investigations

1.2.1 Soil Investigations

Krikau, Pyles, Rysiewicz and Associates (KPR) performed a Phase 1 and 2 investigation for the property known as CMC Glendale Yard (CMC) site (4400 N Green Bay Ave) on behalf of Heartland Development Group, Ltd. (Heartland) in November 2003. At the time Heartland was interested in purchasing the property. The investigation revealed that arsenic, lead, and polycyclic aromatic hydrocarbons (PAHs) exceeded NR 720 industrial direct contact residual contaminant levels (RCLs) at the site.

To further define the elevated lead results from KPR's investigation, STS Consultants (STS), on behalf of the property owner CMC Heartland Partners, completed a Phase 2 in January 2004. Several samples from STS's investigation exceeded the NR 720 non-industrial direct contact RCL for lead, but none exceeded the industrial RCL within the direct contact interval (0-4 ft below ground surface [bgs]). In addition, toxicity characteristic leaching procedure (TCLP) analysis indicated that the soil did not require management as a hazardous waste if excavated.

TRC, on behalf of the WisDOT, completed a Phase 2.5 investigation for the CMC site in April 2013. The purpose of the investigation was to identify potential soil contamination prior to replacement of eight storm sewer inlets beneath I-43 south of Hampton Avenue. The investigation revealed that lead- and diesel range organics (DRO)-contaminated soil was present within the right-of-way. Contamination included I-43 Sta. 1451+50 to 1452+50, 20' right of reference line to project limits right (0-2 ft bgs) and 1452+50 to 1455+50, project limits left to right (0-4 ft bgs). The replacement storm sewer inlets were installed to connect the existing storms sewer located approximately 6 to 10 ft bgs. In total, 57.47 tons of contaminated soil generated within these areas during storm sewer work was disposed at Advanced Disposal's Emerald Park Landfill in Muskego, Wisconsin.

Himalayan Consultants, LLC, completed a Phase 1 HMA for the WisDOT #1228-22-01 project corridor in April 2015. The Phase 1 Hazardous Materials Assessment (HMA) investigated 23 sites for potential hazardous materials; however, the property located at 4400 N Green Bay Ave. was not identified in the Phase 1.

The CMC site was granted closure by the WDNR in November 2016 with residual soil contamination and continuing obligations. Closure documentation suggests that a cap is present on the property to serve as a barrier to prevent direct human contact with residual soil impacts. This cap is documented as also having anywhere from 1 to 18 ft of overburden material placed over it.

TRC supplemented the Phase 1 report information with a WDNR file review of Bureau for Remediation and Redevelopment Tracking System (BRRTS) #02-41-520674 to obtain additional information regarding soil contamination, cap maintenance plans, etc. at the property. Relevant background information is included in Appendix B.

1.2.2 Sediment Investigations

Previous sediment investigation and remediation work was performed in an upstream portion of the Milwaukee River and later in the main stem of the Milwaukee River. From May to July 2008, Natural Resource Technology (NRT) conducted removal of 5,657 tons of PCB-impacted sediment and 15 tons of debris and residuals at the upgradient Lincoln Park/Blatz Pavilion Site. The average sediment thickness near this area was 3 ft, with thickness ranging from 1.5 to 4.8 ft. In 2014 Environmental Quality Management, Inc. (EQM) completed the removal of 52,456 cubic yards of contaminated sediment from the Milwaukee River stream bed. However, the area immediately adjacent to the I-43 Milwaukee River bridge was not included in the remediation as sediment thickness during the time of remediation were found to be negligible.

The As-Builts for the existing bridge and recent investigation indicate that sediment thickness ranges from 0 to 2 ft in this area of the Milwaukee River.

2.0 Phase 2.5 Investigation

2.1 Investigation

The WisDOT retained TRC to perform a Phase 2.5 Site Investigation of the I-43 corridor to identify and determine the nature and extent of soil and sediment contamination within the construction limits. Representatives from TRC and TRC's Geoprobe® subcontractor, Probe Technologies, Inc. (Probe) were on-site at the former CMC site located under I-43 at 4400 N Green Bay Ave. in Glendale, Wisconsin (Figure 2) on August 7, 2019 to install 13 soil borings and collect soil samples. Ten soil borings were installed to depths of 2 ft bgs where shallow grading activities are planned to occur. Three soil borings to depths of 15 ft bgs were installed, corresponding with assumed maximum depth of excavation for retaining wall footings. One of the proposed deep soil borings could not be installed due to overhead utilities and dense vegetation.

Representatives from TRC were on-site below the I-43 Milwaukee River bridge (Figure 3) on August 28, 2019, to obtain sediment samples from the Milwaukee River to characterize the sediment within the proposed project area. Four sediment samples from the Milwaukee River and four soil samples from the riverbank below the north side of the bridge were collected.

Sediment borings were installed at select locations within the footprint of the proposed excavations for the new bridge piers. Two sediment samples were collected immediately east of two of the existing I-43 bridge piers, and the other two sediment samples were collected approximately 50 ft east of the piers. Four soil samples were collected from the northern slope—two samples from each side of the bridge. The soil and sediment borings were advanced until refusal was encountered. Excess soil or sediment sample material was not generated during this investigation.

Representatives from TRC and Probe were on-site below the I-43 Milwaukee River bridge on November 27, 2019, to install 5 soil borings and collect soil samples. Soil borings were installed to depths up to 4 ft bgs along the bank below the bridge. Soil borings S-1R and S-2R were intended to be installed at the location of S-1 and S-2 respectively in order to collect deeper soil samples at these locations. S-2R encountered refusal at 20 inches bgs. Three step-out borings were conducted near S-2, but all encountered refusal at approximately 20 inches bgs. The S-2R soil sample was collected from the step-out boring located approximately 10 ft west of the original soil boring S-2.

Representatives from TRC and Probe were on-site on August 20, 2020, to install 8 soil borings and collect soil samples within the limits of construction near the R-40-706 and R-40-707 retaining walls. Five borings (B-1 through B-5) were installed to a depth of 4 ft bgs near R-40-706. Three borings (B-6 through B-8) were installed to a depth of 12 ft bgs near R-40-707.

Representatives from TRC and Probe were on-site on October 8, 2020, to install 17 soil borings and collect soil samples within the limits of construction near the R-40-706 and R-40-707 retaining walls to delineate hazardous lead soils. Five borings (B-1A through B-5A) were installed to a depth of 6 ft bgs near R-40-706, immediately adjacent to previously installed borings B-1 through B-5. Borings B-9 through B-17 were installed to a depth of 6 ft bgs, and borings B-18 through B-20 were installed to a depth of 4 ft bgs.

Site investigation photographs are included in Appendix C, and soil and sediment sample locations are shown on Figures 2, 3, and 4. Soil and sediment boring logs are included in Appendix D.

2.2 Soil Sampling

Soil sampling was conducted by TRC during multiple field mobilizations. Soil samples were collected continuously at each boring location for field description according to the United Soil Classification System (USCS) and field-screened for staining, odors, and for volatile organic compounds (VOCs) using a photoionization detector (PID).

Thirteen soil borings were installed at the CMC site located at 4400 N Green Bay Ave. Glendale Partners, LLC property on August 7, 2019. Samples were collected from the overburden material over the existing cap at the site. Soil at this property consisted predominately of brown sandy silt or silty sand with gravel. Saturated soils were not encountered. PID responses were detected in soil collected from all 13 of the borings installed at this property; however, detections appear to have been elevated due to influences from soil moisture and VOCs evaporating from sample bags (e.g., a PID response check of an empty sample bag resulted in a PID reading of 10.3). One soil sample was collected from each boring for laboratory analysis (13 borings total). Soil samples were collected from the depth interval with the highest impacts based on field-screening results.

If no impacts were observed in the field, then a soil sample was collected from the depth interval most likely impacted based on historic information.

Four soil borings were installed along the northern slope below the I-43 Milwaukee River bridge on August 28, 2019. Soil borings extended to depths of 1 to 2 ft bgs (until refusal). One soil sample was collected from each boring for laboratory analysis. Soil samples were collected from the 0 to 1 ft depth interval, as the intent of the sampling was to identify potential past sediment deposition from historically higher river levels. The borings were abandoned immediately following sample collection.

Five additional soil borings were installed to further delineate the vertical extent of soil contamination along the northern slope below the I-43 Milwaukee River bridge on November 27, 2019. Soil borings extended to depths of 4 ft bgs or until refusal. One to two soil samples were collected from each soil boring for laboratory analysis. The borings were abandoned immediately following sample collection.

On various dates throughout May 2020, WisDOT's geotechnical driller conducted various borings in and adjacent to the Milwaukee River in the area of I-43. No samples were collected from the borings performed at Waypoint 2 (B-2), Waypoint 3 (B-3), and Waypoint 10 (B-12) because of minimal recovery of sediment from the split spoon samplers. Boring location Waypoint 9 (B-11) was on the bridge abutment along the south side of the Milwaukee River, within the existing I-43 southbound lane. Due to limited sample recovery, only 1 soil sample was collected from the boring Waypoint 9 from the 2 to 4 ft bgs interval. Waypoint 1 was not installed, as it was deemed unnecessary for the geotechnical investigation. Based on discussions with the WisDOT geotechnical drilling team, bedrock was encountered at very shallow depths in this area and is sometimes even exposed at the ground surface. Geotechnical boring logs are included in Appendix A.

On June 15 and 16, 2020, TRC was on-site to screen soils for the archeological study within the right-of-way near the Evergreen Cemetery (Figure 2). The excavation was performed by Great Lakes Excavating and was overseen by WisDOT's contracted archeologist from the University of Wisconsin-Milwaukee. Excavated soils were temporarily stockpiled on plastic in the ROW under I-43. Twelve samples (SS-P-01 through SS-P-12) were collected from various depths and locations from the excavated soils. Excavated soils did not display any indicators of contamination (odor, staining, or elevated PID readings). After the investigation was complete Great Lakes Excavating replaced the stockpiled soils in the area they were excavated from, graded, and placed erosion control/seed mats to restore the area.

On August 20, 2020, TRC and Probe conducted supplemental soil sampling to identify and evaluate the nature and extent of potential soil contamination within the limits of construction near the R-40-706 and R-40-707 retaining walls. Five borings (B-1 through B-5) were installed to a depth of 4 ft bgs near R-40-706 (I-43 northbound structure). One soil sample was collected from each boring for laboratory analysis. Soils encountered in borings B-1 through B-5 consisted predominately of fill soils (brown clay, sandy clay, silt, sand, sand and gravel) with intermittent layers of industrial fill. Saturated soils were not encountered. PID responses were not detected in soil collected from all of the borings installed at this location. Three borings (B-6 through B-8) were installed to a depth of 12 ft bgs near R-40-707 (I-43 southbound structure). Two soil samples were collected from each boring for laboratory analysis. Soils encountered in borings B-6 through

B-8 consisted predominately of fill soils (brown clay, and silt). Saturated soils were encountered at 8-10 ft bgs. The borings were abandoned immediately following sample collection.

Representatives from TRC and Probe returned on October 8, 2020, to install 17 soil borings and collect soil samples within the limits of construction near the R-40-706 and R-40-707 retaining walls to delineate hazardous lead soils that were identified during the previous sampling event. Five borings (B-1A through B-5A) were installed to a depth of 6 ft bgs near R-40-706, immediately adjacent to previously installed borings B-1 through B-5 to provide additional vertical delineation of lead contaminated soil. B-9 through B-17 were installed to a depth of 6 ft bgs. These step-out borings were installed to provide additional horizontal and vertical delineation of lead contaminated soils. Borings B-18 through B-20 were installed in the area of R-40-707 and the proposed storm sewer to a depth of 4 ft bgs. Soil samples were collected from various depth intervals at each boring and submitted for laboratory analysis. Soils encountered in borings B-1A through B-5A, and B-9 through B-20 consisted predominately of fill soils (brown clay, sandy clay, silt, sand, sand and gravel) with intermittent layers of industrial fill. Saturated soils were not encountered. PID responses were not detected in soil collected from any of the borings installed at this location. The borings were immediately abandoned following sample collection. Sample depths, PID readings, and analytical results are summarized in Table 1. Sample locations, temporary soil stockpile location and the Cemetery excavation area, and area of hazardous lead are shown on Figures 2 and 3. Soil borings were abandoned following sample collection and abandonment forms are included in Appendix D.

2.3 Sediment Sampling Objectives

TRC developed a Sediment Sampling Plan describing the proposed sampling methods, locations, and laboratory analytical program, and submitted the plan to the WDNR on August 21, 2019, for concurrence. WDNR responded with comments and a revision was issued to WDNR on August 26, 2019.

The Sediment Sampling Plan reflected the potential management options for sediment removed during construction of the bridge. Known impacts for this stretch of the Milwaukee River are PAHs, PCBs, and unspecified metals. Surplus sediment material, or material that exhibits potential contaminants will be transported and disposed off-site at a WDNR-licensed landfill that accepts sediment.

Based on this anticipated management approach, the objectives of the sediment sampling on the Milwaukee River were as follows:

- Characterize the sediment encountered within the project area.
- Analyze sediment samples from each excavation area to characterize the material for disposal as either common excavation or as impacted sediments requiring landfill disposal.

2.4 Sediment Sampling

On August 28, 2020, sediment samples were collected south of the I-43 bridge over the Milwaukee River, where the water depth was approximately 3 to 4 ft. Sediment sample locations were accessed via wading due to shallow water depths and limited access to launch a boat.

Prior to performing sediment cores, each location was probed with rebar to determine sediment thicknesses and material types. The rebar was advanced until the target depth, significant resistance, or refusal, was encountered.

As determined by the rebar probing, soft sediment was present at locations P-1, P-2, P-3, and P-4, although only minimal thickness was observed. Sediment samples were collected continuously by inserting clear polyvinyl chloride (PVC) tubing until refusal (approximately 1 ft) in the soft sediment. The tubes were caped to provide suction prior to removing the sample. The core samples were then transferred to clear plastic baggies for logging and screening before preparing sample containers. At locations where this method did not generate enough sediment volume for sampling, or where stiffer sediments were encountered (P-3 and P-4), a hand auger was used to collect additional sediment sample volume. There were not any non-native materials (i.e., foundry sand, construction debris, industrial fill, etc.) observed in any of the sediment core locations. Sediment sample logs are included in Appendix D.

Samples were prepared from the sediment cores at P-1, P-2, P-3, and P-4 for waste characterization analysis. As there was no evidence of contamination, samples were collected from 0-12 inches below the sediment water interface. Each sample was prepared by removing cobbles, coarse gravel, sticks, and other large organics from the sediment core. VOC samples for laboratory analysis were then collected from the core. Following the VOC sample collection, the remaining sediment was homogenized, and a sample was collected from each core for the list of parameters included on Table 2.

On various dates throughout May 2020, WisDOT's geotechnical driller conducted borings in and adjacent to the Milwaukee River. Geotechnical borings located at Waypoint 2 (B-2), Waypoint 3 (B-3), and Waypoint 10 (B-12) were advanced through the I-43 bridge deck over the Milwaukee River. No samples were collected for analysis from these boring locations due to minimal recovery of sediment from the split spoon samplers.

2.5 Investigation-Derived Waste (IDW)

Investigation-derived waste (IDW) generated during this site investigation includes excess soil cuttings from soil borings. Limited excess soil cuttings were generated during the sediment sampling, geotechnical drilling and archaeological investigation. IDW was containerized in 5-gallon buckets, labeled, and temporarily stored at the local TRC Brookfield office pending analytical results and disposal. These wastes will be disposed by Veolia under the statewide contract with the WisDOT.

2.6 Soil Analytical Results

Soil samples were submitted to Eurofins TestAmerica. All soil samples were analyzed for PAHs and lead. Samples collected along the slope below the I-43 bridge were analyzed for VOCs, PCBs, and other Resource Conservation and Recovery Act (RCRA) metals, and select samples were analyzed for DRO and gasoline range organics (GRO). The laboratory reports are included in Appendix E, and the results are summarized in Table 1. Table 1 compares the results to the NR 720 RCLs and 40 CFR §261 TCLP hazardous waste regulatory levels in order to determine soil disposal requirements. Hazard index and cancer risk calculations are included in Appendix F.

Samples that exceeded twenty-times the TCLP hazardous waste regulatory level of 5.0 mg/L for lead were analyzed for TCLP lead. Of the samples analyzed for TCLP lead, B-3 (0-2) and B-9 (0-2) were above the 5.0 mg/L level and as a result will require hazardous waste disposal. The remaining samples were less than the 5.0 mg/L level and will not require hazardous waste disposal. The area of hazardous lead soil is shown on Figures 2 and 3.

The results from the soil sampling indicate contaminated soil is present within the limits of construction. Soil with contamination exceeding NR 720 RCLs was encountered at the following locations:

- **GP-01:** Direct contact RCL exceedances for benzo(a)pyrene.
- **GP-02:** Direct contact RCL exceedances for benzo(a)anthracene, benzo(a)pyrene, and dibenz(a,h)anthracene. Groundwater pathway RCL exceedances for benzo(a)pyrene and chrysene.
- **GP-03:** Direct contact RCL exceedances for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Groundwater pathway RCL exceedances for benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and lead.
- **GP-04:** Direct contact RCL exceedances for benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3,-cd)pyrene. Groundwater pathway RCL exceedances for benzo(a)pyrene, benzo(b)fluoranthene, chrysene, fluoranthene, pyrene, and lead.
- **GP-05:** Direct contact RCL exceedance for benzo(a)pyrene. Groundwater pathway RCL exceedance for chrysene.
- **GP-07:** Direct contact RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene.
- **GP-08:** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedance of chrysene.
- **GP-09:** Direct contact RCL exceedances of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and lead.
- **GP-10:** Direct contact RCL exceedances of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene.
- **GP-11:** Direct contact RCL exceedances of benzo(a)pyrene, and benzo(b)fluoranthene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, and lead.
- **S-1 (0-1):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of chrysene, selenium, and silver.
- **S-1R (2-4):** Groundwater pathway RCL exceedance of silver.
- **S-2 (0-1):** Direct contact RCL exceedance of benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and PCB Aroclor-1248. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, total PCBs, selenium, and silver.
- **S-2R (1'-20"):** Groundwater pathway RCL exceedance of silver.

- **S-3 (0-1):** Direct contact RCL exceedances of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, and dibenz(a,h)anthracene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, lead, and silver.
- **S-4 (0-1):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of chrysene, lead, selenium, and silver.
- **S-5 (0-1):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, lead, selenium, and silver.
- **S-5 (2-4):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of chrysene and silver.
- **S-6 (0-1):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of benzo(b)fluoranthene, chrysene, lead, and silver.
- **S-6 (2-4):** Groundwater pathway RCL exceedance of silver.
- **S-7 (0-1):** Groundwater pathway RCL exceedance of silver.
- **S-7 (2-4):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of chrysene and silver.
- **Waypoint 9 (2-4):** Groundwater pathway RCL exceedances of methylene chloride, lead, and silver.
- **SS-P-01:** Direct contact RCL exceedance of arsenic. Groundwater pathway RCL exceedance of lead.
- **SS-P-02:** Groundwater pathway RCL exceedance of lead.
- **SS-P-03:** Groundwater pathway RCL exceedance of lead.
- **SS-P-05:** Groundwater pathway RCL exceedance of lead.
- **SS-P-06:** Groundwater pathway RCL exceedance of lead.
- **SS-P-07:** Groundwater pathway RCL exceedance of lead.
- **SS-P-09:** Groundwater pathway RCL exceedance of lead.
- **SS-P-10:** Direct contact RCL exceedance of arsenic.
- **B-1 (0-2):** Direct contact RCL exceedance of benzo(a)pyrene, benzo(b)fluoranthene, dibenz(a,h)anthracene, and lead. Groundwater pathway RCL exceedance of chrysene.
- **B-1A (2-4)**: Groundwater pathway RCL exceedance of lead.
- **B-2 (0-2):** Direct contact RCL exceedance of benzo(a)pyrene and arsenic. Groundwater pathway RCL exceedance of chrysene and lead.
- **B-2a (2-4):** Groundwater pathway RCL exceedance of lead.
- **B-3 (2-4):** Direct contact RCL exceedance of benzo(b)fluoranthene, arsenic, and lead. Groundwater pathway RCL exceedance of chrysene, barium, cadmium, and selenium.
- **B-3a (0-2):** Direct contact RCL exceedance of lead.
- **B-3a (4-6):** Direct contact RCL exceedance of lead.
- **B-4 (2-4):** Direct contact RCL exceedance of arsenic. Groundwater pathway RCL exceedance off selenium.

- **B-4a (0-2):** Direct contact RCL exceedance of lead.
- **B-9 (0-2):** Direct contact RCL exceedance of lead.
- **B-5 (0-2):** Direct contact RCL exceedance of benzo(a)pyrene, arsenic, and lead. Groundwater pathway RCL exceedance of benzo(b)fluoranthene, chrysene, mercury, cadmium, and selenium.
- **B-7 (2-4):** Groundwater pathway RCL exceedance of lead.
- **B-7 (8-10):** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedance of lead.
- **B-8 (0-2):** Direct contact RCL exceedance of arsenic.
- **B-10 (0-2):** Groundwater pathway RCL exceedance of lead.
- **B-11 (0-2):** Direct contact RCL exceedance of lead.
- **B-12 (0-2):** Groundwater pathway RCL exceedance of lead.
- **B-12 (2-4):** Groundwater pathway RCL exceedance of lead.
- **B-13 (0-2):** Groundwater pathway RCL exceedance of lead.
- **B-13 (2-4):** Direct contact RCL exceedance of lead.
- **B-14 (0-2):** Direct contact RCL exceedance of lead.
- **B-14 (4-6):** Direct contact RCL exceedance of lead.
- **B-15 (0-2):** Groundwater pathway RCL exceedance of lead.
- **B-16 (2-4):** Direct contact RCL exceedance of lead.
- **B-16 (4-5.5):** Direct contact RCL exceedance of lead.
- **B-17 (0-2):** Groundwater pathway RCL exceedance of lead.
- **B-17 (2-4):** Direct contact RCL exceedance of lead.
- **B-19 (0-2):** Direct contact RCL exceedance of lead. Groundwater pathway RCL exceedance of benzo[b]fluoranthene, chrysene, and dibenz(a,h)anthracene.
- **B-19 (2-4):** Direct contact RCL exceedance of arsenic and lead. Groundwater pathway RCL exceedance of benzo[b]fluoranthene, and chrysene
- **B-20 (0-2):** Direct contact RCL exceedance of arsenic and lead. Groundwater pathway RCL exceedance of chrysene, mercury, and cadmium.
- **B-20 (2-4):** Direct contact RCL exceedance of arsenic. Groundwater pathway RCL exceedance of mercury.

Potentially contaminated soil is also present at GP-6, GP-12, and GP-13. The samples collected from these locations did not have concentrations of constituents that exceed NR 700 RCLs; however, the soil present in the ROW underneath and adjacent to I-43 at this location (former CMC site) has been identified as imported fill soil from various unknown sources. This material was previously classified as “clean”; however, the surrounding soil samples collected during this investigation suggest that this material contains lead and PAHs above NR 700 RCLs and should be managed as contaminated.

The extents of the soil contamination within the limits of construction are shown on Figures 2, 3, and 4. The extents of contamination were defined based on the results of the Phase 2.5 sampling and historical results from previous site investigations.

2.7 Sediment Analytical Results

Sediment samples were submitted to Eurofins TestAmerica for PAHs, PCBs, metals by EPA 6010, VOCs, pesticides, reactive cyanide, reactive sulfide, and chlorine. The laboratory reports are included in Appendix E, and the results are summarized in Table 3. Table 3 compares the results to the NR 720 RCLs and 40 CFR §261 TCLP hazardous waste regulatory levels in order to determine sediment disposal requirements. Hazard index and cancer risk calculations are included in Appendix F.

Because sample P-2 exceeded twenty-times the TCLP hazardous waste regulatory level of 5.0 mg/L, the sample was analyzed for TCLP lead. The TCLP lead result of 0.0087 J mg/L was significantly below the 5.0 mg/L level, so sediments will not require hazardous waste disposal.

The results from the sediment sampling indicate contaminated sediments are present within the limits of construction. Sediment with contamination exceeding NR 720 RCLs was encountered at the following locations:

- **P-1:** Direct contact RCL exceedances of benzo(a)pyrene, PCB Aroclor-1242, and total PCBs. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, total PCBs, and selenium.
- **P-2:** Direct contact RCL exceedances of benzo(a)pyrene, PCB Aroclor-1242, and total PCBs. Groundwater pathway RCL exceedances of benzo(a)pyrene, benzo(b)fluoranthene, chrysene, total PCBs, and lead.
- **P-3:** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of chrysene and total PCBs.
- **P-4:** Direct contact RCL exceedance of benzo(a)pyrene. Groundwater pathway RCL exceedances of benzo(b)fluoranthene, chrysene, total PCBs, cadmium, and selenium.

The extents of the sediment contamination within the limits of construction are shown on Figure 4. All sediments removed from the Milwaukee River for I-43 construction will be considered contaminated.

2.8 Notice of Release

The impacts observed during this phase 2.5 investigation at the existing BRRTS site (Former CMC Glendale Yard, #02-41-520674), and the Milwaukee River were previously identified and responsible parties are listed for these impacts; therefore, a Notification of Hazardous Substances Discharge Form (WDNR Form 4400-225) was not completed for these sites. The soil samples collected from the investigation at the Evergreen Cemetery and from the ROW adjacent to 4189 N. Port Washington Avenue contain NR 720 RCL exceedances, as such Notification of Hazardous Substances Discharge Forms will be submitted to the WDNR.

3.0 Conclusions and Recommendations

3.1 Contaminated Soil Management

Contaminated soil is present within the limits of construction at the following locations:

- Station 940+50 to 944+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. There is an area within this location from 941+85 to 943+00 with TCLP (toxicity characteristic leaching procedure) – hazardous waste lead that likely will require hazardous waste disposal. The estimated volume of PAH- and metals-contaminated soil to be excavated at this location is 3,431 cubic yards (approximately 5,833 tons) of which approximately 143 tons will be considered TCLP–hazardous waste lead and 5,690 tons will be considered non-hazardous. Incidental to construction, within the limits stated above, an additional 1,489 tons of TCLP-hazardous waste lead soil will require excavation and disposal.
- Station 944+80 to 953+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 20 ft bgs. The estimated volume of PAH- and lead-contaminated soil to be excavated at this location is 685 cubic yards (approximately 1,165 tons).
- Station 953+80 to 955+00, from construction limits left to the reference line. Depths of contamination range from ground surface to 12 ft bgs. The estimated volume of metals-contaminated soil to be disposed at this location is 5,539 cubic yards (approximately 9,416 tons).
- Station 980+75 to 982+00, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. The estimated volume of PAH-, PCB-, and metals-contaminated soil to be excavated at this location is 334 cubic yards (approximately 568 tons).

TRC recommends that soil excavated at the locations listed above be field-screened by an environmental consultant during excavations for the reconstruction of I-43:

- Soil with significant metals, PAH, or PCB contamination should be landfilled at a WDNR-licensed disposal facility. Soil will be considered to have significant contamination if it exhibits significant odor, staining, and/or elevated PID readings (for example, PID readings greater than 10 ppm), or identified with laboratory detection.
- Soil exhibiting low-level contamination based on field-screening (for example, PID readings less than 10 ppm for petroleum contamination), or based on laboratory analytical results, will be considered suitable for reuse as backfill on the project.

TRC estimates approximately 16,855 tons of soil will require off-site landfill disposal.

3.2 Contaminated Sediment Management

Contaminated sediment is present within the limits of construction at the following location:

- Station 978+50 to 980+75, from construction limits left to construction limits right. Depths of contamination range from the sediment surface to bedrock (0-2 ft below the sediment surface). The estimated volume of PAH-, PCB-, and metal-contaminated sediment to be excavated at this location is 201 cubic yards (approximately 342 tons).

All excavated sediment will require disposal as direct-landfill at a WDNR-licensed disposal facility. TRC estimates approximately 342 tons of sediment will require off-site disposal as direct landfilled material.

If required, sediment dewatering will be conducted in accordance with standard best management practices and will comply with the requirements of all applicable state and federal permits. Filtered water from dewatered sediments from the locations described above can be discharged back into the body of water from which it was removed.

3.3 Conclusions

If determined to be geotechnically suitable by the project engineer, TRC recommends that approximately 8,030 tons of low-level PAH- and metals-contaminated soil excavated during construction from Station 944+80 to 949+10 be reused as backfill within the project corridor. If reuse is not possible on the project, then the soil will require landfill disposal at a WDNR-licensed facility.

- Special Provisions for management of contaminated soil and sediment are required (Appendix G). TRC estimates approximately 16,855 tons of soil and 342 tons of sediment will require off-site disposal as direct landfilled material and approximately 1,632 tons of TCLP- hazardous waste lead soil will require excavation and disposal.

A cap maintenance plan is in place for the Glendale Partners, LLC property located at 4400 N Green Bay Ave. (BRRTS #02-41-520674). TRC will prepare and submit a cap modification form to WDNR for this site. It is assumed the cap will be replaced in kind only in the locations it is removed during I-43 construction.

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				GP-01 (0-2)	GP-02 (0-2)	GP-03 (0-2)	GP-04 (0-2)	GP-05 (0-2)	GP-06 (0-2)	GP-07 (0-2)	GP-08 (0-2)	GP-09 (0-2)	GP-10 (0-2)	GP-11 (0-2)	GP-12 (14-15)	GP-13 (14-15)
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019	08/07/2019
PID Readings	-	-	-	-	1.0	1.7	4.6	7.1	5.9	4.2	4.2	7.0	7.1	12.4	6.1	9.0	9.9
WI Gasoline Range Organics (mg/Kg)	-	-	-	-	--	--	< 0.58	0.70 J	--	--	--	< 0.63	--	8.5	< 0.62	2.1	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-	--	--	24	820	--	--	--	2.4 J	--	30	58	11	--
Volatiles (ug/Kg)																	
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	2.6	61,800	1,150,000		--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	3,960	260,000	260,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Other VOCs	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (ug/Kg)																	
1-Methylnaphthalene	-	17,600	72,700	-	< 9.1	16 J	17 J	< 430	< 8.9	< 9.2	< 8.6	< 8.9	22 J	18 J	22 J	< 8.7	< 8.6
2-Methylnaphthalene	-	239,000	3,010,000	-	< 6.9	13 J	14 J	< 330	< 6.7	< 7.0	< 6.5	< 6.7	20 J	20 J	21 J	< 6.6	< 6.5
Acenaphthene	-	3,590,000	45,200,000	-	< 6.7	36	150	5200	< 6.6	7.8 J	47	< 6.6	98	80	57	< 6.4	9.2 J
Acenaphthylene	-	-	-	-	17 J	9.5 J	31 J	530 J	25 J	< 5.0	35	< 4.8	37	39	21 J	< 4.7	< 4.7
Anthracene	196,949.20	17,900,000	100,000,000	-	13 J	460 F2 F1	480	22000	30 J	< 6.3	160	32 J	260	340	230	6.5 J	6.9 J
Benzo[a]anthracene	-	1,140	20,800	-	110	**1500 F1 F2**	**1900**	**60000**	230	< 5.1	1100	140	**1800**	**2000**	1000	< 4.8	< 4.8
Benzo[a]pyrene	470	115	2,110	-	**140**	***1300 F1 F2***	***1700***	***49000***	**300**	< 7.3	***1100***	**140**	***2400***	***2000***	***990***	< 6.9	< 6.8
Benzo[b]fluoranthene	478.1	1,150	21,100	-	190	1800 F1 F2	***2100***	***59000***	420	< 8.2	***1700***	170	***3700***	***2900***	***1500***	< 7.7	< 7.6
Benzo[g,h,i]perylene	-	-	-	-	23 J	410 F1 F2	1000	27000	110	< 12	410	46	870	600	350	< 12	< 11
Benzo[k]fluoranthene	-	11,500	211,000	-	73	630 F2 F1	760	**22000**	150	< 11	560	92	1200	930	440	< 11	< 10
Chrysene	144.2	115,000	2,110,000	-	120	*1400 F1 F2*	*2000*	*58000*	*250*	28 J	*1300*	*170*	*2200*	*1900*	*1000*	< 9.8	< 9.6
Dibenz(a,h)anthracene	-	115	2,110	-	< 7.2	**140 F1**	**240**	**7300**	< 7.1	< 7.3	**120**	16 J	**240**	**200**	88	< 6.9	< 6.8
Fluoranthene	88,877.80	2,390,000	30,100,000	-	130	2400 F1 F2	3700	*140000*	300	27 J	2000	240	4300	3400	1800	11 J	25 J
Fluorene	14,829.90	2,390,000	30,100,000	-	< 5.3	50	150	6900	6.8 J	< 5.3	42	< 5.1	84	82	67	< 5.0	6.4 J
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-	35 J	430 F1	920	**24000**	110	< 9.8	400	57	860	630	330	< 9.3	< 9.2
Naphthalene	658.2	5,520	24,100	-	< 5.8	16 J	13 J	< 270	< 5.6	< 5.8	6.5 J	< 5.6	23 J	88	19 J	< 5.5	< 5.4
Phenanthrene	-	-	-	-	26 J	840 F2 F1	1900	80000	79	15 J	710	76	1400	1100	970	16 J	37
Pyrene	54,545.50	1,790,000	22,600,000	-	120	1900 F1 F2	3200	*110000*	390	27 J	2000	220	5200	4300	2300	16 J	20 J
Polychlorinated Biphenyls (mg/Kg)																	
Aroclor-1248	-	0.236	0.978	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/Kg)																	
Arsenic	0.584	0.677	3	8	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	27	400	800	52	14	33	*120*	*280*	22	8.5	27	12	*190*	32	*98*	9.5	6.8
Selenium	0.52	391	5,840	-	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	0.8491	391	5,840	-	--	--	--	--	--	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)																	
TCLP Lead	-	-	-	-	--	--	--	0.039 J	--	--	--	--	--	--	--	--	--
Hazard Index (Cumulative)[6]																	
Non-Industrial	-	1.0	-	-	NC	0.0753	0.3991	**3.5784**	0.0172	NC	0.0638	NC	0.6148	0.1168	0.3029	NC	NC
Industrial	-	-	1.0	-	NC	0.0060	0.1580	0.5807	0.0014	NC	0.0051	NC	0.2487	0.0094	0.1272	NC	NC
Cancer Risk (Cumulative)[6]																	
Non-Industrial	-	1.00E-05	-	-	NC	**1.8E-05**	**2.1E-05**	**6.2E-04**	3.3E-06	NC	**1.6E-05**	NC	**2.9E-05**	**2.4E-05**	**1.2E-05**	NC	NC
Industrial	-	-	1.00E-05	-	NC	1.6E-06	1.2E-06	**3.4E-05**	1.8E-07	NC	1.6E-06	NC	1.6E-06	1.3E-06	6.5E-07	NC	NC

Notes:
1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
13. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
14. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
15. 'Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).

Footnotes:
(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Created by: A. Enright 9/10/2019
Checked by: A. Sobbe 9/12/2019
Updated by: A. Enright 9/19/2019; 11/12/2019; 12/17/2019; 1/3/2020; 7/6/2020
Updates checked by: L. Hoerning 9/23/2019; A. Sobbe 1/7/2020; L. Hoerning 7/7/2020

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				S-1 (0-1)	S-1R (2-4)	S-2 (0-1)	S-2R (1'-20")	S-3 (0-1)	S-4 (0-1)	S-5 (0-1)	S-5 (2-4)	S-6 (0-1)	S-6 (2-4)	S-7 (0-1)	S-7 (2-4)	Waypoint 9 (2-4)
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]	08/28/2019	11/27/2019	08/28/2019	11/27/2019	08/28/2019	08/28/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	11/27/2019	5/21/2020
PID Readings	-	-	-	-	--	0.3	--	0.4	--	--	0.3	0	0.8	0.3	0.6	0.3	1.6
WI Gasoline Range Organics (mg/Kg)	-	-	-	-	--	--	--	--	--	--	--	--	--	1.4 J	--	0.78 J	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-	4.0 J	--	--	--	--	--	--	--	--	<1.8	--	2.7 J	--
Volatiles (ug/Kg)																	
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-	<22	<24	<19	<20	<24	<24	< 27	< 22	< 27	< 23	30 J	< 22	<22
Ethylbenzene	1,570	8,020	35,400	-	<11	<12	<10	<10	<12	<12	19	< 11	< 14	< 12	38	< 11	12 J
Methylene Chloride	2.6	61,800	1,150,000		<100	<110	<89	<92	<110	<110	<120	<100	<130	<100	<90	<98	*240 J*
Toluene	1,107.2	818,000	818,000	-	<9.1	<10	<8.0	<8.3	<10	<9.7	84	< 9.2	< 11	< 9.3	180	< 8.8	<8.9
Xylenes, Total	3,960	260,000	260,000	-	<14	<15	<12	<12	<15	<14	< 16	< 14	< 17	< 14	170	< 13	<13
Other VOCs	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polycyclic Aromatic Hydrocarbons (ug/Kg)																	
1-Methylnaphthalene	-	17,600	72,700	-	< 8.9	< 9.5	< 40	< 8.4	< 18	< 26	< 9.7	< 9.1	< 10	< 9.0	< 8.5	< 9.2	--
2-Methylnaphthalene	-	239,000	3,010,000	-	< 6.7	< 7.1 F1	< 30	< 6.4	14 J	< 19	7.8 J	< 6.9	8.2 J	< 6.8	< 6.4	< 6.9	--
Acenaphthene	-	3,590,000	45,200,000	-	< 6.5	< 7.0	< 30	< 6.2	95	< 19	29 J	< 6.7	19 J	< 6.6	8.4 J	7.6 J	--
Acenaphthylene	-	-	-	-	9.7 J	11 J	25 J F1	< 4.6	39 J	23 J	35 J	22 J	21 J	14 J	15 J	15 J	--
Anthracene	196,949.20	17,900,000	100,000,000	-	15 J	15 J	74 J F1	< 5.8	350	28 J	88	30 J	47	130	29 J	27 J	--
Benzo[a]anthracene	-	1,140	20,800	-	180	65	670	7.2 J	**1400**	160	480	190	290	79	100	140	--
Benzo[a]pyrene	470	115	2,110	-	**190**	69	***870***	8.8 J	***1200***	**190**	***580***	**190**	**380**	81	110	**160**	--
Benzo[b]fluoranthene	478.1	1,150	21,100	-	310	100	***1600 F1***	< 7.5	***2000***	310	*890*	190	*570*	86	170	200	--
Benzo[g,h,i]perylene	-	-	-	-	120	48	470 F1	< 11	600	150	380	110	250	55	120	110	--
Benzo[k]fluoranthene	-	11,500	211,000	-	160	38 J	530 F1	13 J	840	73 J	240	99	180	49	68	140	--
Chrysene	144.2	115,000	2,110,000	-	*210*	87	*990*	18 J	*1600*	*230*	*680*	*210*	*420*	97	120	*170*	--
Dibenz(a,h)anthracene	-	115	2,110	-	29 J	13 J	**120 J F1**	< 6.7	**130**	< 20	100	37	49	< 7.1	28 J	20 J	--
Fluoranthene	88,877.80	2,390,000	30,100,000	-	240	120	1000	9.7 J	2100	310	960	330	710	120	210	270	--
Fluorene	14,829.90	2,390,000	30,100,000	-	7.3 J	< 5.5	29 J	< 4.9	110	< 15	28 J	7.8 J	15 J	7.4 J	11 J	10 J	--
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-	120	52	490 F1	< 9.0	630	140	360	97	220	52	93	100	--
Naphthalene	658.2	5,520	24,100	-	< 5.6	<6.0	< 26 F1	<5.3	16 J	< 16	13 J	<5.8	7.5 J	5.7 J	6.3 J	9.0 J	--
Phenanthrene	-	-	-	-	65	53	370 F1	6.7 J	1500	100	450	130	240	38	110	120	--
Pyrene	54,545.50	1,790,000	22,600,000	-	220	120	2000 F1	13 J	2800	390	860	420	560	120	160	240	--
Polychlorinated Biphenyls (mg/Kg)																	
Aroclor-1248	-	0.236	0.978	-	< 0.071	<7.7	**0.59**	<7.0	< 0.076	< 0.076	< 8.2	< 7.4	< 8.3	< 7.3	< 6.8	< 7.3	<7.0
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-	< 0.035	<3.8	***0.59***	<3.4	< 0.037	< 0.037	< 4.0	< 3.6	< 4.0	< 3.5	< 3.3	< 3.6	ND
Metals (mg/Kg)																	
Arsenic	0.584	0.677	3	8	2.9	2.7	2.1	2.1	4.1	3.1	3.5	2.0	3.5	2.7	2.8	2.3	4.3
Mercury	0.208	3.13	3.13	-	0.028	0.063	0.059	0.013 J	0.037	0.054	0.074	0.061	0.062	0.080	0.030	0.074	0.019
Barium	164.8	15,300	100,000	364	20	50 B	60	8.9 B	53	40	54 B	27 B	71 B	34 B	22 B	41 B	36
Cadmium	0.752	71.1	985	1	0.39 B	0.26 B	0.66 B	0.066 J B	0.55 B	0.59 B	0.46 B	0.16 J B	0.63 B	0.26 B	0.27 B	0.30 B	0.2 JB
Chromium	360,000	-	-	44	8.8	20	18	5.6	19	14	17	12	18	11	9.5	18	15
Lead	27	400	800	52	36	11 B	51	6.0 B	*130*	*140*	*130 B*	7.5 B	*150 B*	12 B	28 B	14 B	*190*
Selenium	0.52	391	5,840	-	*0.71 J*	< 0.68	*1.3*	< 0.57	< 0.60	*0.76 J*	*0.83 J*	< 0.64	< 0.71	< 0.55	< 0.53	< 0.63	<0.63
Silver	0.8491	391	5,840	-	*1.1*	*1.4*	*1.3*	0.63	*2.4*	*1.9*	*1.4*	*1.0*	*2.1*	*1.2*	*1.0*	*1.4*	*3.2*
TCLP Metals (mg/L)																	
TCLP Lead	-	-	-	-	--	--	--	--	--	<0.0075	--	--	0.011 J	--	--	--	-
Hazard Index (Cumulative)[6]																	
Non-Industrial	-	1.0	-	-	NC	NC	0.0608	NC	0.4036	0.3664	0.369	NC	NC	NC	NC	NC	NC
Industrial	-	-	1.0	-	NC	NC	0.0054	NC	0.1691	0.1768	0.1667	NC	NC	NC	NC	NC	NC
Cancer Risk (Cumulative)[6]																	
Non-Industrial	-	1.00E-05	-	-	NC	NC	**1.4E-05**	NC	**1.5E-05**	1.9E-06	7.5E-06	NC	NC	NC	NC	NC	NC
Industrial	-	-	1.00E-05	-	NC	NC	1.2E-06	NC	8.3E-07	1.0E-07	4.1E-07	NC	NC	NC	NC	NC	NC

Notes:

1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
13. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
14. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
15. 'Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).

Footnotes:

(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Created by: A. Enright 9/10/2019
Checked by: A. Sobbe 9/12/2019
Updated by: A. Enright 9/19/2019; 11/12/2019; 12/17/2019; 1/3/2020; 7/6/2020
Updates checked by: L. Hoerning 9/23/2019; A. Sobbe 1/7/2020; L. Hoerning 7/7/2020

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				SS-P-01 (13)	SS-P-02 (2)	SS-P-03 (4)	SS-P-04 (7)	SS-P-05 (2)	SS-P-06 (5)	SS-P-07 (8)	SS-P-08 (11)	SS-P-09 (4)	SS-P-10 (3)	SS-P-11 (2)	SS-P-12 (7)
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]	06/16/2020	06/15/2020	06/15/2020	06/15/2020	06/15/2020	06/15/2020	06/15/2020	06/16/2020	06/15/2020	06/15/2020	06/15/2020	06/15/2020
PID Readings	-	-	-	-	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WI Gasoline Range Organics (mg/Kg)	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles (ug/Kg)																
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	2.6	61,800	1,150,000		--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	3,960	260,000	260,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Other VOCs	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (ug/Kg)																
1-Methylnaphthalene	-	17,600	72,700	-	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	-	239,000	3,010,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	-	3,590,000	45,200,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	196,949.20	17,900,000	100,000,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	-	1,140	20,800	-	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	470	115	2,110	-	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	478.1	1,150	21,100	-	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	-	11,500	211,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	144.2	115,000	2,110,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	-	115	2,110	-	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	88,877.80	2,390,000	30,100,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	14,829.90	2,390,000	30,100,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	658.2	5,520	24,100	-	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	54,545.50	1,790,000	22,600,000	-	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (mg/Kg)																
Aroclor-1248	-	0.236	0.978	-	--	--	--	--	--	--	--	--	--	--	--	--
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/Kg)																
Arsenic	0.584	0.677	3	8	***9.1***	6.7	7.1	5.8	6.7	6.2	7.7	7.3	7.9	***8.7***	6.2	6.5
Mercury	0.208	3.13	3.13	-	0.038	0.033	0.032	0.035	0.029	0.033	0.033	0.029	0.031	0.032	0.035	0.027
Barium	164.8	15,300	100,000	364	48	42	41	41	54	45	59	51	46	55	52	46
Cadmium	0.752	71.1	985	1	0.23	0.26	0.18 J	0.18 J	0.30	0.21 J	0.24	0.18 J	0.22	0.20	0.24	0.22 J
Chromium	360,000	-	-	44	18	19	18	16	20	19	20	21	20	22	18	19
Lead	27	400	800	52	35	*120*	*98*	19	*110*	*76*	*110*	21	*86*	26	26	39
Selenium	0.52	391	5,840	-	< 0.67	< 0.67	< 0.67	< 0.75	< 0.60	< 0.65	< 0.64	< 0.64	< 0.62	< 0.58	< 0.61	< 0.67
Silver	0.8491	391	5,840	-	< 0.15	< 0.15	< 0.15	< 0.16	< 0.13	< 0.14	< 0.14	< 0.14	< 0.14	< 0.13	< 0.13	< 0.15
TCLP Metals (mg/L)																
TCLP Lead	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hazard Index (Cumulative)[6]																
Non-Industrial	-	1.0	-	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Industrial	-	-	1.0	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Cancer Risk (Cumulative)[6]																
Non-Industrial	-	1.00E-05	-	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
Industrial	-	-	1.00E-05	-	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC

Notes:
1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
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16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).

Footnotes:
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(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Created by: A. Enright 9/10/2019
Checked by: A. Sobbe 9/12/2019
Updated by: A. Enright 9/19/2019; 11/12/2019; 12/17/2019; 1/3/2020; 7/6/2020
Updates checked by: L. Hoerning 9/23/2019; A. Sobbe 1/7/2020; L. Hoerning 7/7/2020

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				B-1 (0-2)	B-2 (0-2)	B-3 (2-4)	B-4 (2-4)	B-5 (0-2)	B-6 (2-4)	B-6 (6-8)	B-7 (2-4)	B-7 (8-10)	B-8 (0-2)	B-8 (6-8)	Trip Blank
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020	08/20/2020
PID Readings	-	-	-	-	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.0	
WI Gasoline Range Organics (mg/Kg)	-	-	-	-	--	1.3 J	--	1.1 J	--	--	--	< 0.68	--	--	--	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-	--	42 B	--	32 B	--	--	--	9.0 B	--	--	--	--
Volatiles (ug/Kg)																
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-	< 25	< 24	< 24	< 25	< 27	< 21	< 24	< 24	< 25	< 22	< 24	< 18
Ethylbenzene	1,570	8,020	35,400	-	< 13	< 12	< 12	< 13	< 14	< 11	< 12	< 12	< 13	< 11	< 12	< 9.2
Methylene Chloride	2.6	61,800	1,150,000		--	--	--	--	--	< 96	< 110	< 110	< 110	< 100	< 110	< 82
Toluene	1,107.2	818,000	818,000	-	< 10	< 9.9	< 10	< 10	< 11	< 8.7	< 9.9	< 10	< 10	< 9.2	< 9.7	< 7.4
Xylenes, Total	3,960	260,000	260,000	-	< 16	< 15	190	< 16	< 16	< 13	< 15	< 15	< 16	< 14	< 14	< 11
Other VOCs	-	-	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polycyclic Aromatic Hydrocarbons (ug/Kg)																
1-Methylnaphthalene	-	17,600	72,700	-	52 J	59 J	84	130	35 J	< 8.9	< 9.4	< 9.6	< 9.8	< 9.1	< 9.4	--
2-Methylnaphthalene	-	239,000	3,010,000	-	61 J	73 J	94	140	50 J	< 6.7	< 7.1	< 7.2	< 7.4	< 6.9	< 7.1	--
Acenaphthene	-	3,590,000	45,200,000	-	100	13 J	9.6 J	< 7.2	21 J	< 6.5	< 6.9	< 7.0	7.2 J	< 6.7	< 6.9	--
Acenaphthylene	-	-	-	-	79	18 J	< 5.1	< 5.3	18 J	13 J	< 5.1	7.2 J	6.6 J	5.5 J	< 5.1	--
Anthracene	196,949.20	17,900,000	100,000,000	-	290	41	21 J	< 6.7	59	12 J	< 6.4	13 J	22 J	11 J	< 6.4	--
Benzo[a]anthracene	-	1,140	20,800	-	1100	240	110	26 J	220	81	32 J	97	120	83	< 5.2	--
Benzo[a]pyrene	470	115	2,110	-	***1400***	**230**	**130**	21 J	**310**	92	38	110	**130**	95	< 7.4	--
Benzo[b]fluoranthene	478.1	1,150	21,100	-	***2400***	350	240	26 J	*500*	130	50	150	190	130	< 8.3	--
Benzo[g,h,i]perylene	-	-	-	-	470	100	54	< 13	130	50	19 J	51	77	44	< 12	--
Benzo[k]fluoranthene	-	11,500	211,000	-	800	210	85	< 12	180	43	25 J	51	75	56	< 11	--
Chrysene	144.2	115,000	2,110,000	-	*1400*	*260*	*150*	30 J	*290*	83	39	100	120	88	< 10	--
Dibenz(a,h)anthracene	-	115	2,110	-	**150**	23 J	15 J	< 7.8	42	9.2 J	< 7.4	17 J	15 J	8.9 J	< 7.4	--
Fluoranthene	88,877.80	2,390,000	30,100,000	-	2600	570	280	39 J	580	170	84	220	280	170	< 7.1	--
Fluorene	14,829.90	2,390,000	30,100,000	-	92	12 J	11 J	< 5.6	17 J	< 5.1	< 5.4	7.2 J	7.0 J	< 5.3	< 5.4	--
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-	490	88	42	10 J	110	41	21 J	50	68	44	< 10	--
Naphthalene	658.2	5,520	24,100	-	69	49	52	80	38 J	< 5.6	< 5.9	< 6.0	< 6.1	< 5.8	< 5.9	--
Phenanthrene	-	-	-	-	1300	240	190	98	280	55	27 J	70	88	46	< 5.4	--
Pyrene	54,545.50	1,790,000	22,600,000	-	2300	360	190	27 J	570	110	51	150	180	130	< 7.6	--
Polychlorinated Biphenyls (mg/Kg)																
Aroclor-1248	-	0.236	0.978	-	--	--	--	--	--	--	--	--	--	--	--	--
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/Kg)																
Arsenic	0.584	0.677	3	8	7.1	***8.4***	***16***	***13***	***12***	5.6	7.0	6.1	7.2	***8.5***	5.9	--
Mercury	0.208	3.13	3.13	-	0.19	0.17	0.10	0.061	*0.35*	0.024	0.028	0.038	0.039	0.035	0.022	--
Barium	164.8	15,300	100,000	364	91	110	*1400*	97	330	36	45	73	59	63	27	--
Cadmium	0.752	71.1	985	1	0.96 B	0.85 B	*2.5 B*	0.44 B	*2.5 B*	0.35 B	0.37 B	0.50 B	0.46 B	0.47 B	0.31 B	--
Chromium	360,000	-	-	44	52	32	200	14	140	16	18	20	21	19	14	--
Lead	27	400	800	52	***520***	*200*	***4500***	37	***1800***	16	18	*58*	*53*	49	12	--
Selenium	0.52	391	5,840	-	< 0.63	< 0.62	*1.2*	*1.5*	*2.5*	< 0.62	< 0.61	< 0.60	< 0.66	< 0.63	< 0.61	--
Silver	0.8491	391	5,840	-	< 0.14	< 0.14	< 0.14	< 0.15	< 0.15	< 0.14	< 0.13	< 0.13	< 0.14	< 0.14	< 0.13	--
TCLP Metals (mg/L)																
TCLP Lead	-	-	-	-	0.061	--	**5.1**	--	0.035 J	--	--	--	--	--	--	--
Hazard Index (Cumulative)[6]																
Non-Industrial	-	1.0	-	-												
Industrial	-	-	1.0	-												
Cancer Risk (Cumulative)[6]																
Non-Industrial	-	1.00E-05	-	-												
Industrial	-	-	1.00E-05	-												

Notes:
1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
13. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
14. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
15. 'Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).

Footnotes:
(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Updated by: A. Enright 9/4/2020
Checked By: T. O'Connell 12/1/2020

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				TCLP Criteria	B-1a (2-4)	B-1a (4-6)	B-2a (2-4)	B-2a (4-6)	B-3a (0-2)	B-3a (4-6)	B-4a (0-2)	B-4a (4-6)	B-5a (2-4)	B-5a (4-6)	B-9 (0-2)	B-9 (2-4)	B-9 (4-6)	B-10 (0-2)	B-10 (2-4)	B-10 (4-6)	B-11 (0-2)	B-11 (2-4)	B-11 (4-6)	B-12 (0-2)	B-12 (2-4)	B-12 (4-6)
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]		10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020
PID Readings	-	-	-	-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
WI Gasoline Range Organics (mg/Kg)	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles (ug/Kg)																											
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	2.6	61,800	1,150,000			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	3,960	260,000	260,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other VOCs	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (ug/Kg)																											
1-Methylnaphthalene	-	17,600	72,700	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
2-Methylnaphthalene	-	239,000	3,010,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthene	-	3,590,000	45,200,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Acenaphthylene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Anthracene	196,949.20	17,900,000	100,000,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]anthracene	-	1,140	20,800	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[a]pyrene	470	115	2,110	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[b]fluoranthene	478.1	1,150	21,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[g,h,i]perylene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Benzo[k]fluoranthene	-	11,500	211,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chrysene	144.2	115,000	2,110,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Dibenz(a,h)anthracene	-	115	2,110	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene	88,877.80	2,390,000	30,100,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	14,829.90	2,390,000	30,100,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Naphthalene	658.2	5,520	24,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Phenanthrene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Pyrene	54,545.50	1,790,000	22,600,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polychlorinated Biphenyls (mg/Kg)																											
Aroclor-1248	-	0.236	0.978	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/Kg)																											
Arsenic	0.584	0.677	3	8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	27	400	800	52		*210 F2 V*	15	*210*	14	***6100***	***460***	***720***	23	8.9	18	***17000***	37	15	*140*	15	15	***490***	18	11	*280*	*300*	18
Selenium	0.52	391	5,840	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	0.8491	391	5,840	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)																											
TCLP Lead	-	-	-	-	5.0	0.022 J	--	0.12	--	4.9	0.067	0.26	--	--	--	**20**	--	--	0.0098 J	--	--	0.036 J	--	--	0.015 J	0.028 J	--
Hazard Index (Cumulative)[6]																											
Non-Industrial	-	1.0	-	-												**42.5**											
Industrial	-	-	1.0	-												21.25											
Cancer Risk (Cumulative)[6]																											
Non-Industrial	-	1.00E-05	-	-												0.00E+00											
Industrial	-	-	1.00E-05	-												0.00E+00											

Notes:
1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
13. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
14. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
15. 'Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
17. V = Serial Dilution exceeds the control limits

Footnotes:
(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Updated by: L. Auner, 10/23/2020
Checked By: T. O'Connell 12/1/2020

Table 1: Soil Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				TCLP Criteria	B-13 (0-2)	B-13 (2-4)	B-13 (4-6)	B-14 (0-2)	B-14 (2-4)	B-14 (4-6)	B-15 (0-2)	B-15 (2-4)	B-15 (4-6)	B-16 (0-2)	B-16 (2-4)	B-16 (4-5.5)	B-16 (5.5-6)	B-17 (0-2)	B-17 (2-4)	B-17 (4-6)	B-18 (0-2)	B-18 (2-4)	B-19 (0-2)	B-19 (2-4)	B-20 (0-2)	B-20 (2-4)
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]		10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020	10/08/2020
PID Readings	-	-	-	-		<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
WI Gasoline Range Organics (mg/Kg)	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
WI Diesel Range Organics (mg/Kg)	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Volatiles (ug/Kg)																											
1,2,4-Trimethylbenzene	1,378.7[7]	219,000	219,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methylene Chloride	2.6	61,800	1,150,000			--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Xylenes, Total	3,960	260,000	260,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Other VOCs	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Polycyclic Aromatic Hydrocarbons (ug/Kg)																											
1-Methylnaphthalene	-	17,600	72,700	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 8.6	< 8.9	140 J	530 J	80 J	< 9.5
2-Methylnaphthalene	-	239,000	3,010,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.5	< 6.7	240 J	1000 J	90	< 7.2
Acenaphthene	-	3,590,000	45,200,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.3	< 6.5	36 J	< 360	18 J	< 7.0
Acenaphthylene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.6	< 4.8	< 24	< 260	12 J	< 5.1
Anthracene	196,949.20	17,900,000	100,000,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.9	< 6.1	44 J	< 340	53	< 6.5
Benzo[a]anthracene	-	1,140	20,800	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.7	< 4.9	320	520 J	230	< 5.2
Benzo[a]pyrene	470	115	2,110	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.8	< 7.0	**240**	**390 J**	**200**	< 7.5
Benzo[b]fluoranthene	478.1	1,150	21,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 7.6	< 7.9	*580*	*850 J*	310	< 8.4
Benzo[g,h,i]perylene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 11	< 12	290	1800 J	100	< 13
Benzo[k]fluoranthene	-	11,500	211,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 10	< 11	120 J	< 590	130	< 11
Chrysene	144.2	115,000	2,110,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 9.6	< 9.9	*710*	*1300 J*	*310*	< 11
Dibenz(a,h)anthracene	-	115	2,110	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.8	< 7.0	**210**	< 390	51	< 7.5
Fluoranthene	88,877.80	2,390,000	30,100,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 6.5	< 6.7	290	780 J	460	< 7.2
Fluorene	14,829.90	2,390,000	30,100,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.9	< 5.1	170 J	900 J	32 J	< 5.5
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 9.1	< 9.4	120 J	< 520	58	< 10
Naphthalene	658.2	5,520	24,100	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 5.4	< 5.6	100 J	490 J	63	< 6.0
Phenanthrene	-	-	-	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 4.9	< 5.1	610	1400 J	320	< 5.4
Pyrene	54,545.50	1,790,000	22,600,000	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 7.0	< 7.2	390	760 J	470	< 7.7
Polychlorinated Biphenyls (mg/Kg)																											
Aroclor-1248	-	0.236	0.978	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Total Polychlorinated Biphenyls	0.0094	0.234	0.967	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Metals (mg/Kg)																											
Arsenic	0.584	0.677	3	8		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	7.2	5.2	5.4	***8.5***	***12***	***8.2***
Mercury	0.208	3.13	3.13	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.012 J	0.016 J	0.035	0.098	*0.53*	*0.054*
Barium	164.8	15,300	100,000	364		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32	28	63	160	340	55
Cadmium	0.752	71.1	985	1		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.060 J	0.14 J	0.61 B	1.2 B	*1.9 B*	< 0.040
Chromium	360,000	-	-	44		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	15	14	38	91	160	21
Lead	27	400	800	52		*350*	***420***	5.2	***450***	***710***	11	*200*	44 V	9.4	47	***480***	***770***	33	*140*	***3400***	17	12	8.8	***420***	***970***	***1600***	14
Selenium	0.52	391	5,840	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.63	< 0.62	< 0.59	1.1	< 0.72	< 0.65
Silver	0.8491	391	5,840	-		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	< 0.14	< 0.14	< 0.13	< 0.14	< 0.16	< 0.14
TCLP Metals (mg/L)																											
TCLP Lead	-	-	-	-	5.0	< 0.0075	0.037 J	--	0.054	0.12	--	< 0.0075	--	--	--	0.12	1.3	--	< 0.0075	0.13	--	--	--	0.074	0.78	0.33	--
Hazard Index (Cumulative)[6]																											
Non-Industrial	-	1.0	-	-																							
Industrial	-	-	1.0	-																							
Cancer Risk (Cumulative)[6]																											
Non-Industrial	-	1.00E-05	-	-																							
Industrial	-	-	1.00E-05	-																							

Notes:

1. PID = Photoionization Detector.
2. Semivolatile Organic Compounds analyzed using EPA Method 8270.
3. TCLP = Toxicity Characteristic Leaching Procedure.
4. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
5. mg/L = milligrams per liter (ppm).
6. - = Standard not established.
7. < or ND = Less than the detection limit.
8. -- = Sample not analyzed for this parameter.
9. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
10. B = Compound was found in the blank and sample.
11. F1 = MS and/or MSD recovery is outside acceptance limits.
12. F2 = MS/MSD RPD exceeds control limits.
13. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
14. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
15. 'Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
16. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
17. V = Serial Dilution exceeds the control limits

Footnotes:

(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).
(7) RCL for combined 1,2,4- and 1,3,5-trimethylbenzenes.

Updated by: L. Auner, 10/23/2020
Checked By: T. O'Connell 12/1/2020

Table 2: Sediment Characterization Disposal Analytical Program
Milwaukee River Bridge - Milwaukee River
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

ANALYTE	WASTE CHARACTERIZATION[1]
PAHs (EPA 8270 MSSV)	
PAHs	X
PCBs (EPA 8082)	
PCBs	X
Metals (EPA 6010/Mercury EPA 7471)	
Arsenic	X
Barium	X
Cadmium	X
Chromium	X
Lead	X
Mercury	X
Selenium	X
Silver	X
Copper	X
Nickel	X
Zinc	X
VOCs (EPA 8260)	
Benzene	X
Carbon tetrachloride	X
Chlorobenzene	X
Chloroform	X
1,2-Dichloroethane	X
1,1-Dichloroethylene	X
Methyl-ethyl-ketone	X
Tetrachloroethene	X
Trichlroethylene	X
Vinyl chloride	X
Pesticides/Herbicides (EPA 8081)	
Chlordane	X
Endrin	X
Heptachlor	X
Lindane	X
Methoxychlor	X
Toxaphene	X

Table 2: Sediment Characterization Disposal Analytical Program
Milwaukee River Bridge - Milwaukee River
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

ANALYTE	WASTE CHARACTERIZATION[1]
Semivolatiles (EPA 8270)	
o-Cresol	X
m,p-Cresols	X
Cresol	X
1,4-Dichlorobenzene	X
2,4-Dinitrotoluene	X
Hexachlorobenzene	X
Hexachlorobutadiene	X
Hexachloroethane	X
Nitrobenzene	X
Pentachlorophenol	X
Pyridine	X
2,4,5-Trichlorophenol	X
2,4,6-Trichlorophenol	X
Other	
Moisture content	X
Percent solids (SM 2540G)	X
Specific gravity (SM 2710F)	X
pH (EPA 9040)	X
Reactive cyanide (EPA 9014)	X
Reactive sulfide (SM 4500S2F)	X
Free Liquids (EPA 9095)	X
Chlorine (SW 9056A/SW 5050)	X
Flash Point (EPA 1010)	X

Notes:

1. The acceptance criteria for VOCs, SVOCs, and metals are based on TCLP concentrations. Total concentrations can be used if they are less than 20 times the TCLP acceptance criteria.

Table 3: Sediment Analytical Data
Summary of Analyzed Constituents
WisDOT ID#1228-22-01, I-43 Phase 2.5 Soil/Sediment TRC #341633.0000

Analytes[1]	Soil RCL NR 720[2]				P-1	P-2	P-3	P-4
	Groundwater Pathway[3]	Non-Industrial Direct Contact[4]	Industrial Direct Contact[4]	Background Threshold Value[6]	08/28/2019	08/28/2019	08/28/2019	08/28/2019
Volatiles (ug/Kg)								
All Volatiles	-	-	-	-	ND	ND	ND	ND
Polycyclic Aromatic Hydrocarbons (ug/Kg)								
1-Methylnaphthalene	-	17,600	72,700	-	< 9.9	< 19	52 J	< 10
2-Methylnaphthalene	-	239,000	3,010,000	-	< 7.4	19 J	52 J	10 J
Acenaphthene	-	3,590,000	45,200,000	-	51	100	34 J	23 J
Acenaphthylene	-	-	-	-	21 J	19 J	< 5.1	11 J
Anthracene	196,949.20	17,900,000	100,000,000	-	120	150	58	66
Benzo[a]anthracene	-	1,140	20,800	-	630	600	140	490
Benzo[a]pyrene	470	115	2,110	-	***620***	***570***	**130**	**440**
Benzo[b]fluoranthene	478.1	1,150	21,100	-	*1100*	*810*	200	*640*
Benzo[g,h,i]perylene	-	-	-	-	210	230	62	180
Benzo[k]fluoranthene	-	11,500	211,000	-	310	440	130	300
Chrysene	144.2	115,000	2,110,000	-	*880*	*770*	*190*	*550*
Dibenz(a,h)anthracene	-	115	2,110	-	39 J	100	< 7.5	< 7.9
Fluoranthene	88,877.80	2,390,000	30,100,000	-	1700	1700	330	1000
Fluorene	14,829.90	2,390,000	30,100,000	-	25 J	110	49	28 J
Indeno[1,2,3-cd]pyrene	-	1,150	21,100	-	230	300	61	190
Naphthalene	658.2	5,520	24,100	-	< 6.2	25 J	51	7.3 J
Phenanthrene	-	-	-	-	310	590	240	190
Pyrene	54,545.50	1,790,000	22,600,000	-	5100	2800	670	2100
Polychlorinated Biphenyls (mg/Kg)								
Aroclor-1242	-	0.235	0.972	-	**0.76**	**0.73**	0.180 J	0.190 J
Total Polychhlorinated Biphenyls	0.0094	0.234	0.967	-	***0.76***	***0.73***	*0.180 J*	*0.190 J*
Metals (mg/Kg)								
Arsenic	0.584	0.677	3	8	1.6	2.5	2.1	2.2
Mercury	0.208	3.13	3.13	-	0.025	0.014 J	0.030	0.023
Barium	164.8	15,300	100,000	364	18	23	23	20
Cadmium	0.752	71.1	985	1	0.28 B	0.33 B	0.33 B	*1.4 B*
Chromium	360,000	-	-	44	9.3	10	9.8	8.2
Copper	91.6	3,130	46,700	35	16	23	10	4.6
Lead	27	400	800	52	38	*100*	9.5	10
Nickel	13.0612	1,550	22,500	31	5.5	9.1	6.7	5.4
Selenium	0.52	391	5,840	-	*0.78 J*	< 0.61	< 0.60	*1.0 J*
Silver	0.8491	391	5,840	-	0.64	0.78	0.66	0.16 J
Zinc	-	23,500	100,000	150	38	78	68	310
TCLP Metals (mg/L)								
TCLP Lead	-	-	-	-	NS	0.0087 J	NS	NS
Hazard Index (Cumulative)[6]								
Non-Industrial	-	1.0	-	-	0.0436	0.2875	NC	0.0637
Industrial	-	-	1.0	-	0.0037	0.1281	NC	0.005
Cancer Risk (Cumulative)[6]								
Non-Industrial	-	1.00E-05	-	-	**1.1E-05**	1.0E-05	NC	5.8E-06
Industrial	-	-	1.00E-05	-	1.20E-06	1.2E-06	NC	4.7E-07

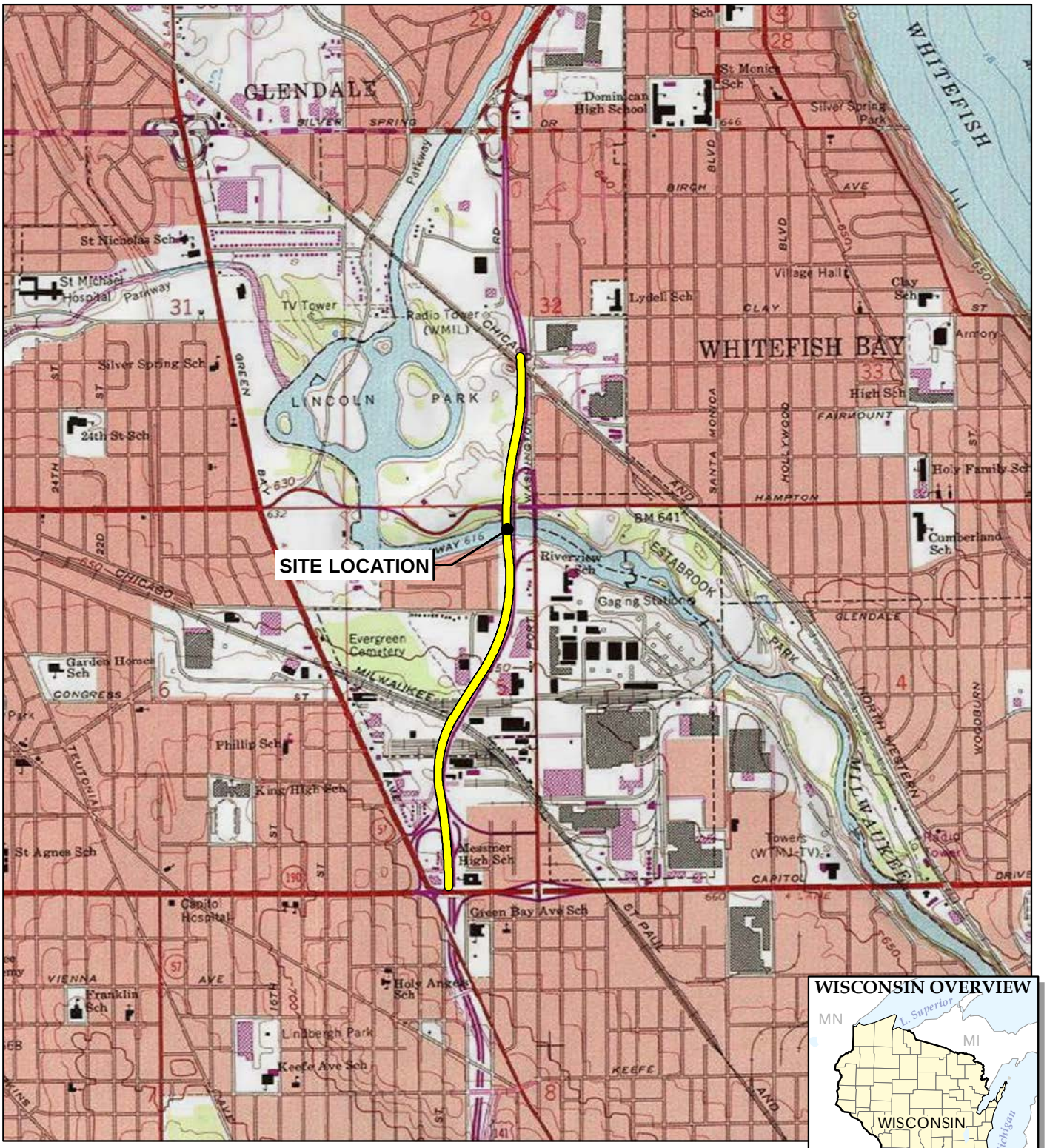
Created by: A. Enright 9/19/2019
Checked by: L. Hoerning 9/23/2019
Updated by: A. Enright 11/12/19
Updates checked by: A. Sobbe 1/7/2020

Notes:

1. Semivolatile Organic Compounds analyzed using EPA Method 8270.
2. mg/kg = milligrams per kilogram (ppm); µg/kg = micrograms per kilogram (ppb).
3. - = Standard not established.
4. < or ND = Less than the detection limit.
5. NS = Sample not analyzed for this parameter.
6. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
7. B = Compound was found in the blank and sample.
8. NC = Not calculated; samples with higher concentrations did not cause exceedances of Hazard Index/Cancer Risk standards, so values were not calculated for this sample.
9. Results in *Italics* indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Groundwater Pathway NR 720 RCL .
10. Results in **BOLD** indicate a detection (or potential detection if J-flagged) exceeding both the background threshold value and the Non-Industrial or Industrial NR 720 RCL.
11. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).

Footnotes:

(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(3) Value is the generic RCL for the groundwater pathway.
(4) Value is the generic RCL for exposure by direct contact.
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (December 2018 Update).



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 2,000 '
1:24,000

0 2,000 4,000 FEET

TRC

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TRC - GIS

PROJECT:

WISDOT #1228-22-01
I-43, CAPITAL DR. TO HAMPTON AVE./MILWAUKEE RIVER
GLENDALE, MILWAUKEE COUNTY, WISCONSIN

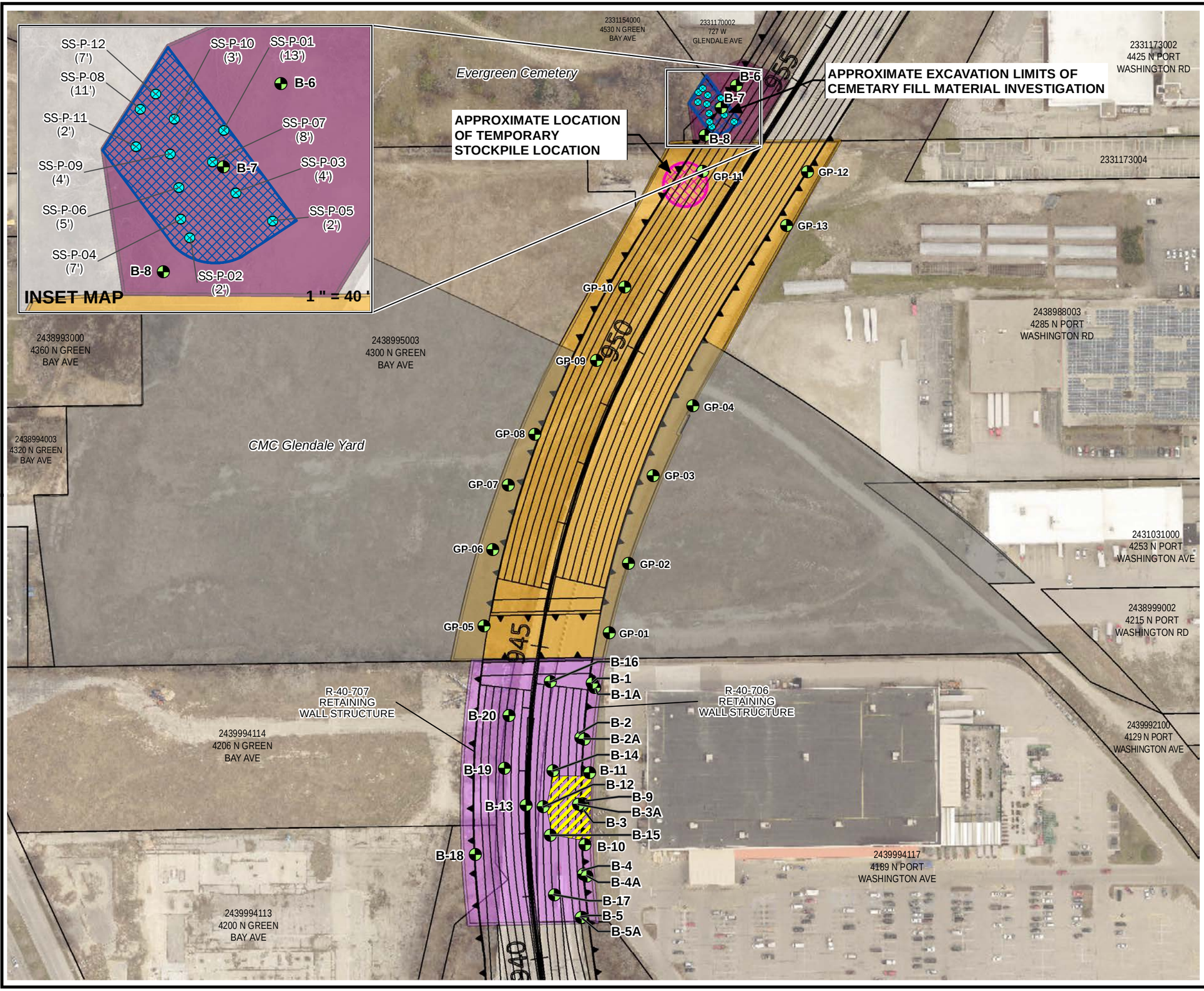
TITLE:

SITE LOCATION MAP

DRAWN BY:	A. ADAIR
CHECKED BY:	T. O'CONNELL
APPROVED BY:	B. BERGMANN
DATE:	JANUARY 2021
PROJ. NO.:	341633
FILE:	341633_001_SLM.mxd

FIGURE 1

S:\1-PROJECTS\WI_DOT\2019_341633_I43\341633_001_SLM.mxd -- Saved By: AADAIR on 1/18/2021, 14:09:20 PM



LEGEND

- GEOPROBE LOCATION
- GRAB SAMPLE
- APPROXIMATE LIMITS OF FILL REMOVAL
- APPROXIMATE STOCKPILE LOCATION
- CONTAMINATED SOIL FROM 0-4 FT BGS
- CONTAMINATED SOIL FROM 0-12 FT BGS
- CONTAMINATED SOIL FROM 0-20 FT BGS
- AREA OF HAZARDOUS LEAD SOILS
- AREA OF CMC GLENDALE YARD CAP TO BE MAINTAINED

NOTES

1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY GIS & LAND INFORMATION, (APRIL 2020).
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN SOUTH (US-SURVEY FEET).
3. RIGHT OF WAY LINE PROVIDED BY WISDOT, LOCATIONS ARE APPROXIMATE.
4. SOIL BORINGS COLLECTED 8/7/2019.
5. SOIL FILL WITHIN THE RIGHT-OF-WAY WAS EXCAVATED AND STOCKPILED ON-SITE DURING CEMETERY/ARCHEOLOGY STUDY ON JUNE 15 AND 16, 2020. SAMPLES ASSOCIATED WITH THIS MATERIAL INCLUDE SS-P-01 THROUGH SS-P-12.

0 150 300 Feet

1 " = 150 '

1:1,800

PROJECT:

WISDOT #1228-22-01

I-43, CAPITOL DR. TO HAMPTON RD./MILWAUKEE RIVER

GLENDALE, MILWAUKEE COUNTY, WISCONSIN

TITLE:

SOIL BORINGS AND ARCHEOLOGY STUDY LOCATIONS

DRAWN BY:	A. ADAIR	PROJ. NO.:	341633
CHECKED BY:	T. O'CONNELL		
APPROVED BY:	B. BERGMANN		FIGURE 2
DATE:	JANUARY 2021		

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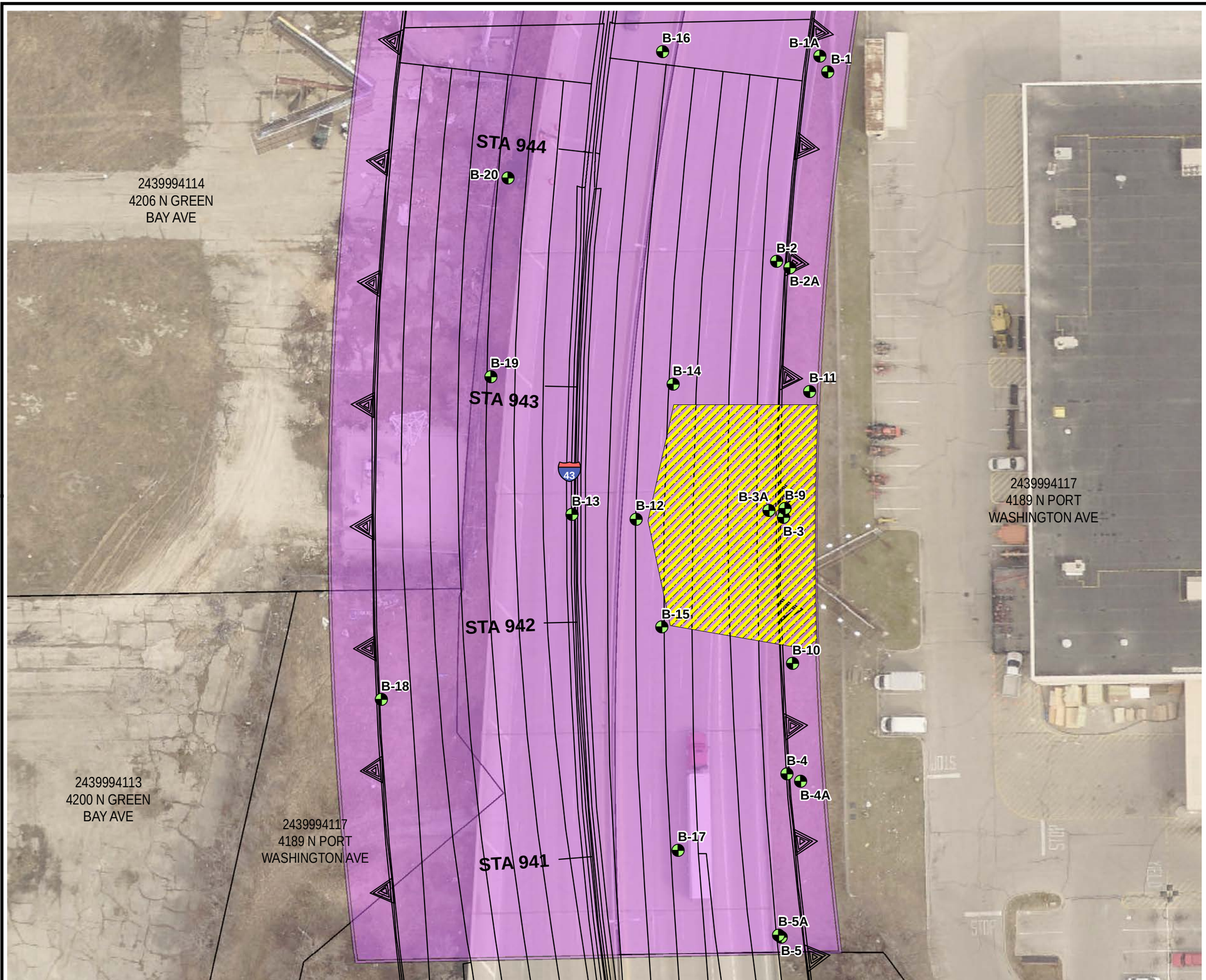
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TRC - GIS
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TRC - GIS

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
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LEGEND

- GEOPROBE LOCATION
- CONTAMINATED SOIL FROM 0-4 FT BGS
- AREA OF HAZARDOUS LEAD SOILS

NOTES
1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY GIS & LAND INFORMATION, (APRIL 2020).
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN SOUTH (US-SURVEY FEET).
3. RIGHT OF WAY LINE PROVIDED BY WISDOT, LOCATIONS ARE APPROXIMATE.

N

0 40 80 Feet

1 " = 40 '
1:480

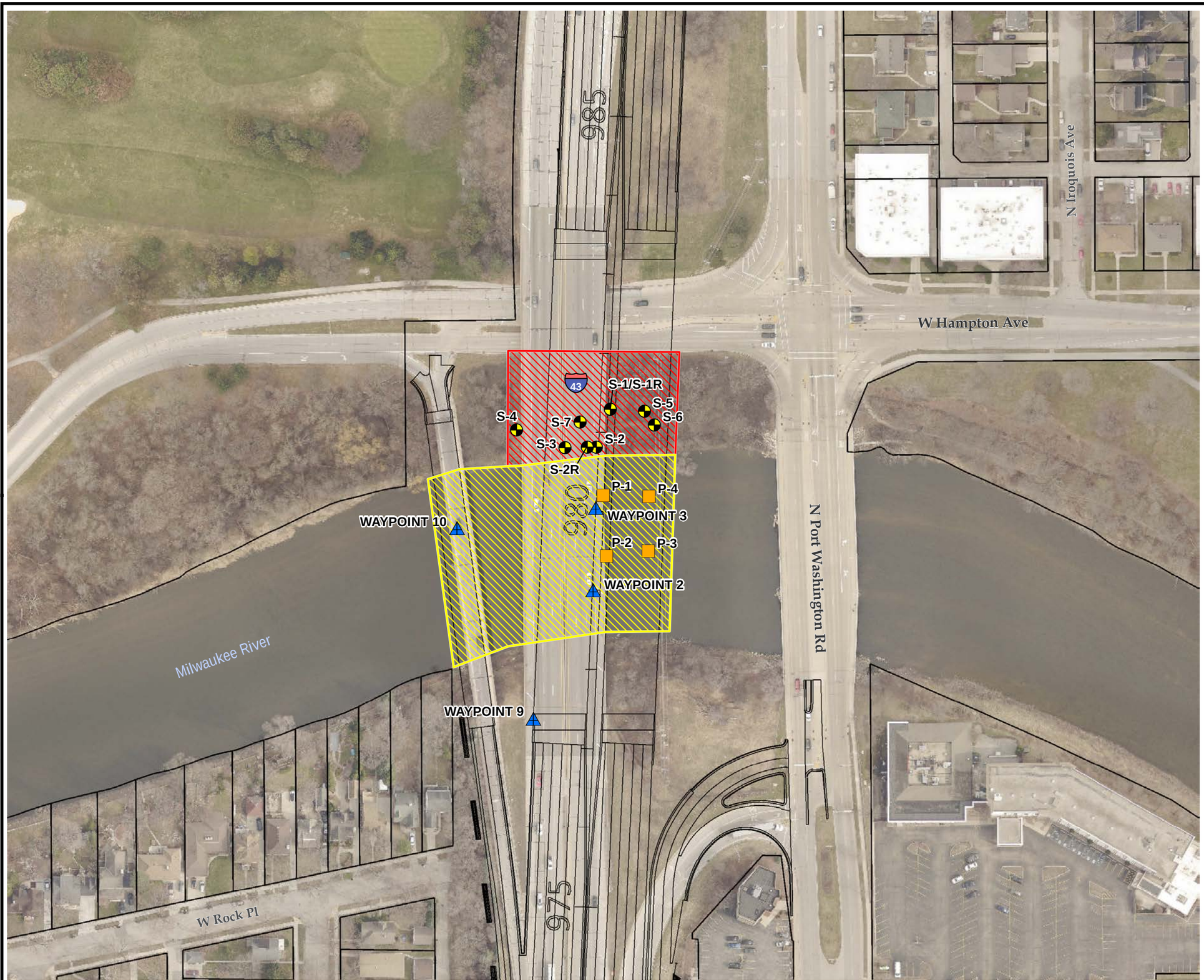
PROJECT:
WISDOT #1228-22-01
I-43, CAPITOL DR. TO HAMPTON RD./MILWAUKEE RIVER
GLENDALE, MILWAUKEE COUNTY, WISCONSIN

TITLE:
SOIL BORINGS LOCATION AND HAZARDOUS LEAD AREA

DRAWN BY:	A. ADAIR	PROJ. NO.:	341633
CHECKED BY:	T. O'CONNELL		
APPROVED BY:	B. BERGMANN		**FIGURE 3**
DATE:	JANUARY 2021		

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FILE NO.: 341633_004_SB_temp.mxd



LEGEND

- SEDIMENT SAMPLE
- SOIL BORING
- WISDOT GEOTECH BORINGS
- CONTAMINATED SEDIMENT
- CONTAMINATED SOIL

NOTES

1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY GIS & LAND INFORMATION, (APRIL 2020).
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN SOUTH (US-SURVEY FEET).
3. RIGHT OF WAY LINE PROVIDED BY WISDOT, LOCATIONS ARE APPROXIMATE.
4. SEDIMENT & SOIL SAMPLES COLLECTED 8/28/2019 AND 11/27/2019.
5. WISDOT GEOTECH BORINGS WERE CONDUCTED ON VARIOUS DATES IN MAY 2020. A SOIL SAMPLE WAS COLLECTED FROM WAYPOINT 9 BORING; ALL OTHER BORINGS DID NOT YIELD SUFFICIENT MATERIAL FOR SAMPLING.

0 120 240 Feet

1 " = 120 '

1:1,440

PROJECT:

WISDOT #1228-22-01

I-43, CAPITOL DR. TO HAMPTON RD./MILWAUKEE RIVER

GLENDALE, MILWAUKEE COUNTY, WISCONSIN

TITLE:

SEDIMENT AND SOIL BORING LOCATIONS

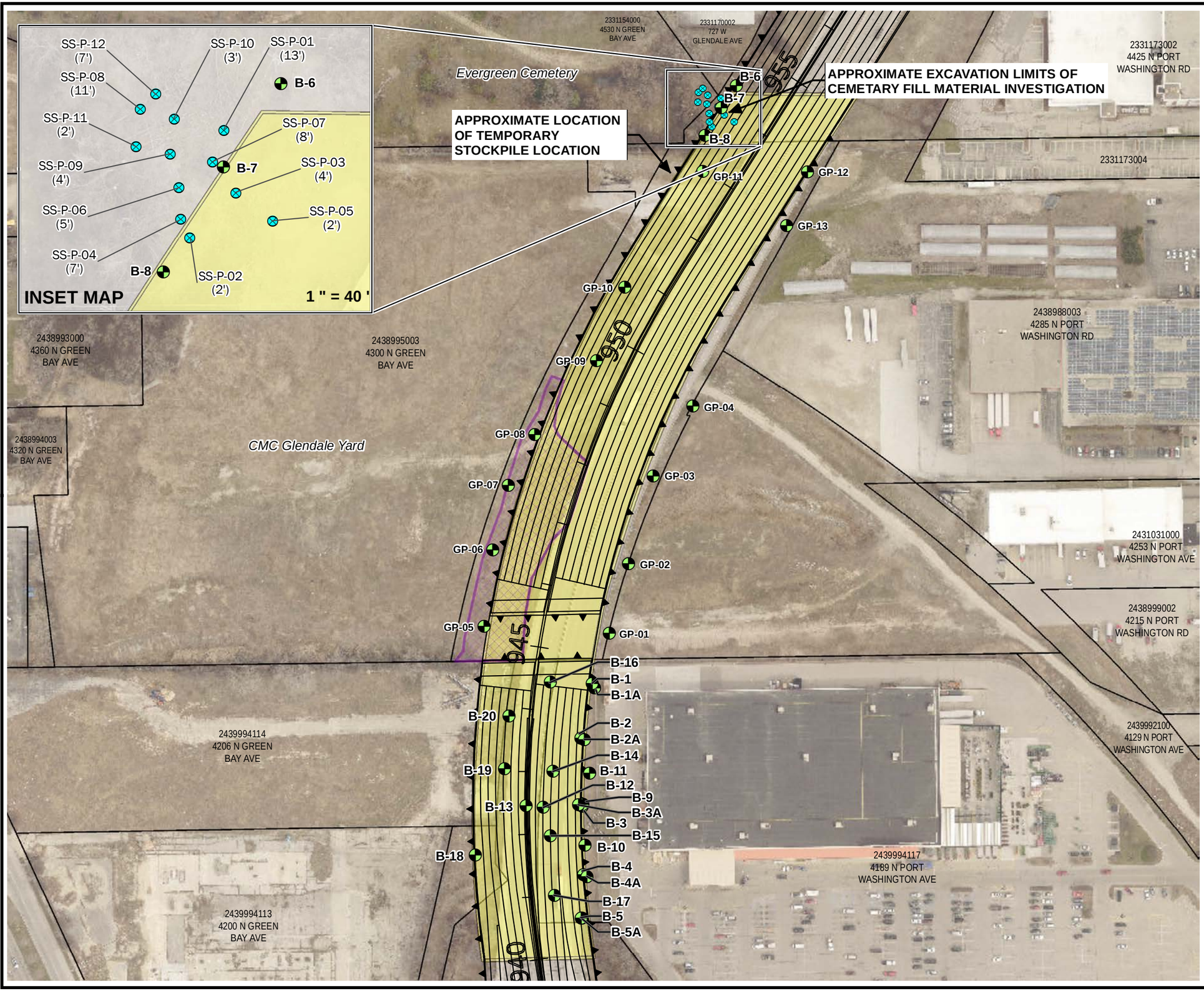
DRAWN BY:	A. ADAIR	PROJ. NO.:	341633
CHECKED BY:	T. O'CONNELL		
APPROVED BY:	B. BERGMANN		**FIGURE 4**
DATE:	JANUARY 2021		

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FILE NO.: 341633_003_SBb.mxd

TRC - GIS
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LEGEND

- GEOPROBE LOCATION
- GRAB SAMPLE
- AREA OF CONTAMINATED SOIL SUITABLE FOR REUSE
- CONTAMINATED SOIL RE-USE AREA

NOTES

1. BASE MAP IMAGERY FROM MILWAUKEE COUNTY GIS & LAND INFORMATION, (APRIL 2020).
2. MAP PROJECTION AND GRID COORDINATES ARE NAD 83 STATE PLANE WISCONSIN SOUTH (US-SURVEY FEET).
3. RIGHT OF WAY LINE PROVIDED BY WISDOT, LOCATIONS ARE APPROXIMATE.
4. SOIL BORINGS COLLECTED 8/7/2019.
5. SOIL FILL WITHIN THE RIGHT-OF-WAY WAS EXCAVATED AND STOCKPILED ON-SITE DURING CEMETERY/ARCHEOLOGY STUDY ON JUNE 15 AND 16, 2020. SAMPLES ASSOCIATED WITH THIS MATERIAL INCLUDE SS-P-01 THROUGH SS-P-12.

0 150 300 Feet

1 " = 150 '

1:1,800

PROJECT:

WISDOT #1228-22-01

I-43, CAPITOL DR. TO HAMPTON RD./MILWAUKEE RIVER

GLENDALE, MILWAUKEE COUNTY, WISCONSIN

TITLE:

CONTAMINATED SOIL REUSE AREA

DRAWN BY:	A. ADAIR	PROJ. NO.:	341633
CHECKED BY:	T. O'CONNELL		
APPROVED BY:	B. BERGMANN		**FIGURE 5**
DATE:	JANUARY 2021		

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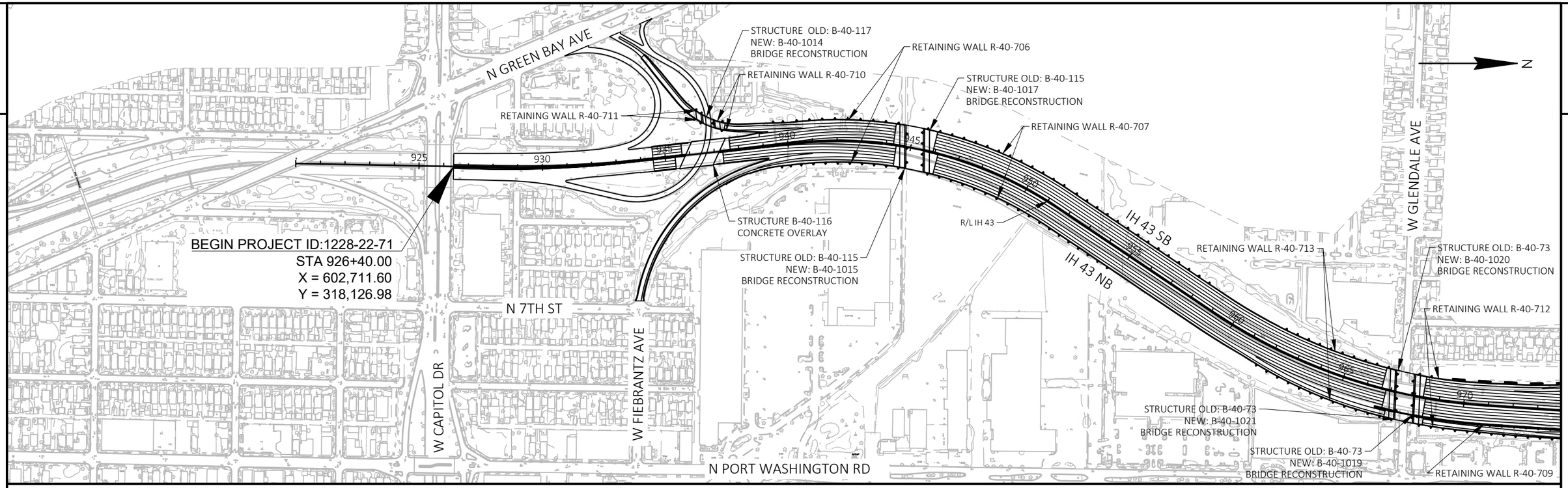
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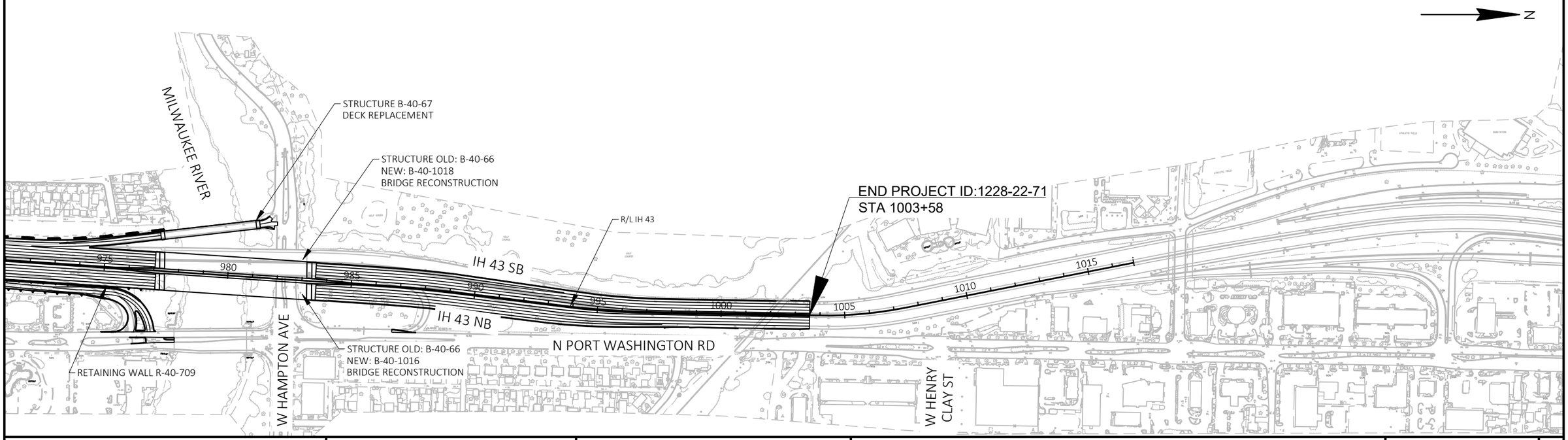
TRC - GIS

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Appendix A: Construction Plans





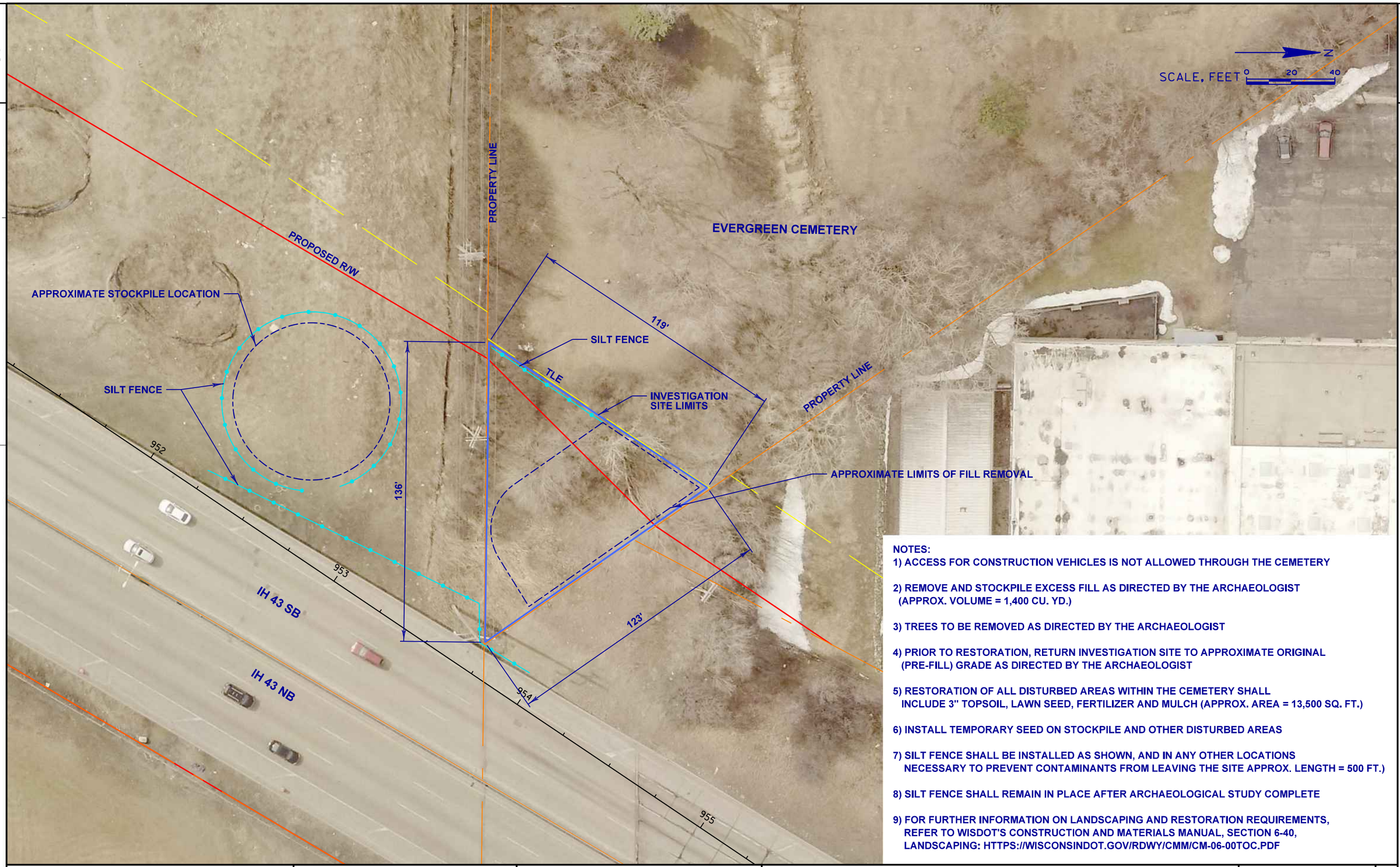
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET E

PRE_4

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LAYOUT NAME - 020201-po

PLOT DATE : 3/27/2019 5:05 PM PLOT BY : JELACIC, JOSEPH C PLOT NAME : PLOT SCALE : 1 IN: 400 FT


RIPRAP
129'-0"
129'-0"
129'-0"
93'-0"
93'-0"
26'-0"±
4'-0"
33'-0"
24'-0"
Pier Stem Dimensions
Pier Footing Dimensions
Pier 1 in River
Pier 2 in River
Pier 3 on Slope
Pier 4 in Median



NOTES:

1) ACCESS FOR CONSTRUCTION VEHICLES IS NOT ALLOWED THROUGH THE CEMETERY

2) REMOVE AND STOCKPILE EXCESS FILL AS DIRECTED BY THE ARCHAEOLOGIST (APPROX. VOLUME = 1,400 CU. YD.)

3) TREES TO BE REMOVED AS DIRECTED BY THE ARCHAEOLOGIST

4) PRIOR TO RESTORATION, RETURN INVESTIGATION SITE TO APPROXIMATE ORIGINAL (PRE-FILL) GRADE AS DIRECTED BY THE ARCHAEOLOGIST

5) RESTORATION OF ALL DISTURBED AREAS WITHIN THE CEMETERY SHALL INCLUDE 3" TOPSOIL, LAWN SEED, FERTILIZER AND MULCH (APPROX. AREA = 13,500 SQ. FT.)

6) INSTALL TEMPORARY SEED ON STOCKPILE AND OTHER DISTURBED AREAS

7) SILT FENCE SHALL BE INSTALLED AS SHOWN, AND IN ANY OTHER LOCATIONS NECESSARY TO PREVENT CONTAMINANTS FROM LEAVING THE SITE APPROX. LENGTH = 500 FT.)

8) SILT FENCE SHALL REMAIN IN PLACE AFTER ARCHAEOLOGICAL STUDY COMPLETE

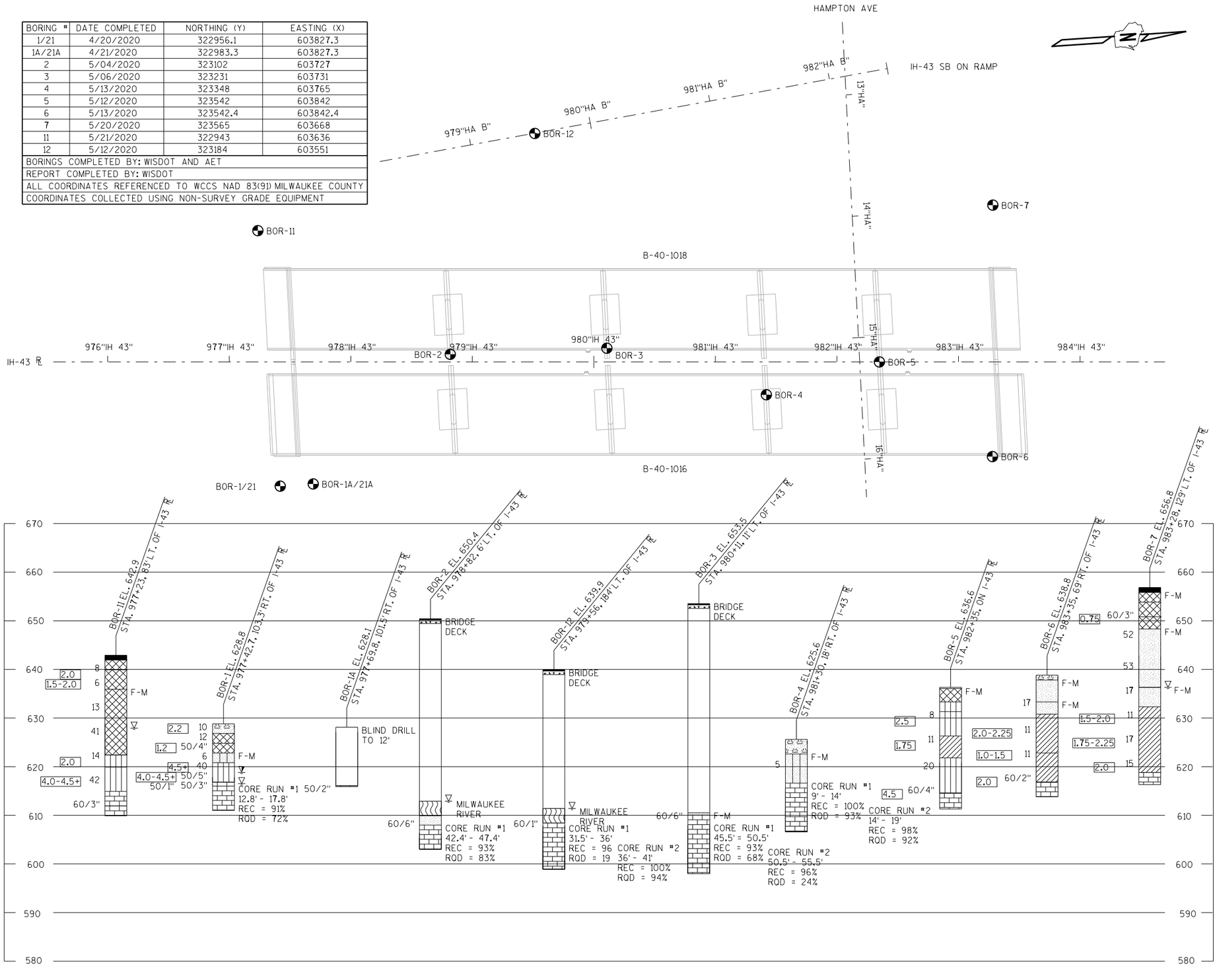
9) FOR FURTHER INFORMATION ON LANDSCAPING AND RESTORATION REQUIREMENTS, REFER TO WISDOT'S CONSTRUCTION AND MATERIALS MANUAL, SECTION 6-40, LANDSCAPING: HTTPS://WISCONSINDOT.GOV/RDWY/CMM/CM-06-00TOC.PDF

PROJECT NO: 1228-22-01	HWY: IH 43	COUNTY: MILWAUKEE	INVESTIGATION SITE DETAIL SHEET	SHEET	E

FILE NAME : S:\DOT\DOT_SE\190224_I43_N-S_Freeway_North-Hampton\Design\Displays\PIM\OVERVIEW AND DETAIL SHEET\DETAIL_SHT.dgn PLOT DATE : 3/4/2020 PLOT BY : wwolak PLOT NAME : PLOT SCALE : 1:40

WISDOT/CADDS SHEET 42

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
1/21	4/20/2020	322956.1	603827.3
1A/21A	4/21/2020	322983.3	603827.3
2	5/04/2020	323102	603727
3	5/06/2020	323231	603731
4	5/13/2020	323348	603765
5	5/12/2020	323542	603842
6	5/13/2020	323542.4	603842.4
7	5/20/2020	323565	603668
11	5/21/2020	322943	603636
12	5/12/2020	323184	603551
BORINGS COMPLETED BY: WISDOT AND AET			
REPORT COMPLETED BY: WISDOT			
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) MILWAUKEE COUNTY			
COORDINATES COLLECTED USING NON-SURVEY GRADE EQUIPMENT			



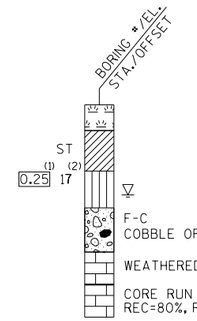
STATE PROJECT NUMBER

1228-22-00

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

▽ AT TIME OF DRILLING

▼ END OF DRILLING

▽ AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-1016/1018

DRAWN BY TLP | PLANS CK'D.

SUBSURFACE EXPLORATION

SHEET

SCALE =

8

8

WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00**			**BORING ID: B-1/21**	
	WISDOT STRUCTURE ID: **B-40-1016/R-40-709**			PAGE NO: **1 of 1**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT: **AET**	CONSULTANT PROJECT NO:		LATITUDE:	LONGITUDE:
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **AET**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **322956.1**	EASTING: **603827.3**
DATE STARTED: **4/20/20**	CREW CHIEF: **MH**	DRILL RIG: **AET #67**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **4/20/20**	LOGGED BY: **MH**	HOLE SIZE: **4 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION: **NA**	
STATION: **977+42.7**	OFFSET: **103.3' Rt of IH43 R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **628.8 ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
SS 1	12	M	3-5-5-30 (10)	1		24.0" TOPSOIL (CLAY, Brown/dark brown, little sand and gravel), (FILL)	OL	2.2				HSA	Easy drilling
				2		2.0 626.8							
SS 2	9	M	40-8-4-5 (12)	3		CRUSHED CONCRETE AND GRAVEL, gray/dark brown, intermixed with sand and silt, firm (FILL), moist							Medium drilling
				4		4.0 624.8							
SS 3	4	M	1-50/4"	5		LEAN CLAY, brown/dark brown, intermixed with sand, gravel & concrete, stiff (FILL), moist	CL	1.2					Hard drilling Medium drilling
				6		6.0 622.8							
SS 4	14	M-W	4-2-4-9 (6)	7		Fine to medium SILTY SAND, brown, few clay, little gravel, loose, moist to wet	SM						
				8		8.0 620.8		4.5+					
SS 5	14	M	5-20-20-20 (40)	9		SILT, tan (mottled), little sand & gravel, hard, moist							
				10			ML	4.0-4.5+					
SS 6	18	M	15-27-19-50/5"	11		Greenish gray near 11.0'							
				12		12.0 616.8							
SS 7	2	M-W	50/3"	13		12.6 DOLOMITE, gray, very dense, moist to wet 616.2 Auger refusal at 12.5'							Hard drilling
SS 8	1	M-W	50/1"	14		Split spoon refusal at 12.6'							
CORE 9	55 (73)			15		DOLOMITE TO SHALEY DOLOMITE, light gray/dark gray						COR	Hard coring
				16									
				17		17.8 611.0							

End of Boring at 17.8 ft.

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 12.3ft.	CAVE - IN DEPTH AT COMPLETION: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

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WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00**			**BORING ID: B-1A/21A**	
	WISDOT STRUCTURE ID: **B-40-1016/R-40-709**			PAGE NO: **1 of 1**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT: **AET**	CONSULTANT PROJECT NO:		LATITUDE:	LONGITUDE:
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **AET**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **322983.3**	EASTING: **603827.3**
DATE STARTED: **4/21/20**	CREW CHIEF: **MH**	DRILL RIG: **AET #67**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **4/21/20**	LOGGED BY: **MH**	HOLE SIZE: **4 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION: **NA**	
STATION **977+69.8**	OFFSET **101.5' Rt of IH43 R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **628.1 ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1		Blind drill to bedrock						HSA	Medium drilling
				2		(B-21-709A was offset 27.0' North of B-21-709 and blind drilled to check the depth to bedrock)							
				3									
				4									
				5									
				6									
				7									
				8									
				9									
				10									
				11									
				12		12.0 616.1							Hard drilling
SS 1	2		50/2"			12.2 DOLOMITE, gray, very dense 615.9							
						Split spoon refusal at 12.2'							
						End of Boring at 12.2 ft.							

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: NE	CAVE - IN DEPTH AT COMPLETION: NMR		WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	CAVE - IN DEPTH AFTER 0 HOURS: NMR		WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

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WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00** WISDOT STRUCTURE ID: **B-40-1016**			**BORING ID: B-2** PAGE NO: **1 of 2**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT:	CONSULTANT PROJECT NO:		LATITUDE:	LONGITUDE:
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **WISDOT**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **323102**	EASTING: **603727**
DATE STARTED: **5/04/20**	CREW CHIEF: **J. Ruda**	DRILL RIG: **Unit 3**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **5/04/20**	LOGGED BY: **S. Bahn**	HOLE SIZE: **4 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION: **608.25 ft**	
STATION **978+82**	OFFSET **6' LT of R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **650.4 ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1		0.3 3.0" HMA 650.1 1.0 9.0" PCC 649.4 Air gap, 4" casing							

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 37.5ft.	CAVE - IN DEPTH AT COMPLETION: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

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WI Dept. of Transportation
3502 Kinsman Blvd.
Madison, WI 53704

WISDOT PROJECT ID: 1228-22-00
WISDOT STRUCTURE ID: B-40-1016

BORING ID: B-2

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				36		Air gap, 4" casing							
				37 ▽		37.5 612.9							
				38		River flowage, 4" casing							
				39									
				40		40.5 609.9							
SS 1	4	W	60/6"	41		Fine to medium SAND, brown, some fine to medium gravel, very dense, wet	SP						
				42		42.4 608.0							
CORE 1	56 (83)			43		DOLOMITE, sandy/shaley, slightly weathered, dark gray							
				44		Core run #1: 42.4'-47.4', 93% Recovery							
				45		RQD= 83%							
				46									
				47		47.4 603.0							

End of Boring at 47.4 ft.

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WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00**			**BORING ID: B-3**	
	WISDOT STRUCTURE ID: **B-40-1016**			PAGE NO: **1 of 2**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT:	CONSULTANT PROJECT NO:		LATITUDE:	LONGITUDE:
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **WISDOT**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **323231**	EASTING: **603731**
DATE STARTED: **5/06/20**	CREW CHIEF: **J. Ruda**	DRILL RIG: **Unit 3**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **5/06/20**	LOGGED BY: **S. Bahn**	HOLE SIZE: **4 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION: **608.25 ft**	
STATION **980+11**	OFFSET **11' LT of R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **653.5ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1		0.3 3.0" HMA 653.2 1.0 9.0" PCC 652.5 Air gap and flowage, 4' casing to 45.5'							

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: NMR	CAVE - IN DEPTH AT COMPLETION: NMR		WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	CAVE - IN DEPTH AFTER 0 HOURS: NMR		WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

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WI Dept. of Transportation 3502 Kinsman Blvd. Madison, WI 53704	WISDOT PROJECT ID: 1228-22-00 WISDOT STRUCTURE ID: B-40-1016	**BORING ID: B-3** PAGE NO: 2 of 2

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				36		Air gap and flowage, 4' casing to 45.5'							
				37									
				38									
				39									
				40									
				41									
				42									
				43		43.0 610.5							
SS 1	6		60/6"	43.5		Fine to medium SAND, brown, some fine to medium gravel, very dense, wet 610.0	SP						
				44		DOLOMITE, sandy/shaley, slightly weathered, dark gray							
				45									
CORE 1	56 (68)			46		Core run #1: 45.5'-50.5', 93% Recovery							
				47		RQD= 68%							
				48									
				49									
				50									
CORE 2	58 (24)			51		Core run #2: 50.5'-55.5', 96% Recovery							
				52		RQD= 24%							
				53									
				54									
				55		55.5 598.0							

End of Boring at 55.5 ft.

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WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00** WISDOT STRUCTURE ID: **B-40-1016**			**BORING ID: B-4** PAGE NO: **1 of 1**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT:	CONSULTANT PROJECT NO:		LATITUDE: **43.10384933333333**	LONGITUDE: **-87.91778683333332**
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **WISDOT**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **323348**	EASTING: **603765**
DATE STARTED: **5/12/20**	CREW CHIEF: **J. Ruda**	DRILL RIG: **Unit 3**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **5/13/20**	LOGGED BY: **S. Bahn**	HOLE SIZE: **3 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION:	
STATION **981+30**	OFFSET **18' RT of R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **625.6 ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1 2 3		36.0" TOPSOIL 3.0 622.6	OL						
SS 1	2	M	1-2-3 (5)	4 5 6 7 8		Fine to medium SAND, brown, little silt and gravel, loose, moist 9.0 616.6	SM						
CORE 1	60 (93)			9 10 11 12 13 14		DOLOMITE, sandy/shaley, unweathered, dark gray, Core run #1: 9'-14', 100% Recovery RQD= 93%							
CORE 2	59 (92)			15 16 17 18 19		Core run #2: 14'-19', 98% Recovery RQD= 92% 19.0 606.6							

End of Boring at 19.0 ft.

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: NMR	CAVE - IN DEPTH AT COMPLETION: NMR		WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	CAVE - IN DEPTH AFTER 0 HOURS: NMR		WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

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WI Dept. of Transportation **3502 Kinsman Blvd.** **Madison, WI 53704**	WISDOT PROJECT ID: **1228-22-00**			**BORING ID: B-11**	
	WISDOT STRUCTURE ID: **B-40-1018**			PAGE NO: **1 of 1**	
WISDOT PROJECT NAME: **I-43**	CONSULTANT:	CONSULTANT PROJECT NO:		LATITUDE: **43.10273833333334**	LONGITUDE: **-87.91827316666668**
ROADWAY NAME: **IH-43 NB**	DRILLING CONTRACTOR: **WISDOT**	DRILLING CONTRACTOR PROJECT NO:		NORTHING: **322943**	EASTING: **603636**
DATE STARTED: **5/21/20**	CREW CHIEF: **J. Ruda**	DRILL RIG: **Unit 3**		COORDINATE SYSTEM: **WCCS**	
DATE COMPLETED: **5/21/20**	LOGGED BY: **S. Bahn**	HOLE SIZE: **3 in**		HORIZONTAL DATUM: **WCCS Milwaukee**	VERTICAL DATUM: **MSL**
COUNTY: **Milwaukee**	LOG QC BY: **D. Staab**	HAMMER TYPE: **Automatic**		STREAMBED ELEVATION:	
STATION **977+23**	OFFSET **83' LT of R/L**	TOWNSHIP:	RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:	SURFACE ELEVATION: **642.9 ft**	

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1		12.0" HMA							
				1.0		641.9							
				2		SILT, black, trace fine sand, medium stiff, moist, (FILL)	ML						
SS 1	18	M	2-4-4-3 (8)	3		3.0 639.9		2.0					
				4		LEAN CLAY, brown/gray, some sand, few fine to medium gravel, stiff, moist, (FILL)							
				5			CL						
SS 2	12	M	2-3-3-7 (6)	6				1.5-2.0					
				7		7.0 635.9							
				8		Fine to coarse SAND, brown, some fine to medium gravel, trace to few silt, firm, moist, (FILL)							
				9									
SS 3	18	M	3-6-7 (13)	10									
				11									
				12									
				13									
				14		Increasing gravel content with depth	SP/ SP-SM						
				15 ▽		Apparent perched water near 15'							
SS 4	18	W	13-20-21 (41)	16									
				17									
				18									
				19									
				20		20.5 622.4							
SS 5	18	M	12-7-7 (14)	21		SILT, dark gray and brown, little fine sand, trace organics, stiff, moist, (POSSIBLE FILL)	ML	2.0					
				22									
				23		23.0 619.9							
				24		SILT, brown, little sand, few gravel, hard, moist							
				25									
SS 6	18	M	6-14-28 (42)	26			ML	4.0-4.5+					
				27									
				28		28.0 614.9							
				29		DOLOMITE, moderately weathered, gray							
				30									
SS 7	3		60/3"	31		31.0 611.9							
				32		DOLOMITE, unweathered							
				33		33.0 609.9							

End of Boring at 33.0 ft.

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 15ft.		CAVE - IN DEPTH AT COMPLETION: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR	■	CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

C:\USERS\DOT\JS\DESKTOP\PDF EDITS DAVE-CRYSTAL-JEFF\1228-22-00 - I-43 - B-40-1016_1018 REVISED.GPJ I-43 6/23/20

WI Dept. of Transportation 3502 Kinsman Blvd. Madison, WI 53704	WISDOT PROJECT ID: 1228-22-00		BORING ID: B-12
	WISDOT STRUCTURE ID: B-40-1018/B-40-67		PAGE NO: 1 of 2
WISDOT PROJECT NAME: I-43	CONSULTANT:	CONSULTANT PROJECT NO:	LATITUDE: / LONGITUDE:
ROADWAY NAME: IH-43 NB	DRILLING CONTRACTOR: WISDOT	DRILLING CONTRACTOR PROJECT NO:	NORTHING: 323184 / EASTING: 603551
DATE STARTED: 5/11/20	CREW CHIEF: J. Ruda	DRILL RIG: Unit 3	COORDINATE SYSTEM: WCCS
DATE COMPLETED: 5/12/20	LOGGED BY: S. Bahn	HOLE SIZE: 4 in	HORIZONTAL DATUM: WCCS Milwaukee / VERTICAL DATUM: MSL
COUNTY: Milwaukee	LOG QC BY: D. Staab	HAMMER TYPE: Automatic	STREAMBED ELEVATION: 608.25 ft
STATION: 979+56 / OFFSET: 184' LT of R/L	TOWNSHIP: / RANGE: / SECTION: / 1/4 SECTION: / 1/4 1/4 SECTION:		SURFACE ELEVATION: 639.9 ft

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				1		0.3 3.0" HMA 639.6 1.0 9.0" PCC 638.9 Air gap							
				28		28.5 611.4 Flowage							
SS 1	0		60/1"	31		31.5 608.4 DOLOMITE, sandy/shaley, dark gray							
CORE 1	52 (19)			33		Core run #1: 31.5'-36', 96% Recovery RQD: 19%							

WATER LEVEL & CAVE-IN OBSERVATION DATA

▽	WATER ENCOUNTERED DURING DRILLING: 28.5ft.		CAVE - IN DEPTH AT COMPLETION: NMR	WET ☐ DRY ☐
▼	WATER LEVEL AT COMPLETION: NMR		CAVE - IN DEPTH AFTER 0 HOURS: NMR	WET ☐ DRY ☐

NOTES: 1) Stratification lines between soil types represent the approximate boundary; gradual transition between in-situ soil layers should be expected.
2) NE = Not Encountered; NMR = No Measurement Recorded

C:\USERS\DOT JS\DESKTOP\PDF EDITS DAVE-CRYSTAL-JEFF\1228-22-00 - I-43 - B-40-1016_1018 REVISED.GPJ I-43 6/23/20

WI Dept. of Transportation 3502 Kinsman Blvd. Madison, WI 53704	WISDOT PROJECT ID: 1228-22-00 WISDOT STRUCTURE ID: B-40-1018/B-40-67	BORING ID: B-12 PAGE NO: 2 of 2

SAMPLE TYPE NUMBER	RECOVERY (in) (RQD)	Moisture	BLOW COUNTS (N VALUE)	Depth (ft)	Graphic	Soil / Rock Description and Geological Origin for Each Major Unit / Comments	USCS / AASHTO	Strength Qp (tsf)	Liquid Limit (%)	Plasticity Index (%)	Boulders	Drilling Method	Notes
				36		DOLOMITE, sandy/shaley, dark gray							
CORE 2	60 (94)			37		Core run #2: 36'-40', 100% Recovery							
				38		RQD= 94%							
				39									
				40									
				41		41.0 598.9							

End of Boring at 41.0 ft.

C:\USERS\DOTJSJ\DESKTOP\PDF EDITS DAVE-CRYSTAL-JEFF\1228-22-00 - I-43 - B-40-1016_1018 REVISED.GPJ I-43 6/23/20

STATE PROJECT NUMBER

1228-22-71

EXISTING 9-SPAN PRESTRESSED CONCRETE GIRDER STRUCTURE, B-40-66, TO BE REMOVED.

MILWAUKEE RIVER

℄ EXIST. ABUT, TYP.

℄ EXIST. PIER, TYP.

℄ EXIST. ABUT, TYP.

IH 4

Center of pier 1
sta. 978+82
offset. 43.25' LT

Center of pier 2
sta. 980+11
offset. 43.25' LT

Center of pier 3
sta. 981+40
offset. 43.25' LT

Center of pier 4
sta. 982+33
offset. 43.25' LT

B-40-1018

B-40-1016

℟ IH-43 'SB'

℟ IH-43

℟ IH-43 'NB'

℟ HAMPTON AVE.

978"SB"

980"SB"

982"SB"

978"IH 43"

980"IH 43"

982"IH 43"

978"NB"

980"NB"

982"NB"

℄ BRG. S. ABUT.

℄ PIER 1

℄ PIER 2

℄ PIER 3

℄ PIER 4

℄ BRG. N. ABUT.

EDGE OF WATER

SLOPE PAVING CRUSHED AGGREGATE SPECIAL

END OF DECK

END OF STRUCTURAL APPROACH SLAB

26'-0"±

4'-0"

24'-0"

33'-0"

46'-0"±

72'-0"±

75'-0"±

49'-0"±

64'-0" - CLEAR ROADWAY WIDTH

1'-5⅜" PPT. TYP.

18'-0" TYP.

39'-0"±

2'-0"

2°55'42.61" SKEW, TYP.

2'-3"

129'-0" - SPAN 1
72W" PRESTRESSED GIRDER

129'-0" - SPAN 2
72W" PRESTRESSED GIRDER

129'-0" - SPAN 3
72W" PRESTRESSED GIRDER

93'-0" - SPAN 4
36W" PRESTRESSED GIRDER

93'-0" - SPAN 5
36W" PRESTRESSED GIRDER

577'-6⅛" - BACK TO BACK OF ABUTMENTS

2'-0" BARRIER
12'-0" SHLD.
12'-0" LANE
12'-0" LANE
12'-0" LANE
12'-0" AUX. LANE
4'-0" SHLD.
2'-0" BARRIER

2'-0" BARRIER
4'-0" SHLD.
12'-0" AUX. LANE
12'-0" LANE
12'-0" LANE
12'-0" LANE
12'-0" SHLD.
2'-0" BARRIER

NAME PLATE. FOR LOCATION SEE PARAPET SHEET.

(1) INDICATES WING NUMBER

NOTE: UTILITIES SHOWN ARE APPROXIMATE. STATUS OF EACH LINE IS YET TO BE DETERMINED.

PLAN

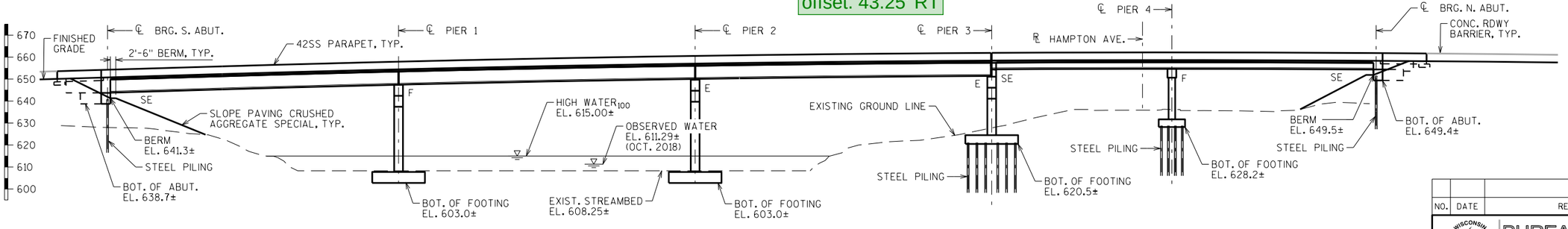
5-SPAN PRESTRESSED GIRDER

Center of pier 1
sta. 978+86.5
offset. 43.25' RT

Center of pier 2
sta. 980+15.5
offset. 43.25' RT

Center of pier 3
sta. 981+44.5
offset. 43.25' RT

Center of pier 4
sta. 982+37.5
offset. 43.25' RT



ELEVATION

NORMAL TO HAMPTON AVE.
LOOKING WEST (UPSTREAM)

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED _____ _____
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-40-1016/1018

IH-43 NB OVER MILWAUKEE RIVER & HAMPTON AVE.

COUNTY	CITY
MILWAUKEE	GLENDALE

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
ABS	CAD	ABS	

PLAN SKETCH

SHEET 1 OF 1

I.D. 1228-22-01A

DATE: JULY 2019

SCALE = 25.00

8

8

2

2

MATCHLINE 936+35 GBC

MATCHLINE 939+40 GBA2

B-40-1014

R-40-711

939GBA

937GBC

+42.13GBC
-8.00' LT

R-40-710

SLOPE INTERCEPT

BEGIN R-40-710
STA 939+20.23 GBC

+92.64GBC

CP13

CP19

R/L GBC

CB02

END R-40-707
STA 940+47.13

+99.65GBC
-9.93' LT

+00.00GBC
-5.95' LT

R-40-707

4'

WETLAND BOUNDARY

R/W

TLE

N

PV01

CP13

8'

15'

4'

938GBC

939GBC

940GBC

941GBC

RAMP GBC

R-40-710

+42.13GBC
19.00' RT

END R-40-710
STA 937+63.88 GBC

CB41

+15.64GBC
21.00' RT

CB02

+65.14
-52.33' LT

RAMP GBA2

R/L GBA2

938GBA2

CP19

+20.91
-52.34' LT

BG23

+31.78
-51.12' LT

+31.17GBC
15.00' RT

+31.45GBC
18.00' RT

10'

12'

12'

12'

IH 43 SB

R/L IH 43

SB PGL

+22.69
-4.00' LT

8'

+65.14
-4.00' LT

937

938

939

940

941

CB09

NB PGL

CB72

CB40

CB02

+17.92
4.00' RT

+34.11
4.00' RT

12'

12'

8'

IH 43 NB

+52.03
53.95' RT

+83.33
52.28' RT

+75.45GBD
-20.00' LT

+07.58
51.00' RT

+34.11
48.00' RT

EXISTING
B-40-116

CG30

CG33

940GBD

941GBD

RAMP GBD

939GBD

938GBD

937GBD

5'

6'

8'

R-40-706

R/W

TLE

CP13

+75.45GBD

BG16

BG17

+46.78GBD

BEGIN R-40-706
STA 939+42.96 GBD

R/L GBD

MATCHLINE 936+65 GBD

MATCHLINE 941+65

Contaminated Soil Area

Re-use Area

PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_79

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 03

PLOT DATE : 8/3/2020 4:29 PM

PLOT BY : SANTIAGO PEREZ, EDGA

PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

SLOPE INTERCEPT

WETLAND BOUNDARY

TLE

R/W

N

STORAGE

SIGN

R/L GBC

S-40-3021

R-40-707

942GBC

CP19

IH 43 SB

SB PGL

S-40-3022

R/L IH 43

CB40

CB72

CB09

CB02

C

944

945

946

947

943

942

MATCHLINE 941+65

MATCHLINE 947+40

6'4"

12'

15.25'

10'

15'

NB PGL

IH 43 NB

943GBD

944GBD

942GBD

R/W

INL

MH

S-40-3018

R-40-706

R/L GBD

WETLAND BOUNDARY

TLE

Contaminated Soil for Reuse

Re-use Area

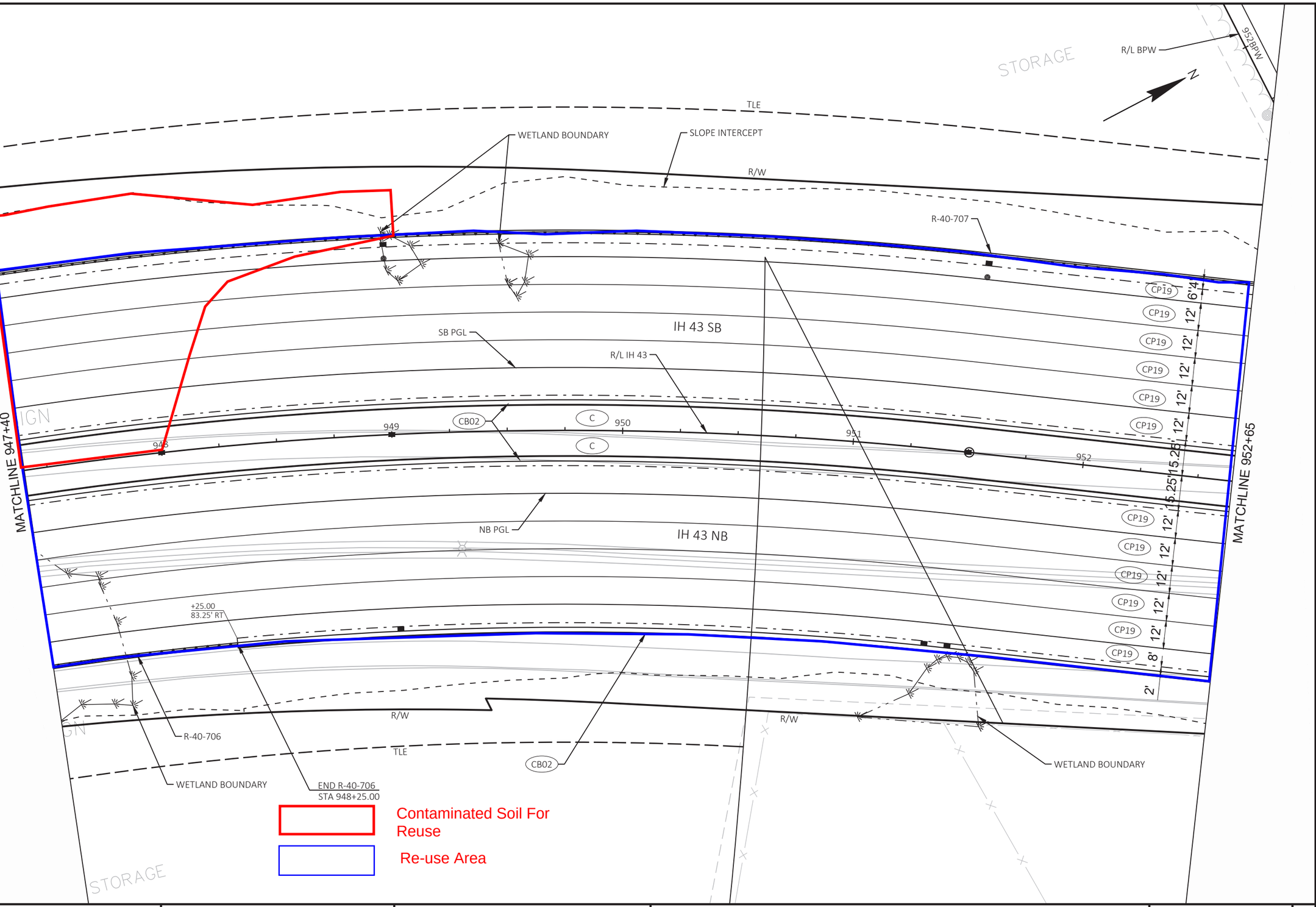
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_80

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 04

PLOT DATE : 8/3/2020 4:30 PM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

PRE_81

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 05

PLOT DATE : 8/3/2020 4:30 PM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

MATCHLINE 952+65

MATCHLINE 957+65

+72.46BPW
6.00' RT

+72.46BPW
-6.00' LT

TLE

R/W

954BPW

955BPW

956BPW

957BPW

R-40-707

R/L BPW

FUTURE BIKE PATH GRADING

WETLAND BOUNDARY

RAMP

+30.00
-85.25' LT

+30.00
-81.25' LT

IH 43 SB

IH 43 NB

SB PGL

NB PGL

R/L IH 43

CP19

CB02

C

953

954

955

956

957

12'

6'4"

15.25'

10'

8'

2'

+42.10
83.25' RT

+75.00BPE
-5.00' LT

+75.00BPE
5.00' RT

955BPE

956BPE

957BPE

R/L BPE

SLOPE INTERCEPT

BEGIN R-40-713
STA 954+42.10

FUTURE BIKE PATH GRADING

R-40-713

LAKE TOWER POND

MH

SIGN

Contaminated Soil Area

Re-use Area

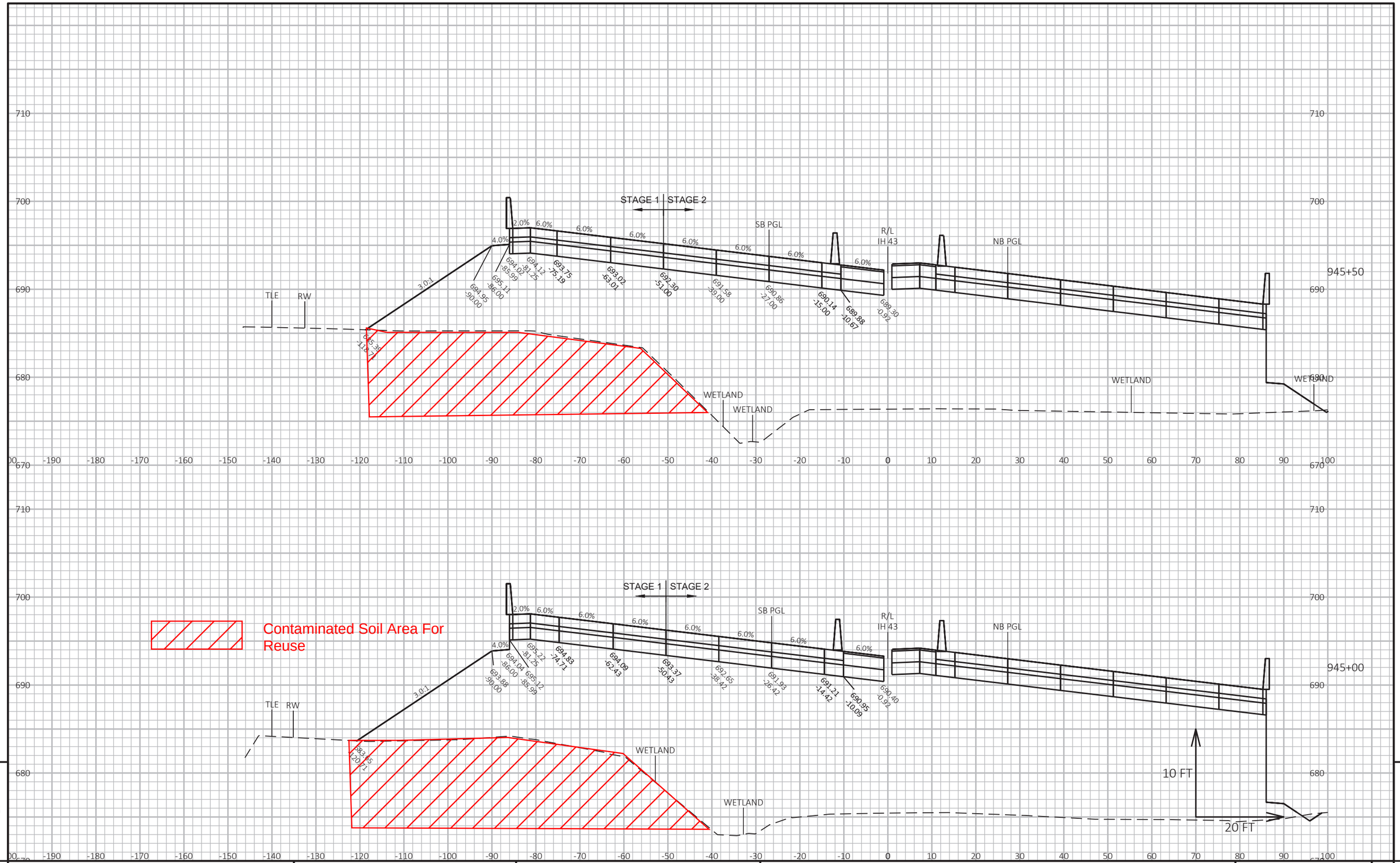
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\021201-PD.DWG
LAYOUT NAME - 06

PLOT DATE : 8/3/2020 4:31 PM PLOT BY : SANTIAGO PEREZ, EDGA PLOT NAME : PLOT SCALE : 1 IN:40 FT

PRE_82

WISDOT/CADDS SHEET 42



9

9

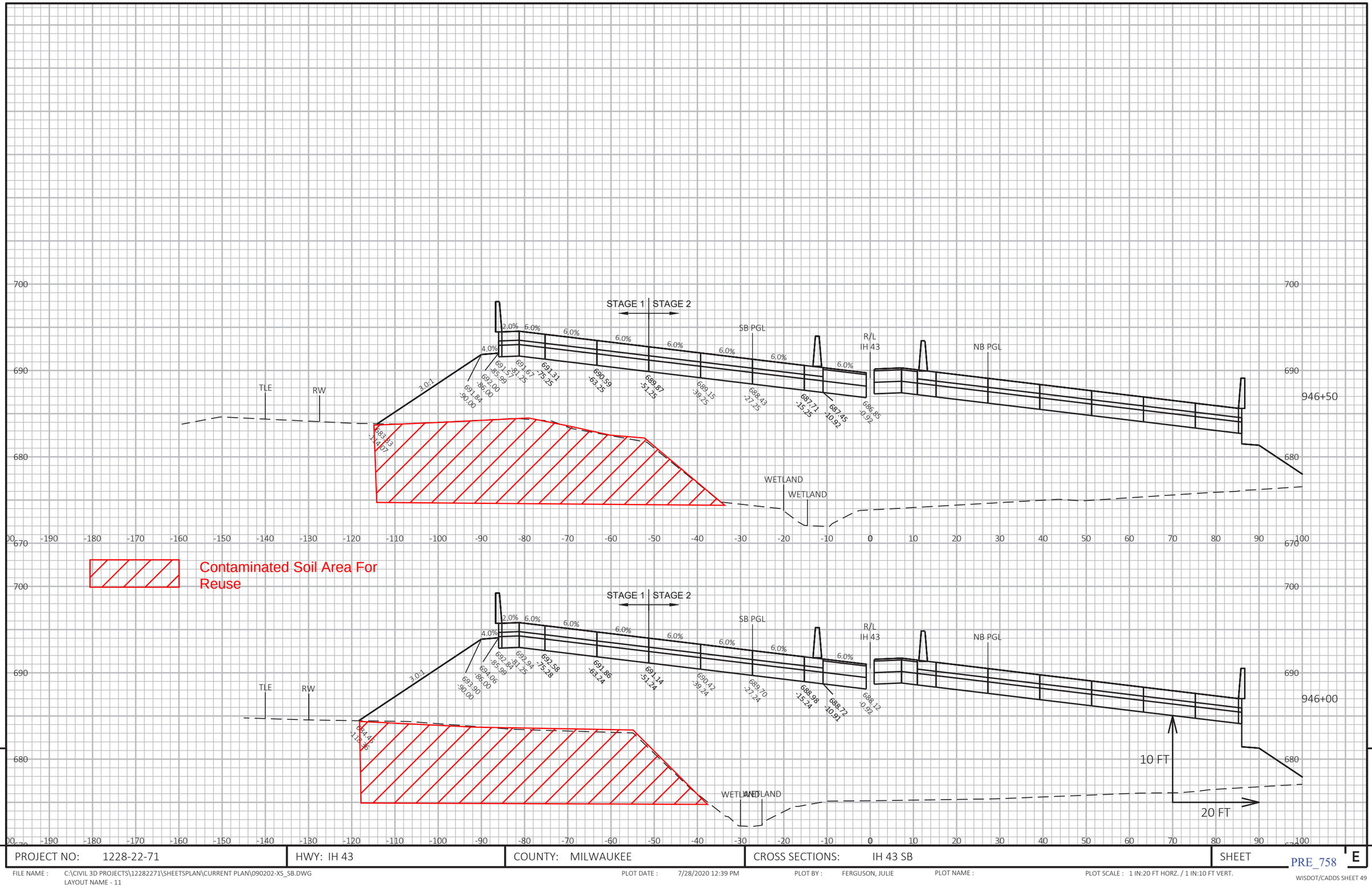
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

PRE_757

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 10

PLOT DATE : 7/28/2020 12:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49



Contaminated Soil Area For Reuse

9

9

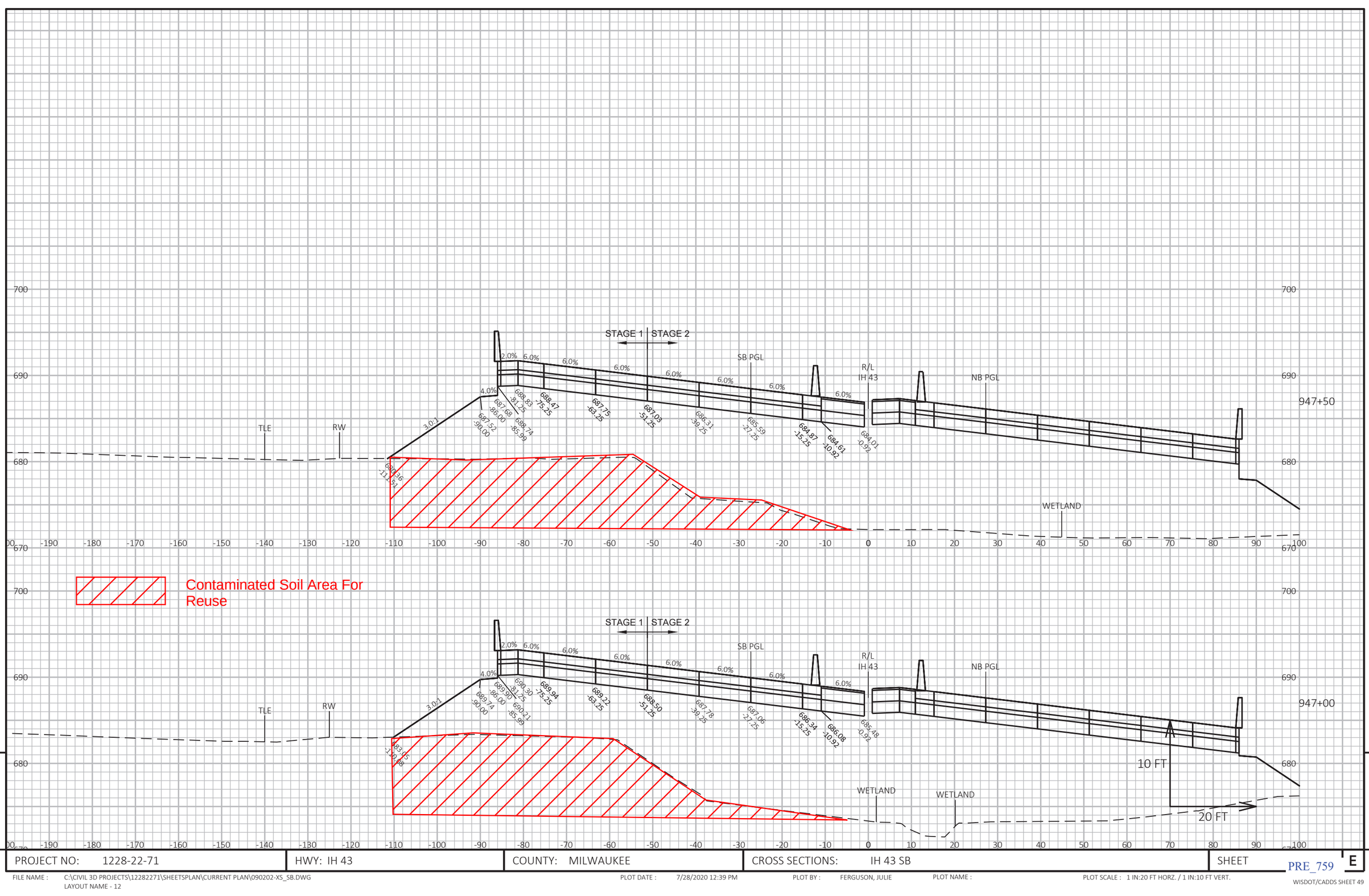
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 11

PLOT DATE : 7/28/2020 12:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_758

WISDOT/CADDS SHEET 49



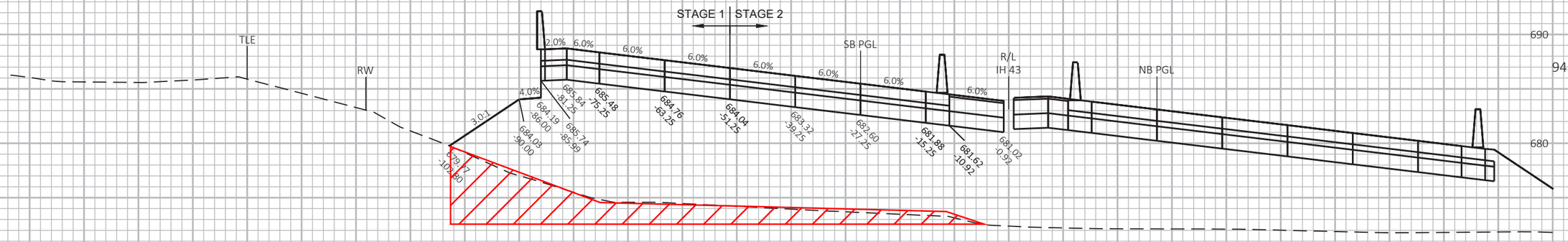
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 12

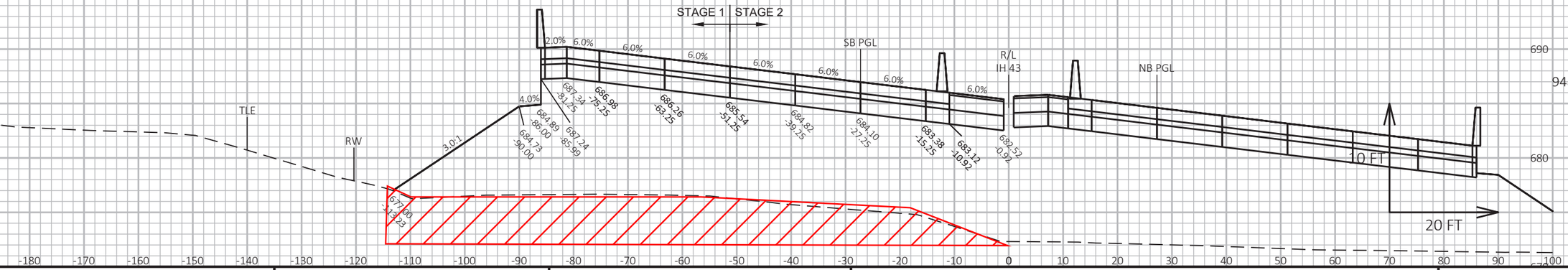
PLOT DATE : 7/28/2020 12:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_759

WISDOT/CADDS SHEET 49



Contaminated Soil Area For Resuse



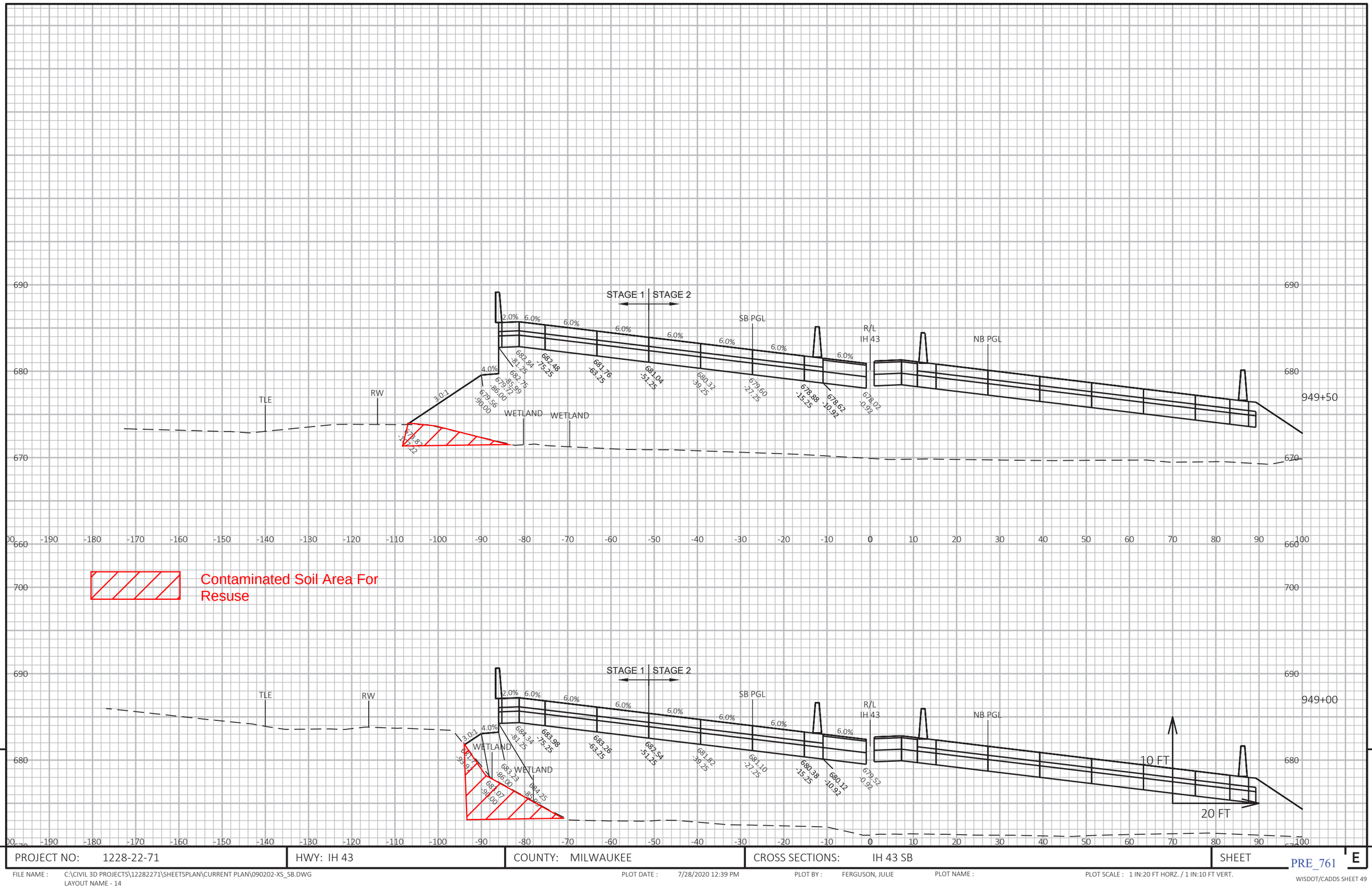
PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 13

PLOT DATE : 7/28/2020 12:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_760

WISDOT/CADDS SHEET 49



PROJECT NO: 1228-22-71	HWY: IH 43	COUNTY: MILWAUKEE	CROSS SECTIONS: IH 43 SB	SHEET E

FILE NAME : C:\CIVIL 3D PROJECTS\12282271\SHEETSPLAN\CURRENT PLAN\090202-XS_SB.DWG
LAYOUT NAME - 14

PLOT DATE : 7/28/2020 12:39 PM PLOT BY : FERGUSON, JULIE PLOT NAME : PLOT SCALE : 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

PRE_761

WISDOT/CADDS SHEET 49

Appendix B: Background Information

Table 1
Soil Sampling Results Summary - Phase 2.5 Investigation
Former Glendale Yards
IH-43 Bridge South of Hampton Ave.
WisDOT Project ID 1228-02-63; TRC Project ID 203231.0000.0000

	NR 720 RCL	SOIL SAMPLE ID AND DEPTH (feet bgs)																TYPICAL LANDFILL ACCEPTANCE CRITERIA
		GP-1		GP-2		GP-3		GP-4		GP-5		GP-6		GP-7		GP-8		
		(2'-4')	(8'-10')	(0'-2')	(8'-10')	(2'-4')	(8'-10')	(0'-2')	(8'-10')	(0'-2')	(6'-8')	(0'-2')	(4'-6')	(0'-2')	(6'-8')	(2'-4')	(8'-10')	
		SAMPLES COLLECTED APRIL 25, 2013																
PID Readings	-	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	0.1	8.4	3.1	5.4	4.8	6.9	6.6	4.2	
GRO (mg/kg)	100	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	2,000 mg/kg
DRO (mg/kg)	100	11	2.1 J	20	2.2 J	3.5 J	2.1 J	**960**	4.1 J	41	3.7 J	**130**	4.9 J	100	14	94	5.9	2,000 mg/kg
PVOCs/VOCs (µg/kg)																		
Benzene	5.5	<4.7	<4.5	<4.7	<5.1	<3.9	<4.6	<4.4	<4.6	<4.7	<5.3	<5.3	<4.8	<4.5	<4.4	<4.7	<4.7	10,000 µg/kg
Ethylbenzene	2,900	<8.0	<7.6	<7.9	<8.6	<6.6	<7.9	<7.5	<7.7	<8.0	<8.9	<9.0	<8.1	<7.7	<7.5	<7.9	<7.9	
Naphthalene	400	<31	<30	<31	<34	<26	<31	<29	<30	<31	<35	130 J	<32	<30	<29	<31	<31	
Toluene	1,500	<7.3	<7.0	<7.2	<7.9	<6.0	<7.2	<6.9	<7.1	<7.3	<8.1	<8.2	<7.4	20	24	<7.2	<7.2	
Trimethylbenzenes	-	<26	<25	<26	<28	<22	<26	<25	<26	<26	<30	34 J	<27	<26	<25	<26	<26	
Xylenes	4,100	<4.3	<4.1	<4.3	<4.7	<3.6	<4.3	<4.1	<4.2	<4.3	<4.8	<4.9	<4.4	<4.2	<4.1	<4.3	<4.3	
Other VOCs		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
Metals (mg/kg)																		
Arsenic	0.039	**4.5**	**4.1**	**5.9**	**4.7**	**2.1**	**4.2**	**2.9**	**4.8**	**6.5**	**1.4**	**8.7**	**5.7**	**6.8**	**5.2**	**6.3**	**5.4**	100 mg/kg
Barium	-	34	27	39	25	12	22	29	20	41	10	280	18	43	23	40	18	2,000 mg/kg
Cadmium	8	0.38	0.31	0.48	0.38	0.31	0.35	0.34	0.28	0.56	0.24	0.82	0.34	0.40	0.50	0.78	0.33	20 mg/kg
Chromium	16,000 (tri)	16	14	14	15	6.1	12	9.9	12	29	6.0	22	12	15	15	19	12	100 mg/kg
Lead	50	43	7.2	25	13	28	7.5	**270**	7.6	**1,400**	5.3	**520**	10	11	**310**	**83**	8.3	100 mg/kg
Selenium	-	<0.30	<0.28	<0.28	<0.33	<0.26	<0.28	<0.30	<0.28	<0.31	<0.35	0.74 J	<0.30	<0.31	0.34 J	<0.28	<0.30	20 mg/kg
Silver	-	<0.064	<0.058	<0.059	<0.068	<0.055	<0.059	<0.062	<0.058	<0.064	<0.073	0.081 J	<0.064	<0.064	<0.057	0.098 J	<0.064	100 mg/kg
Mercury	-	0.011 J	<0.0079	0.05	0.027	0.011 J	0.0092 J	0.022	0.012 J	0.032	<.0095	0.18	0.011 J	0.016	0.013 J	0.032	0.012 J	4 mg/kg
TCLP Metals (mg/l)																		
Lead	-	--	--	--	--	--	--	--	--	2.1	--	--	--	--	--	--	--	<5.0 mg/l

Notes:

Created by: D. Heeter 5-16-13
Checked by: B. Bergmann 5-16-13

1. PID = Photoionization Detector
2. GRO = Gasoline Range Organics analyzed using the Wisconsin Modified Method
3. mg/kg = milligrams per kilogram (ppm)
4. DRO = Diesel Range Organics analyzed using Wisconsin Modified Method
5. PVOCs = Petroleum Volatile Organic Compounds analyzed using EPA Method 8021
6. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B
7. µg/kg = micrograms per kilogram (ppb)
8. Total metals analyzed using EPA Method 6010
9. TCLP = Toxicity Characteristic Leaching Procedure
10. - - = not analyzed
11. Samples were collected by TRC and analyzed by Test America (WDNR Cert. #999580010)
12. NR 720 RCL = Residual Contaminant Level from NR 720, WAC. RCL listed for DRO and GRO are the more stringent of the two NR 720.09 values. RCLs for the PVOCs/VOCs listed above are the NR720 generic RCLs for the protection of groundwater. RCLs for metals are the NR 720 Table 2 non-industrial values
13. - = Standard not established.
14. J = Result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value.
15. Results in **BOLD** indicate an exceedence (or potential exceedence if J-flagged) of the NR 720 RCL
16. ND = Not Detected

STATE PROJECT NUMBER

1228-02-63

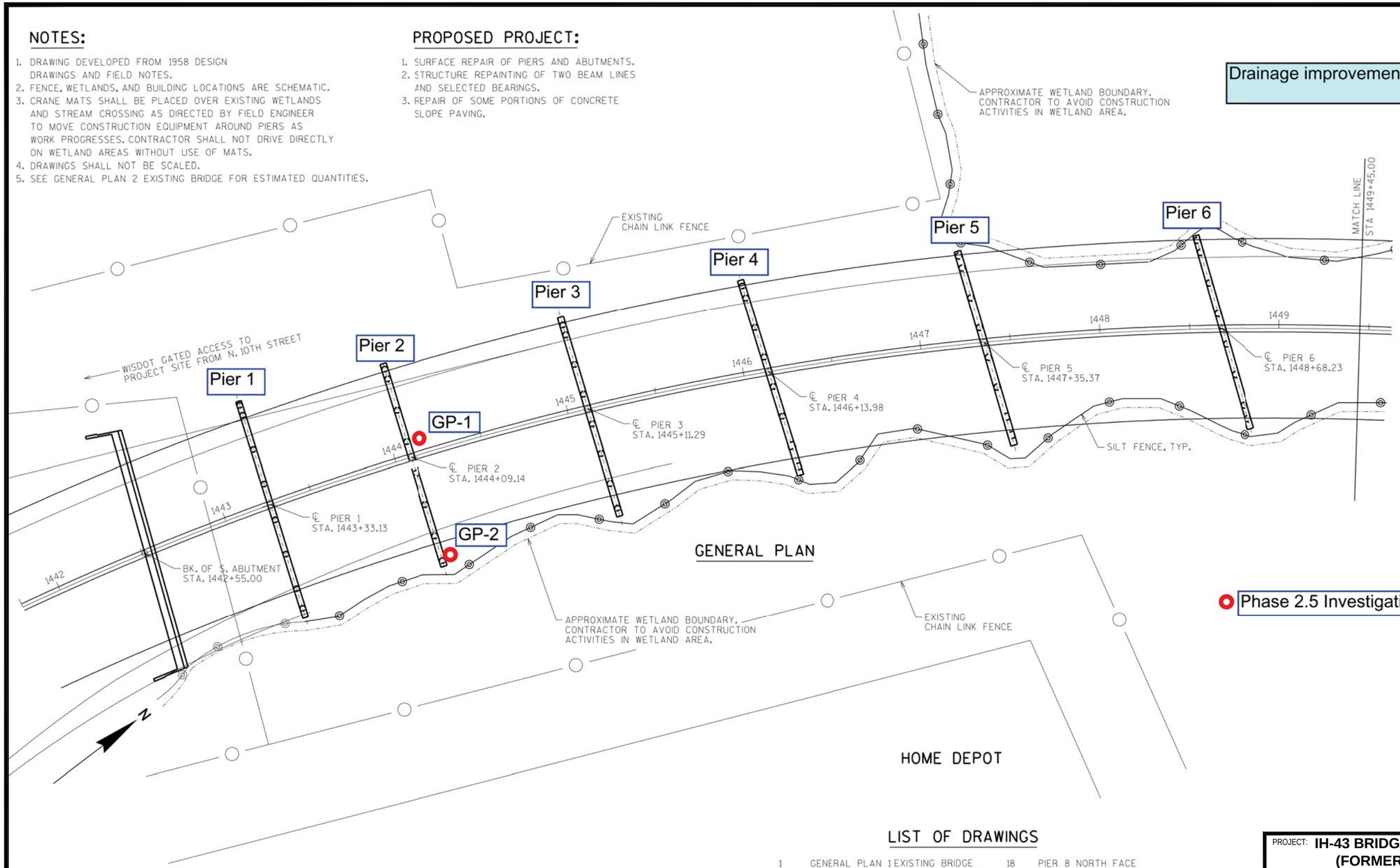
Drainage improvements to be shown on this plan

NOTES:

1. DRAWING DEVELOPED FROM 1958 DESIGN DRAWINGS AND FIELD NOTES.
2. FENCE, WETLANDS, AND BUILDING LOCATIONS ARE SCHEMATIC.
3. CRANE MATS SHALL BE PLACED OVER EXISTING WETLANDS AND STREAM CROSSING AS DIRECTED BY FIELD ENGINEER TO MOVE CONSTRUCTION EQUIPMENT AROUND PIERS AS WORK PROGRESSES. CONTRACTOR SHALL NOT DRIVE DIRECTLY ON WETLAND AREAS WITHOUT USE OF MATS.
4. DRAWINGS SHALL NOT BE SCALED.
5. SEE GENERAL PLAN 2 EXISTING BRIDGE FOR ESTIMATED QUANTITIES.

PROPOSED PROJECT:

1. SURFACE REPAIR OF PIERS AND ABUTMENTS.
2. STRUCTURE REPAINTING OF TWO BEAM LINES AND SELECTED BEARINGS.
3. REPAIR OF SOME PORTIONS OF CONCRETE SLOPE PAVING.



GENERAL PLAN

Phase 2.5 Investigation Soil Boring - 4/25/13

TOTAL ESTIMATED QUANTITIES

BID ITEM	DESCRIPTION	UNITS	TOTAL
502.6500	PROTECTIVE COATING CLEAR	GAL	21
514.2625	DOWNSPOUTS 6 IN	LF	294
517.1800.S	STRUCTURE REPAINTING RECYCLED ABBRASIVE (STR. B-40-115)	LS	1
517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STR. B-40-115)	LS	1
517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1
SPV. 0165.02	CONCRETE SURFACE REPAIR (PROJECT 1228-02-63)	SF	1769
SPV. 0180	SLOPE PAVING REPAIR	SY	204

Base Map Provided by the WisDOT

LIST OF DRAWINGS

1 GENERAL PLAN 1 EXISTING BRIDGE
2 GENERAL PLAN 2 EXISTING BRIDGE
3 SOUTH ABUTMENT
4 PIER 1 NORTH FACE
5 PIER 1 SOUTH FACE
6 PIER 2 NORTH FACE
7 PIER 2 SOUTH FACE
8 PIER 3 NORTH FACE
9 PIER 3 SOUTH FACE
10 PIER 4 NORTH FACE
11 PIER 4 SOUTH FACE
12 PIER 5 NORTH FACE
13 PIER 5 SOUTH FACE
14 PIER 6 NORTH FACE
15 PIER 6 SOUTH FACE
16 PIER 7 NORTH FACE
17 PIER 7 SOUTH FACE
18 PIER 8 NORTH FACE
19 PIER 8 SOUTH FACE
20 PIER 9 NORTH FACE
21 PIER 9 SOUTH FACE
22 PIER 10 NORTH FACE
23 PIER 10 SOUTH FACE
24 PIER 11 NORTH FACE
25 PIER 11 SOUTH FACE
26 NORTH ABUTMENT
27 SLOPEWALL DETAILS 1
28 SLOPEWALL DETAILS 2
29 GIRDER DETAILS 1
30 GIRDER DETAILS 2
31 DOWNSPOUTS REPAIR 1
32 DOWNSPOUTS REPAIR 2
33 DOWNSPOUTS REPAIR 3
34 DOWNSPOUT DETAILS

PROJECT: **IH-43 BRIDGE SOUTH OF HAMPTON AVE. (FORMER CMC GLENDALE YARDS) MILWAUKEE, WISCONSIN - WisDOT 1228-02-63**

SHEET TITLE: **PHASE 2.5 INVESTIGATION LOCATIONS- SOUTHERN PROJECT CORRIDOR**

DRAWN BY: J. KONIAR	SCALE: AS NOTED	PROJ. NO. 203231.0000.0000	
CHECKED BY: A. HEETER		FILE NO. 203231-01.dwg	
APPROVED BY: K. YASS	DATE PRINTED:	**FIGURE 1**	
DATE: MAY 2013			

TRC
150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

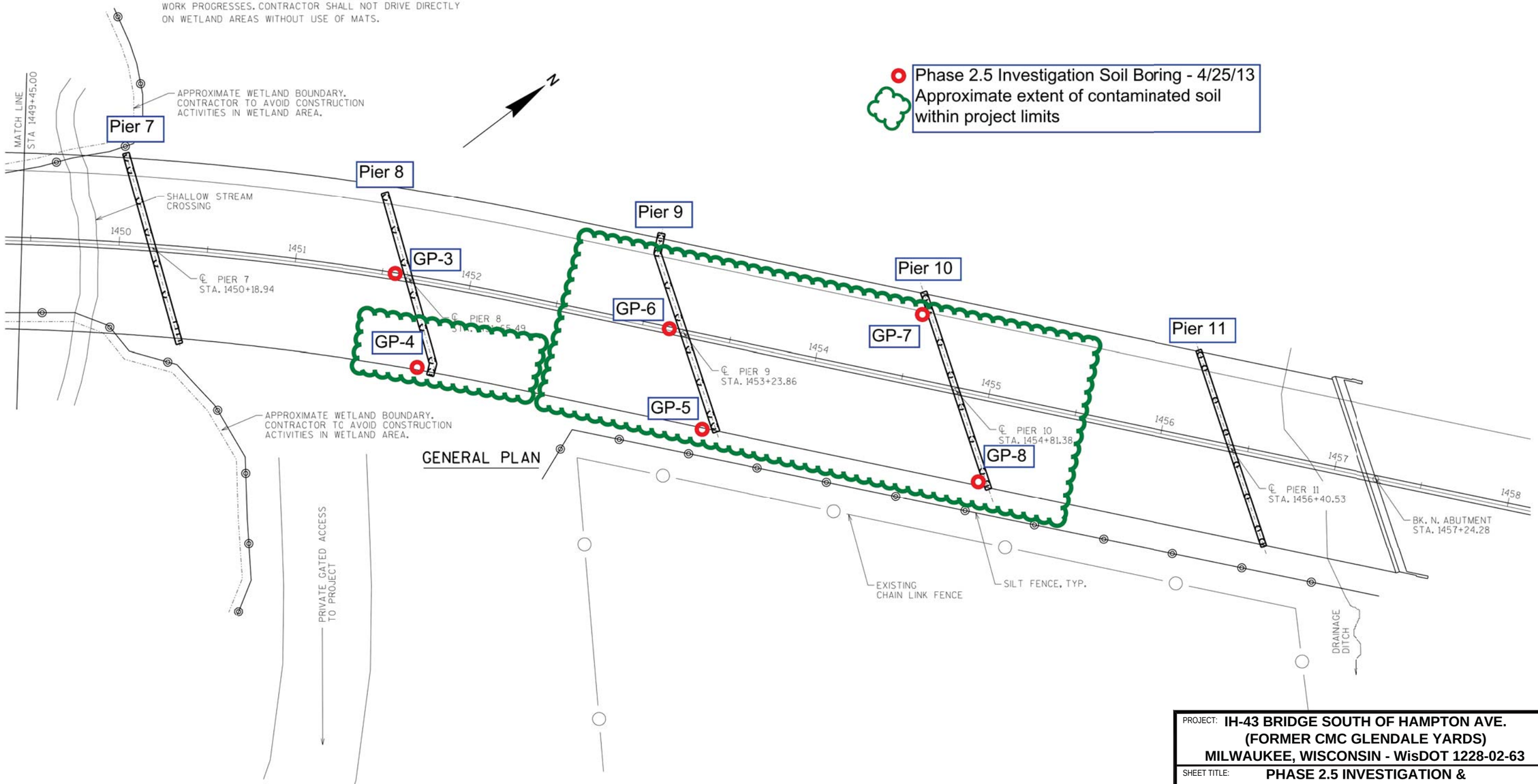
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Plot Date: May 20, 2013
Plot Time: 10:49 AM
Attached XrefS:
Attached Images:
Layout: FIG. 1

STATE PROJECT NUMBER

1228-02-63

NOTES:

1. DRAWING DEVELOPED FROM 1958 DESIGN DRAWINGS AND FIELD NOTES.
2. FENCE, WETLANDS, AND BUILDING LOCATIONS ARE SCHEMATIC.
3. CRANE MATS SHALL BE PLACED OVER EXISTING WETLANDS AND STREAM CROSSING AS DIRECTED BY FIELD ENGINEER TO MOVE CONSTRUCTION EQUIPMENT AROUND PIERS AS WORK PROGRESSES. CONTRACTOR SHALL NOT DRIVE DIRECTLY ON WETLAND AREAS WITHOUT USE OF MATS.



GENERAL PLAN

Base Map Provided by the WisDOT

PROJECT: **IH-43 BRIDGE SOUTH OF HAMPTON AVE. (FORMER CMC GLENDALE YARDS) MILWAUKEE, WISCONSIN - WisDOT 1228-02-63**

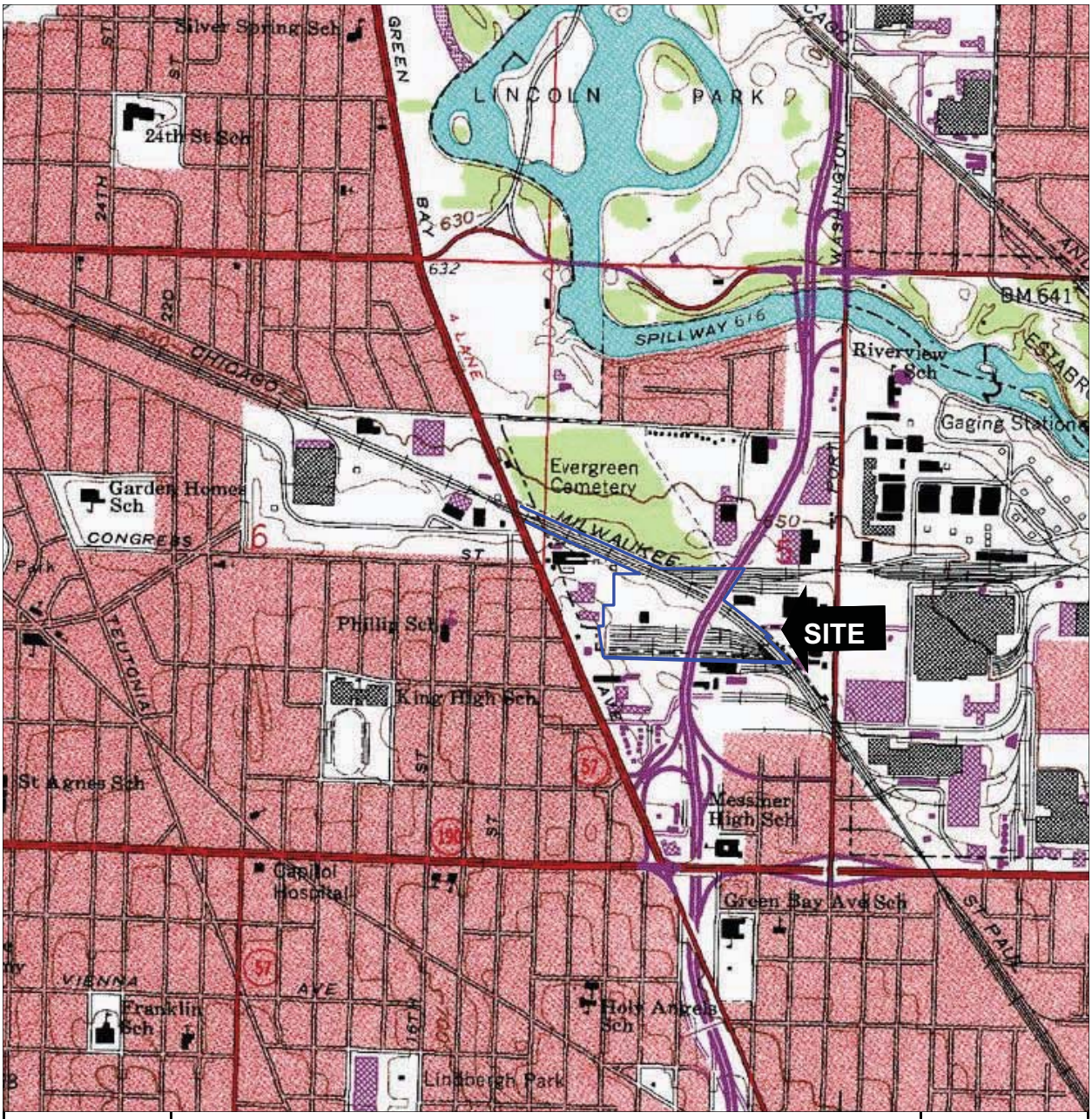
SHEET TITLE: **PHASE 2.5 INVESTIGATION & CONTAMINATED SOIL LOCATIONS- NORTHERN PROJECT CORRIDOR**

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CHECKED BY: A. HEETER		FILE NO. 203231-02.dwg	
APPROVED BY: K. YASS	DATE PRINTED:	**FIGURE 2**	
DATE: MAY 2013			

TRC
150 North Patrick Blvd.
Suite 180
Brookfield, WI 53045
Phone: 262.879.1212

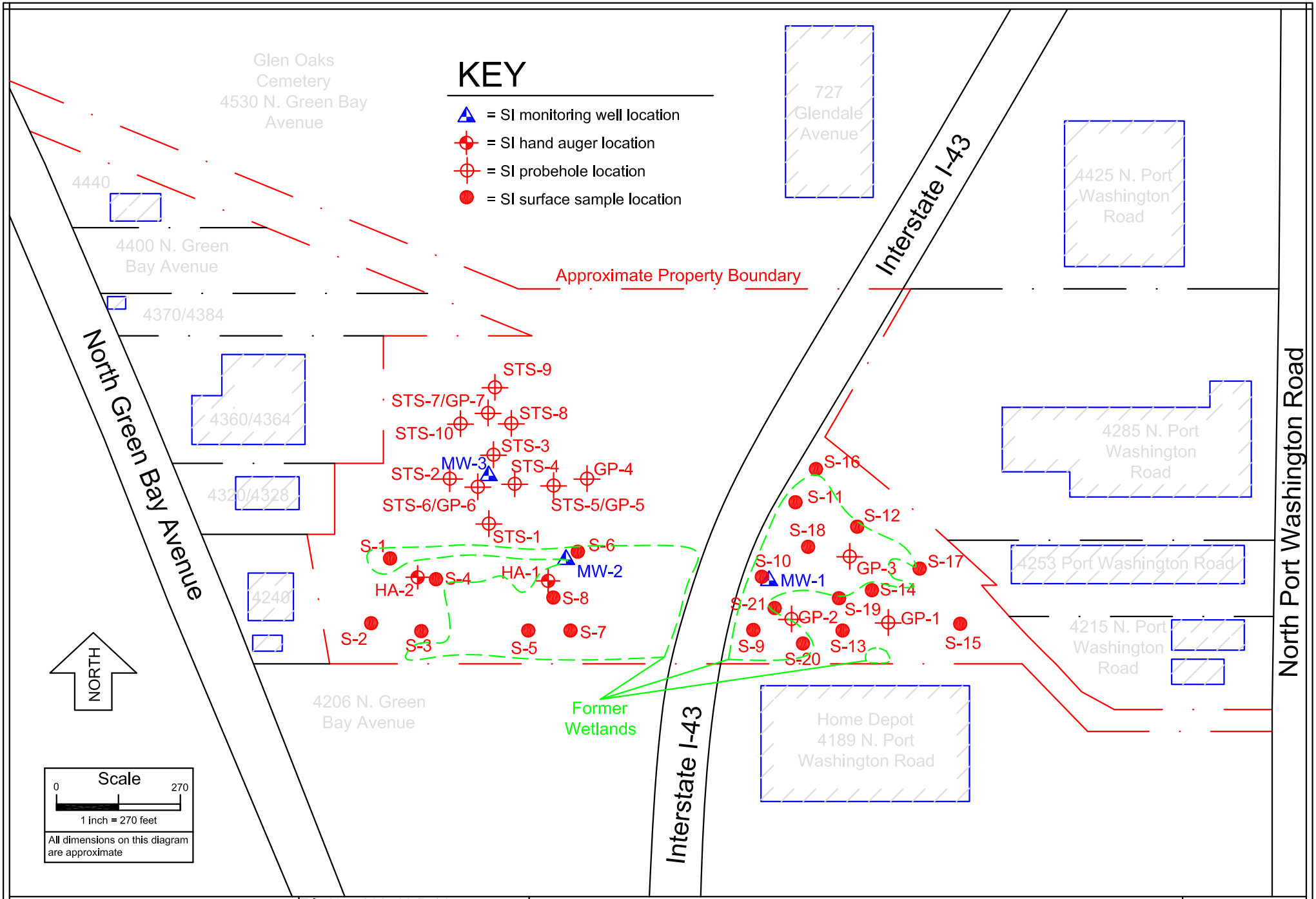
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Drawing Plot Scale: 0.386863
Dwg Size: 0.40 Mb
Plot Date: May 20, 2013
Plot Time: 10:47 AM
Attached Xrefs:
Attached Images:
Layout:



Approximate Scale 1" = 1,500'	United States Geological Survey Topographic Map Milwaukee Quadrangle N 1/2 of the SW 1/4 of Sec 5, T7N, R22E	NORTH

environmental & development solutions	Vicinity Diagram 4400 North Green Bay Avenue Glendale, Wisconsin	Figure B.1.a.



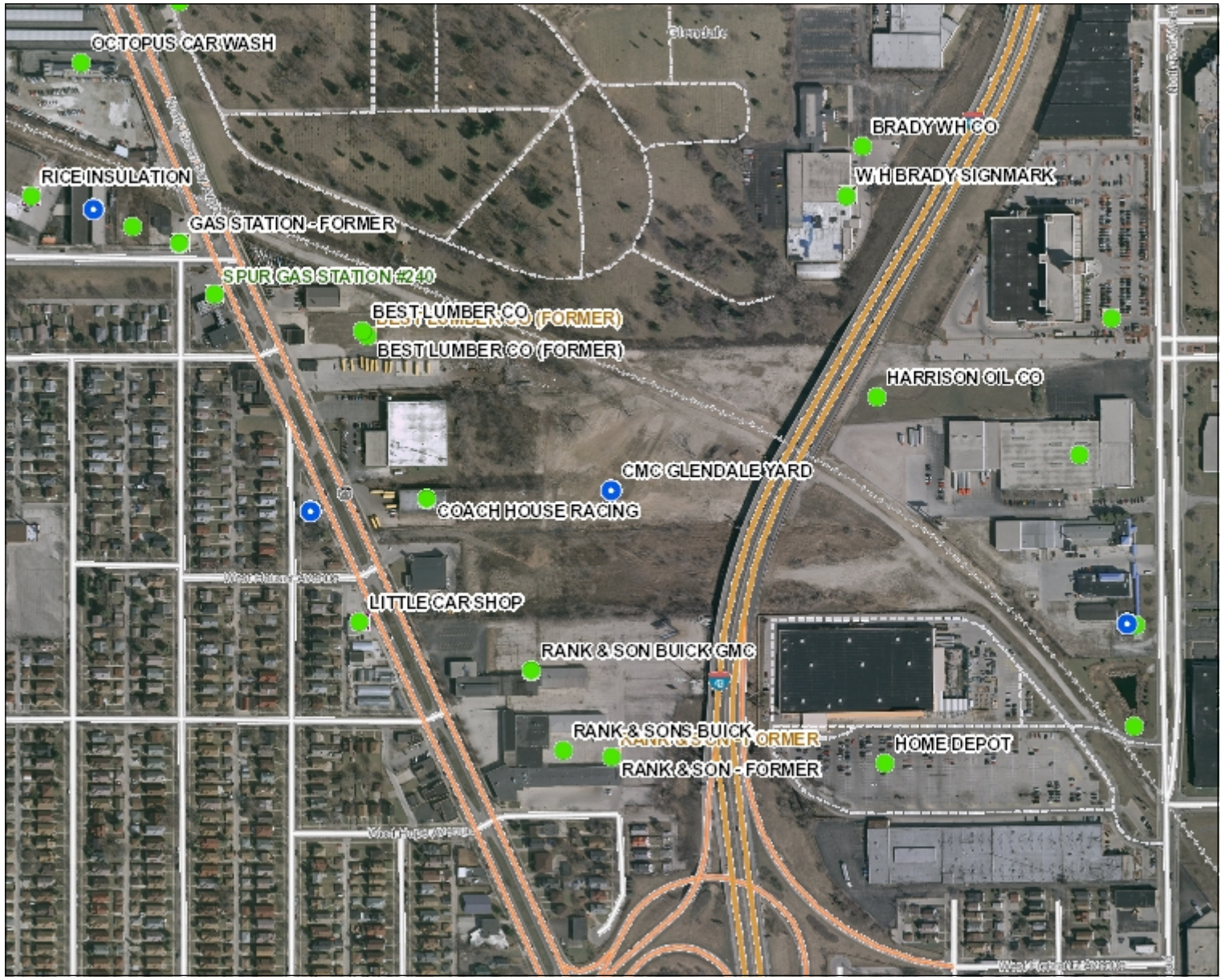
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DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.1.b. Site Features Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.1.b.

B.1.c. RR Site Map





Legend

- Open Site (ongoing cleanup)
- Open Site Boundary
- Closed Site (completed cleanup)
- Closed Site Boundary
- Groundwater Contamination
- Soil Contamination
- Groundwater and Soil Contamination
- Contamination From Another Property
- Dryclean Environmental Response Fund (DERF)
- Green Space Grant (2004-2009)
- Ready for Reuse
- Site Assessment Grant (2001-2009)
- State Funded Response
- Sustainable Urban Development Zone (S
- General Liability Clarification Letters
- Superfund NPL
- Voluntary Party Liability Exemption
- Rivers and Streams
- Open Water
- Municipality
- State Boundaries
- County Boundaries
- Major Roads
  - Interstate Highway
  - State Highway
  - US Highway

Notes

0.2 0 0.09 0.2 Miles

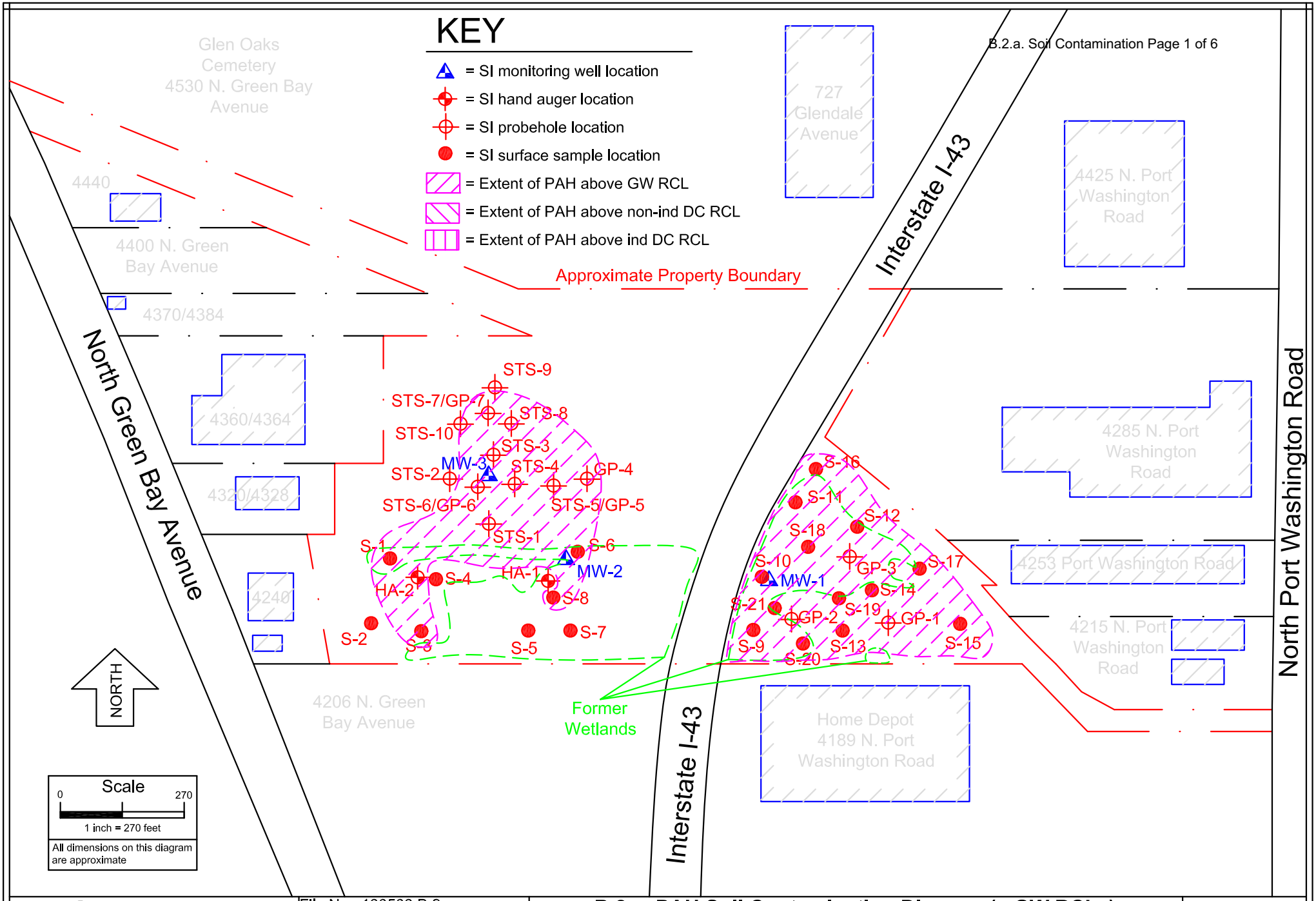
NAD_1983_HARN_Wisconsin_TM

© Latitude Geographics Group Ltd.

1: 5,570

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Note: Not all sites are mapped.

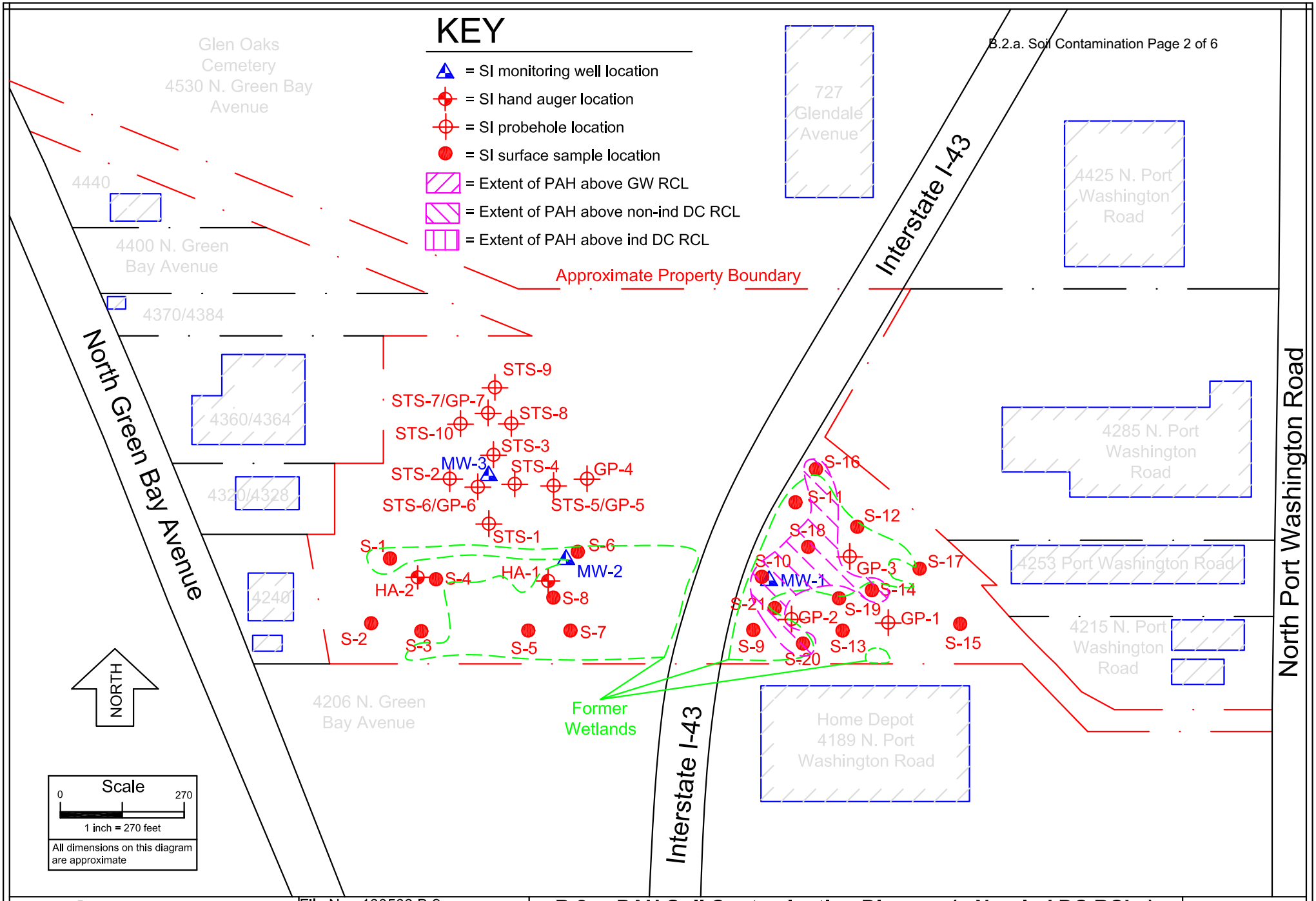


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Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. PAH Soil Contamination Diagram (> GW RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

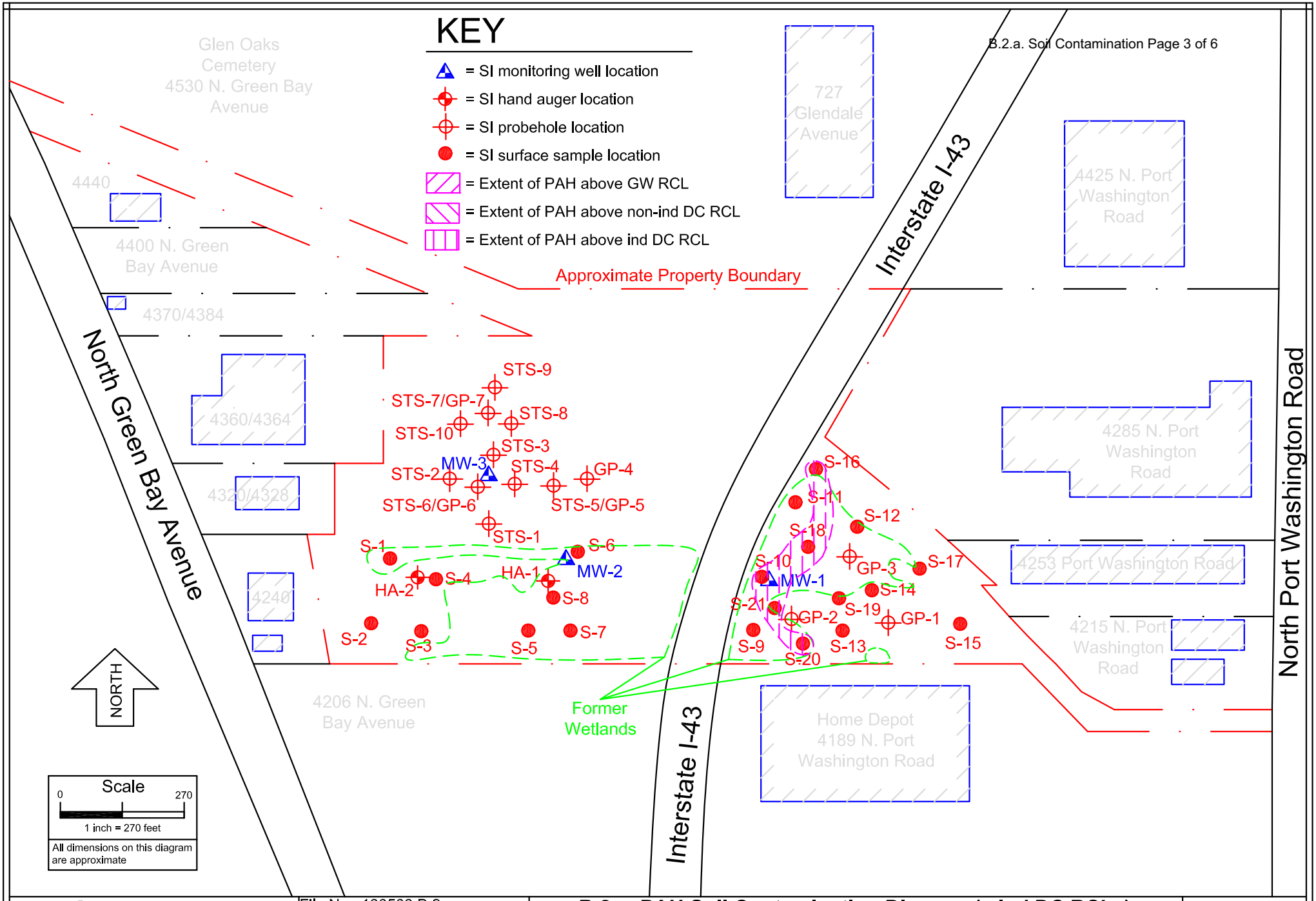


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DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. PAH Soil Contamination Diagram (> Non-Ind DC RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

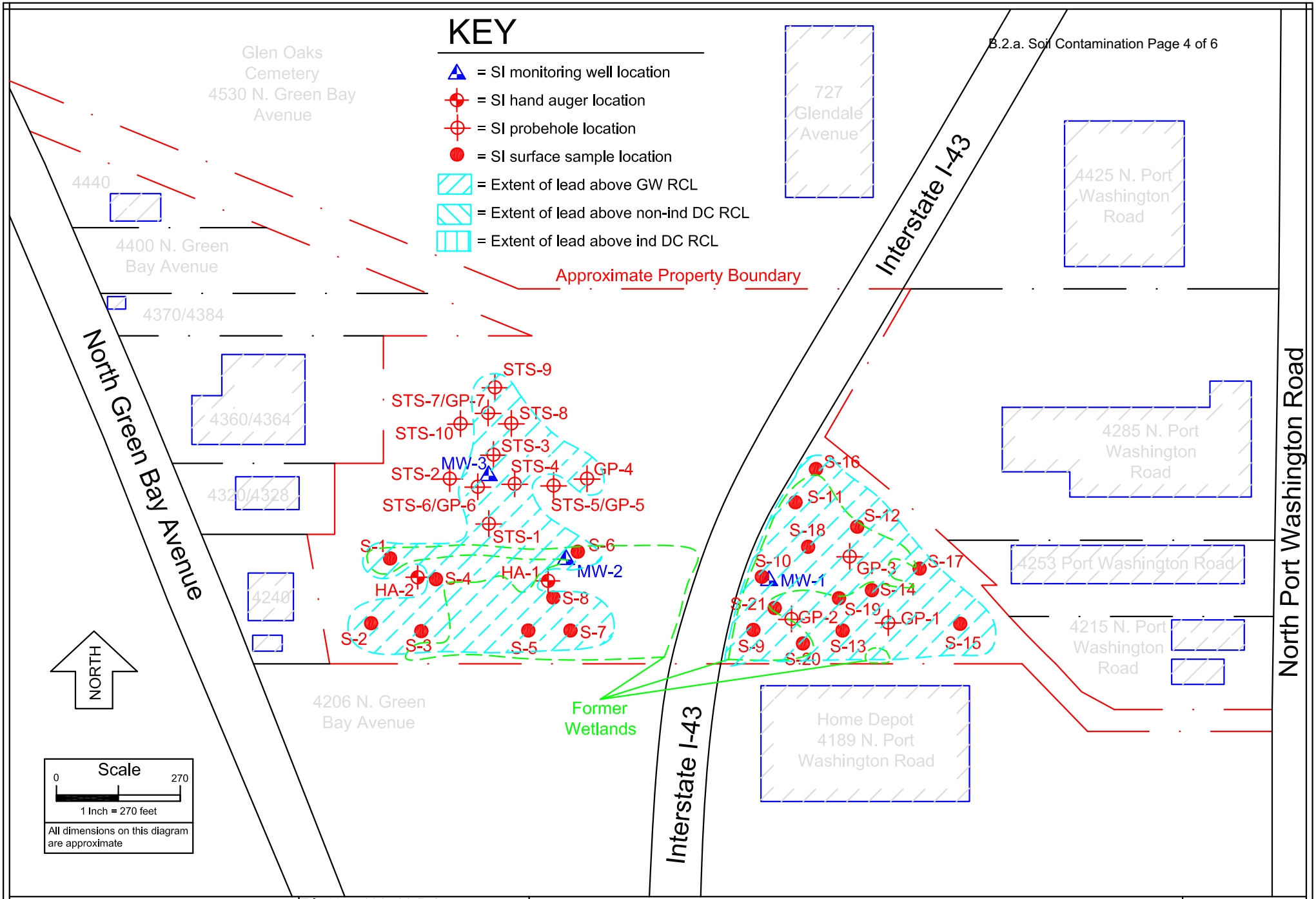


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DWG Date:	4-27-16
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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. PAH Soil Contamination Diagram (> Ind DC RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

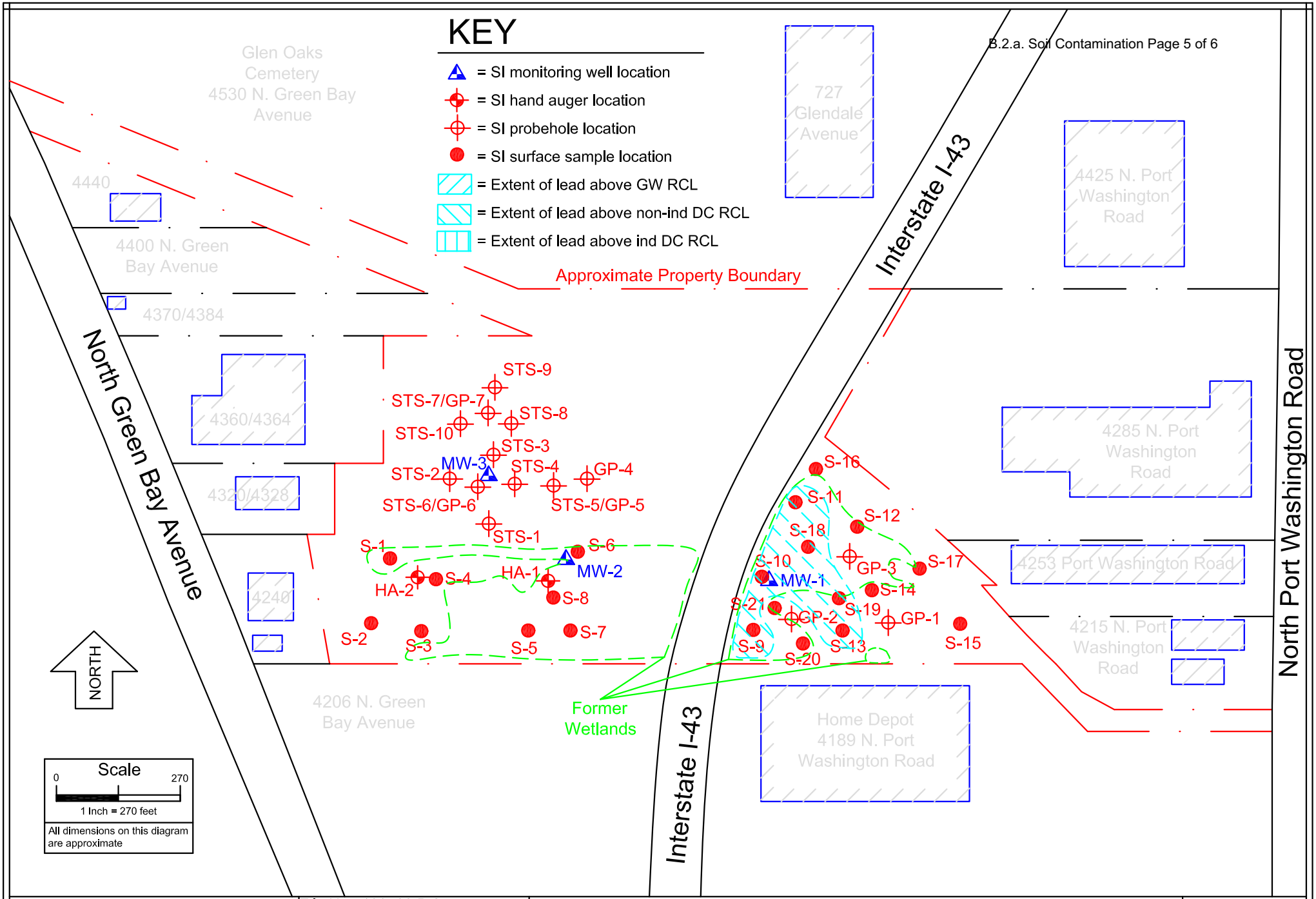


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DWG Date:	4-27-16
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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. Lead Soil Contamination Diagram (>GW RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

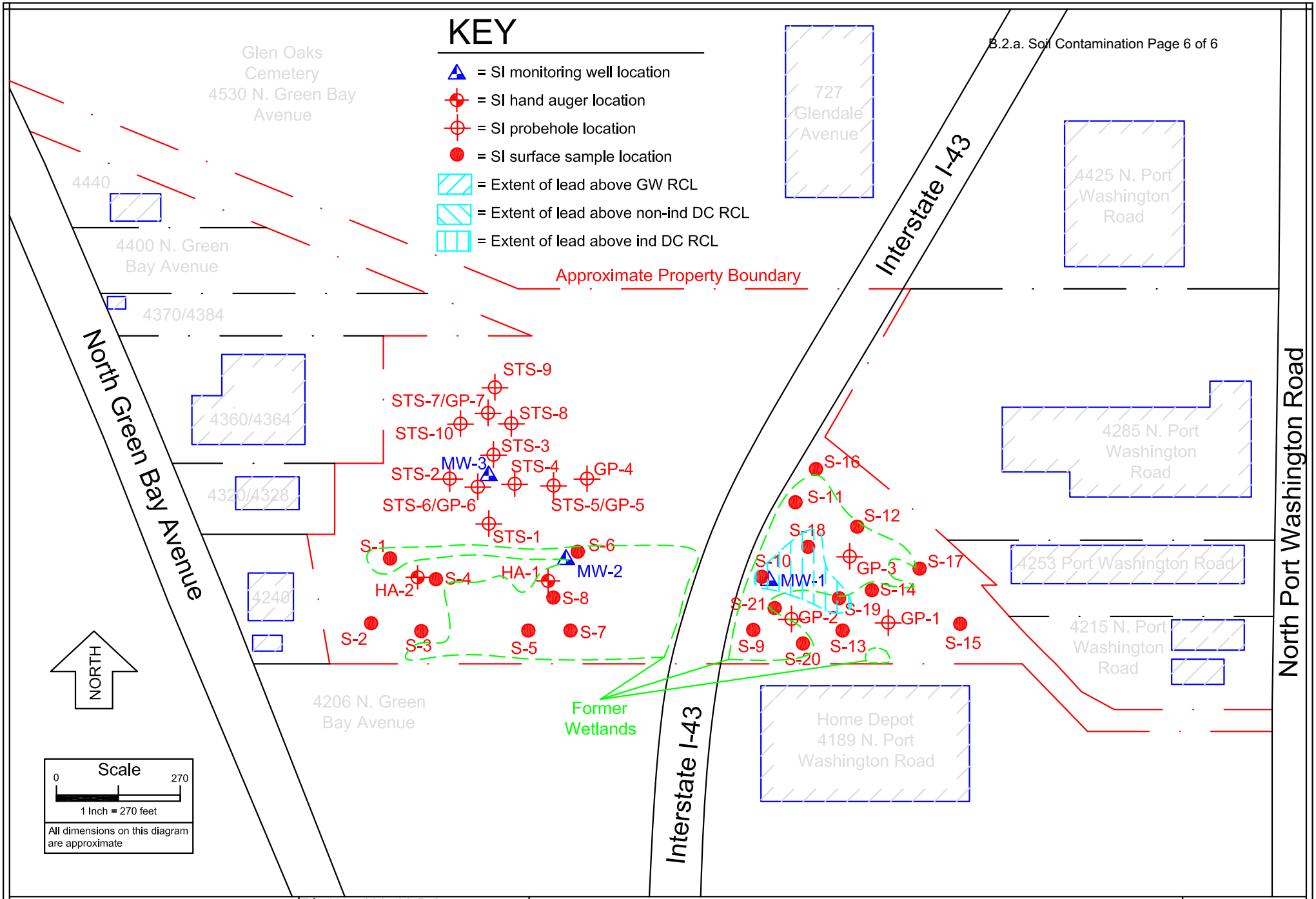


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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. Lead Soil Contamination Diagram (>Non-Ind DC RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

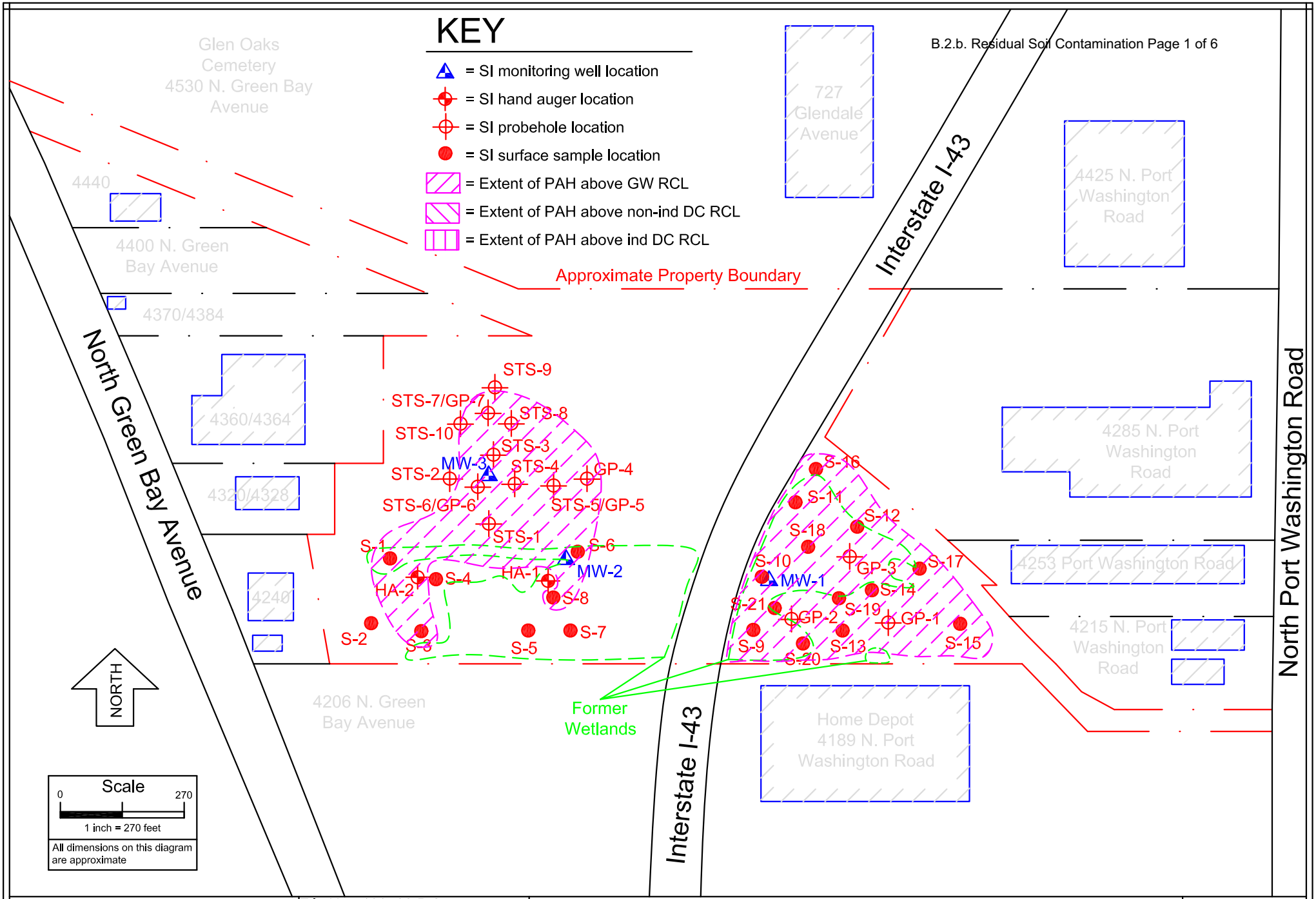


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FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.a. Lead Soil Contamination Diagram (>Ind DC RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.a.

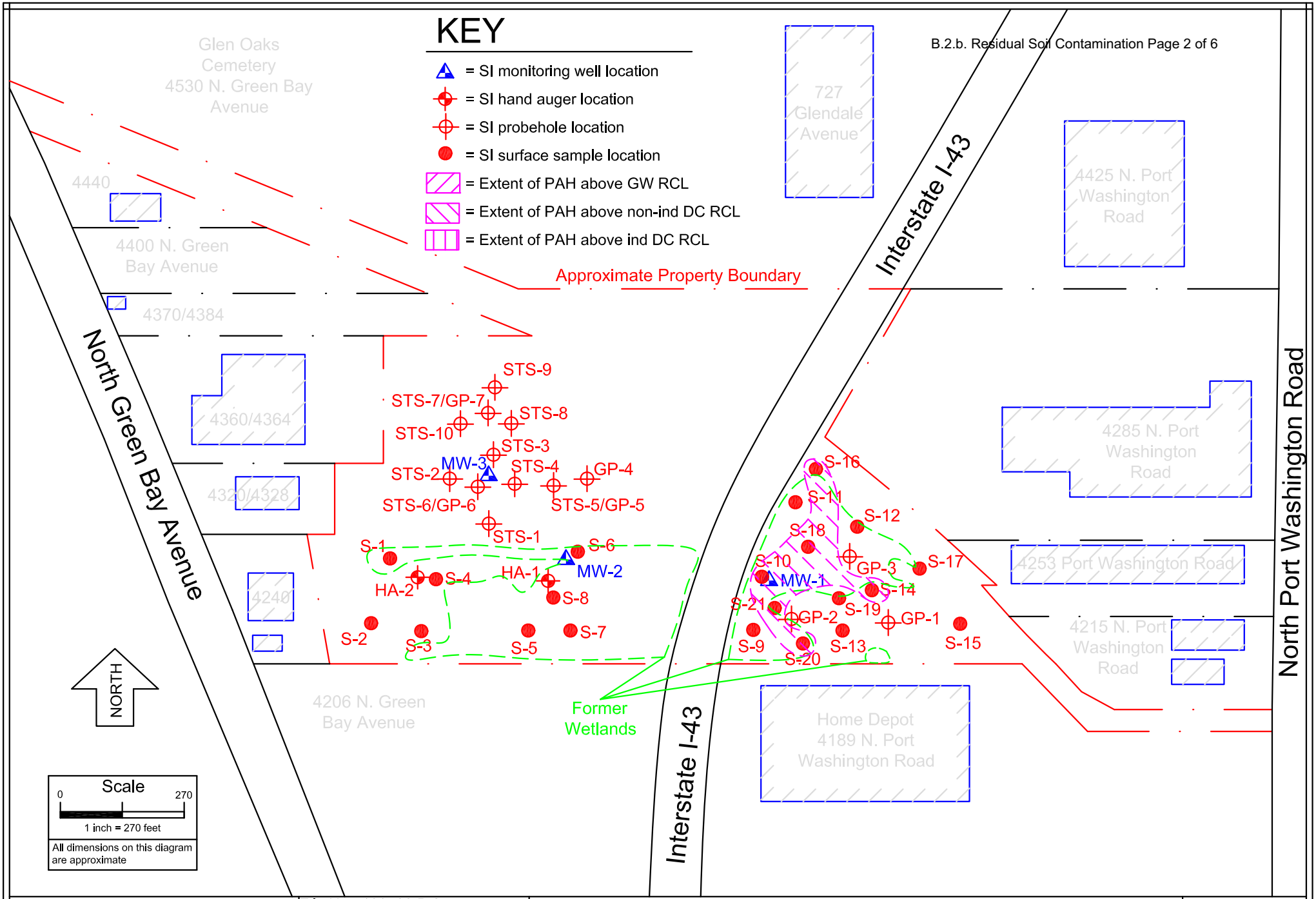


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Rev Date:	
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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.b. Residual PAH Soil Contamination Diagram (> GW RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.

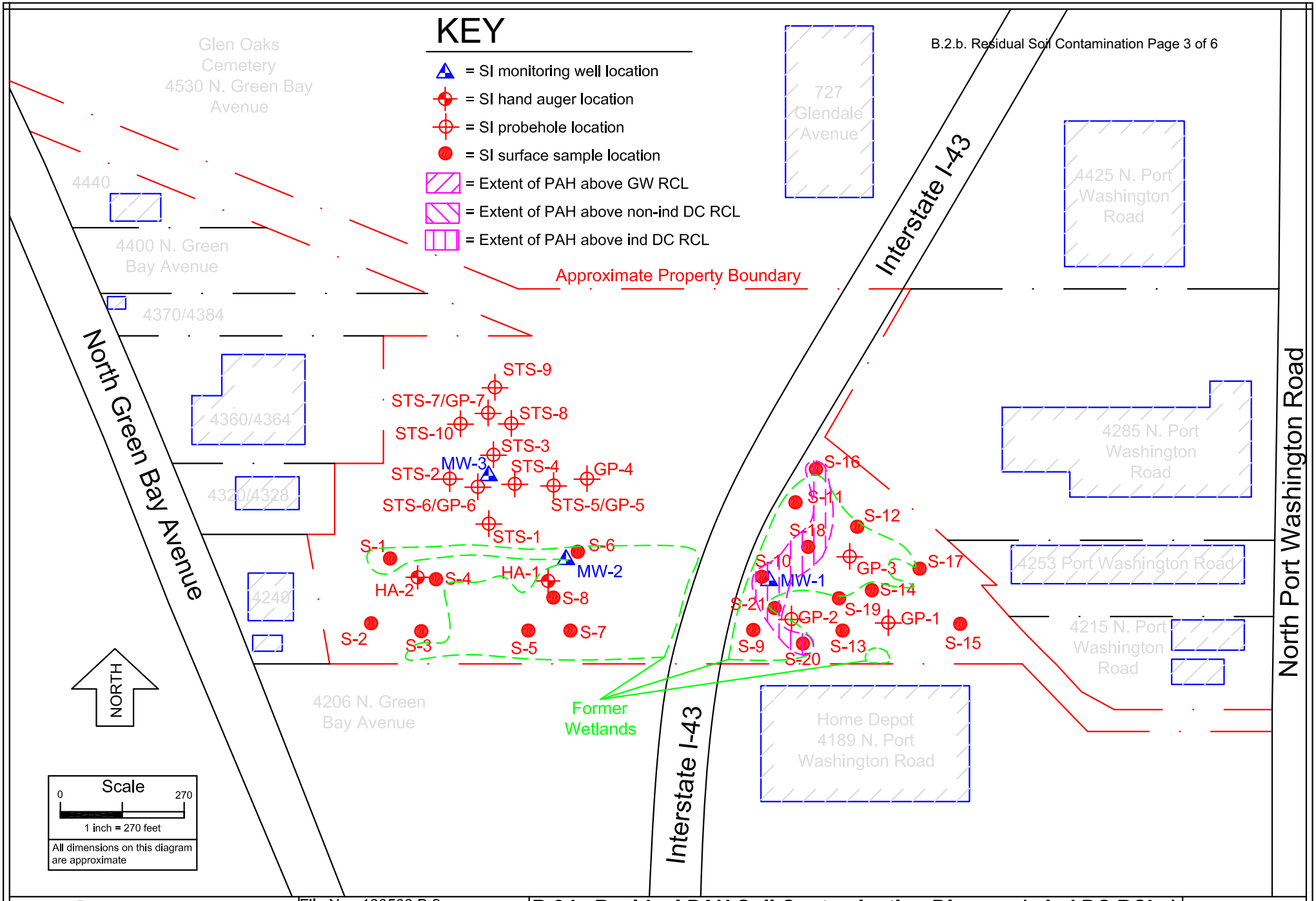


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Rev Date:	
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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.b. Residual PAH Soil Contamination Diagram (> NI DC RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.

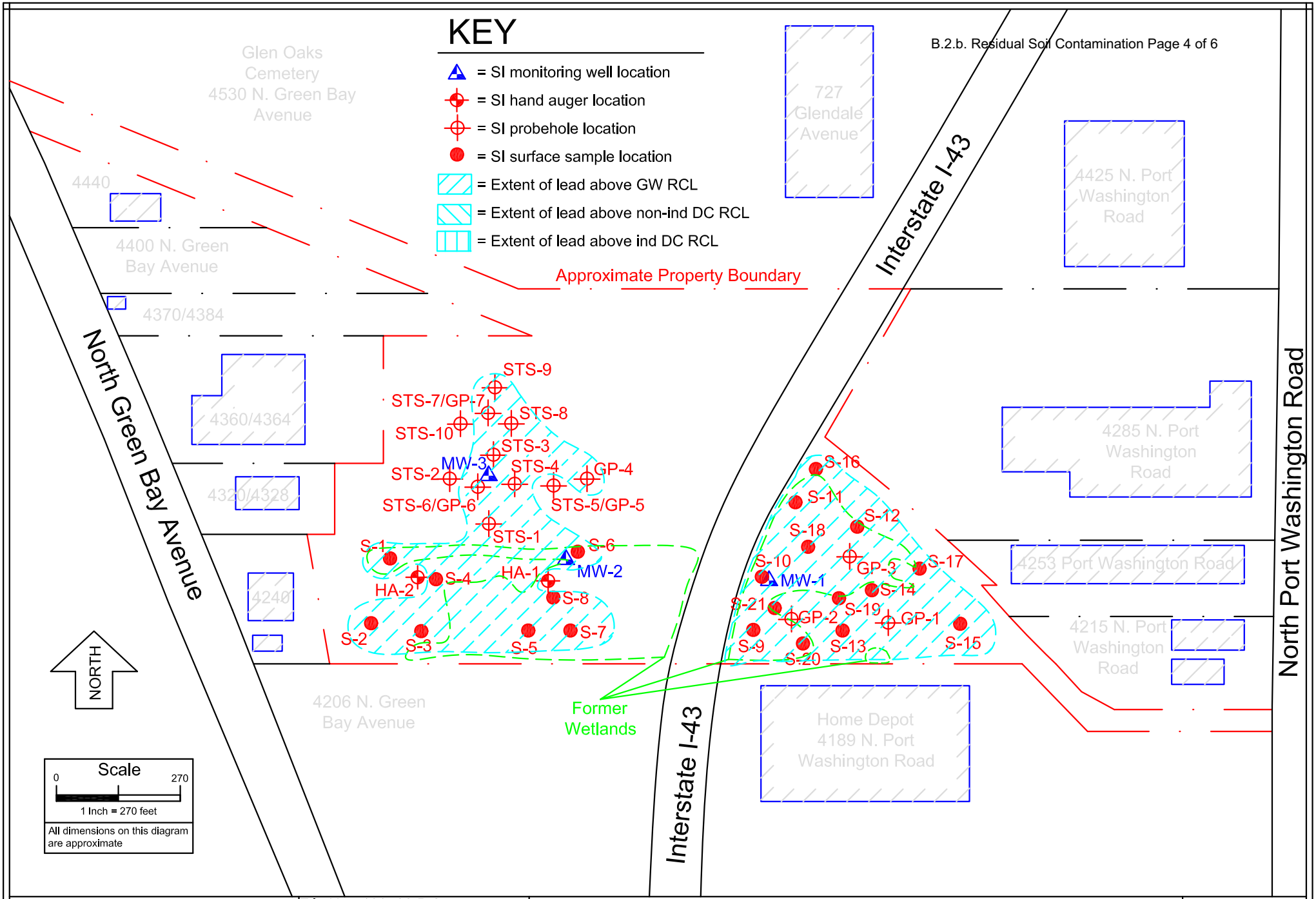


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DWG Date:	4-27-16
Rev Date:	
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Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.b. Residual PAH Soil Contamination Diagram (> Ind DC RCLs)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.

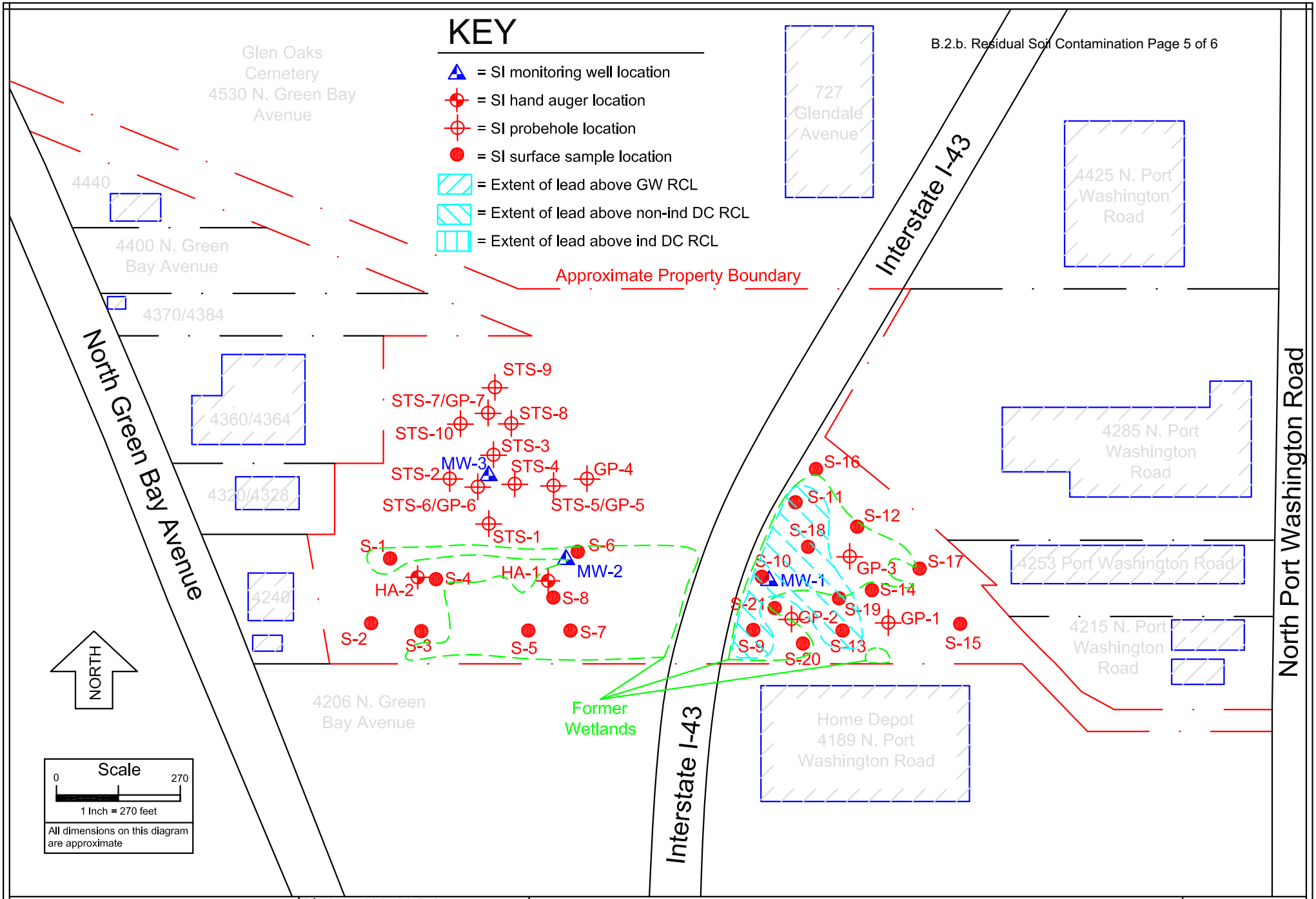


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DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.b. Residual Lead Soil Contamination Diagram (>GW RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.

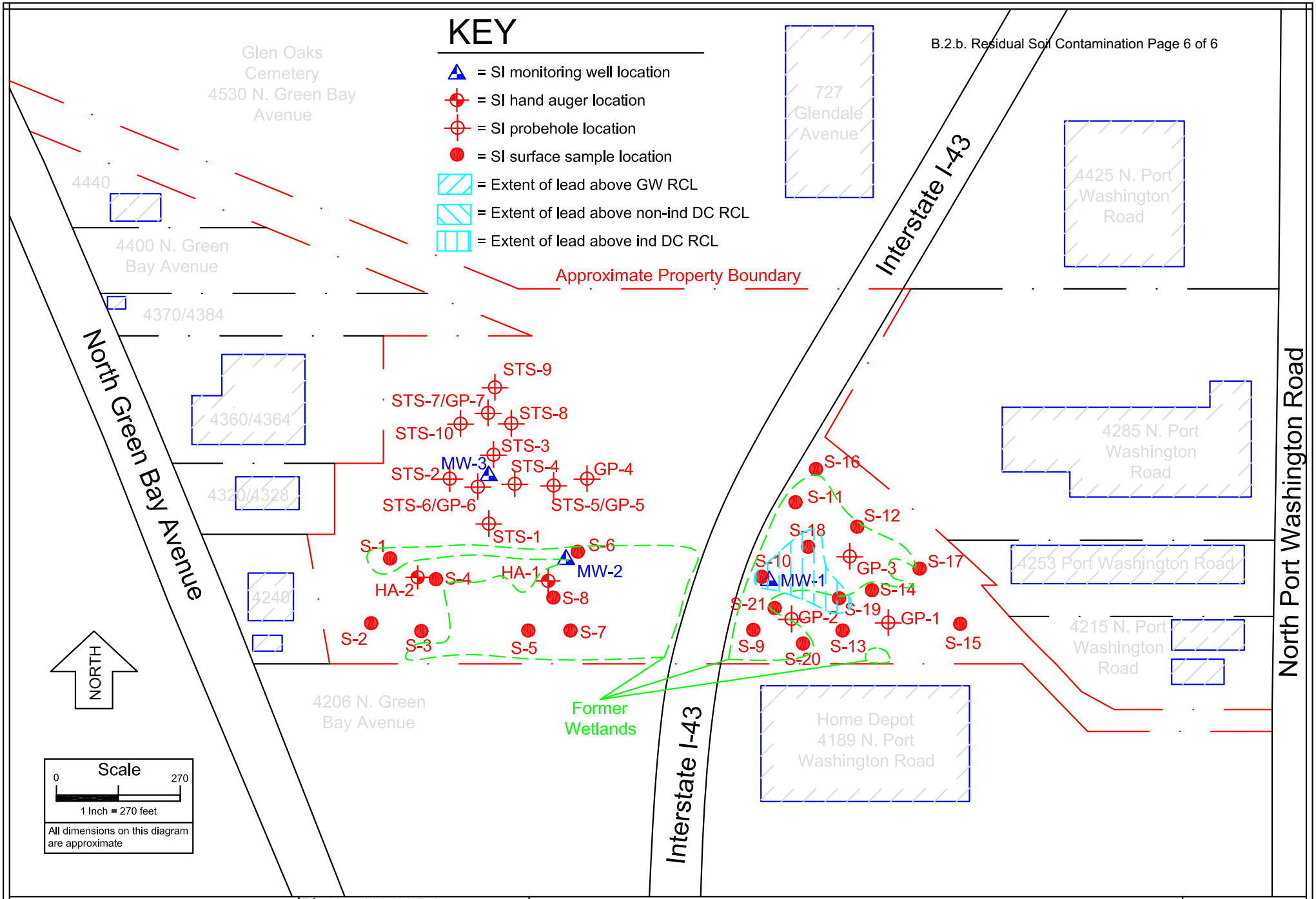


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Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

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B.2.b. Residual Pb Soil Contamination Diagram (>NI DC RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.

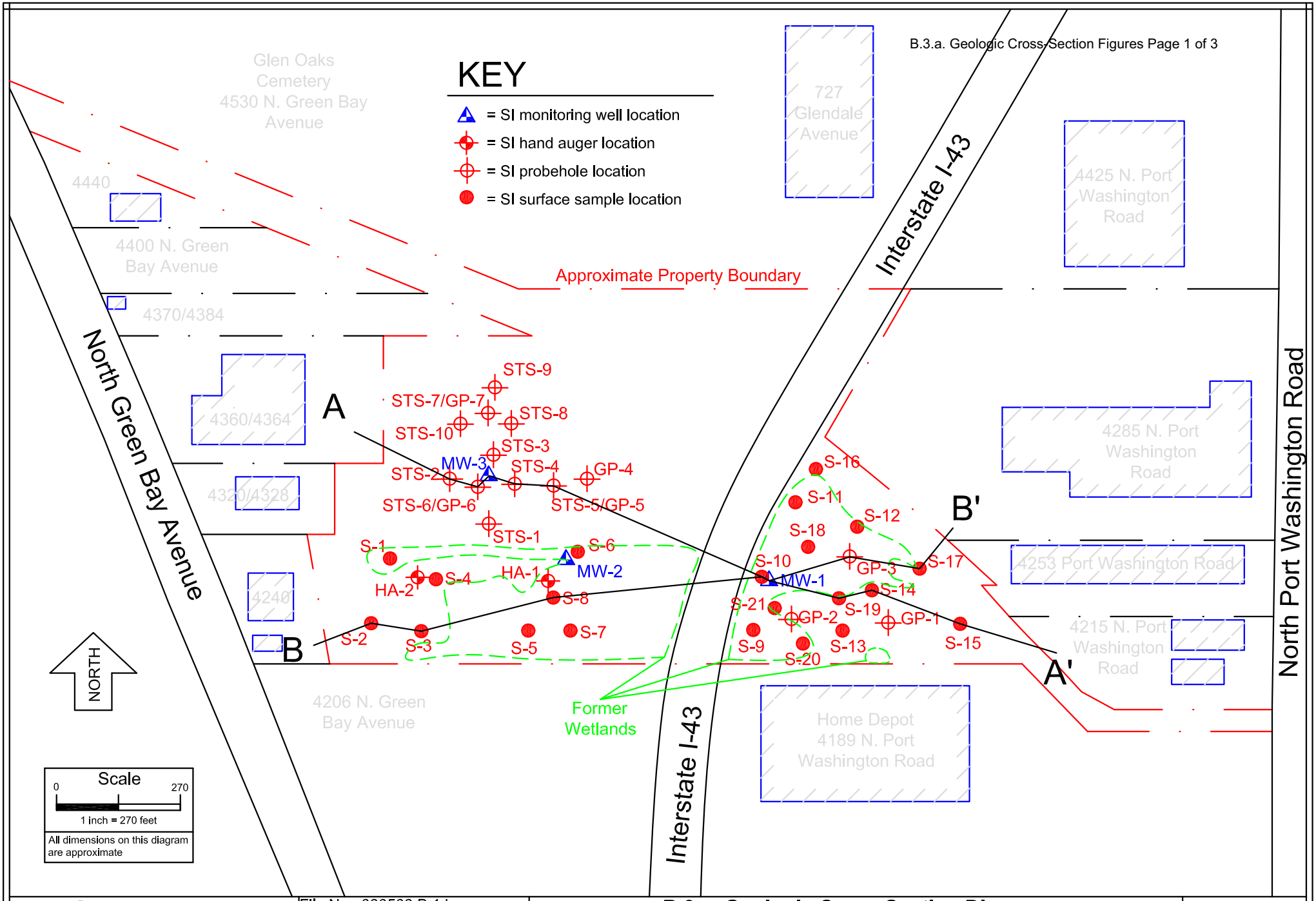


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DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.2.b. Residual Lead Soil Contamination Diagram (>Ind DC RCL)
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.2.b.



File No.:	030503 B.1.b.
DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

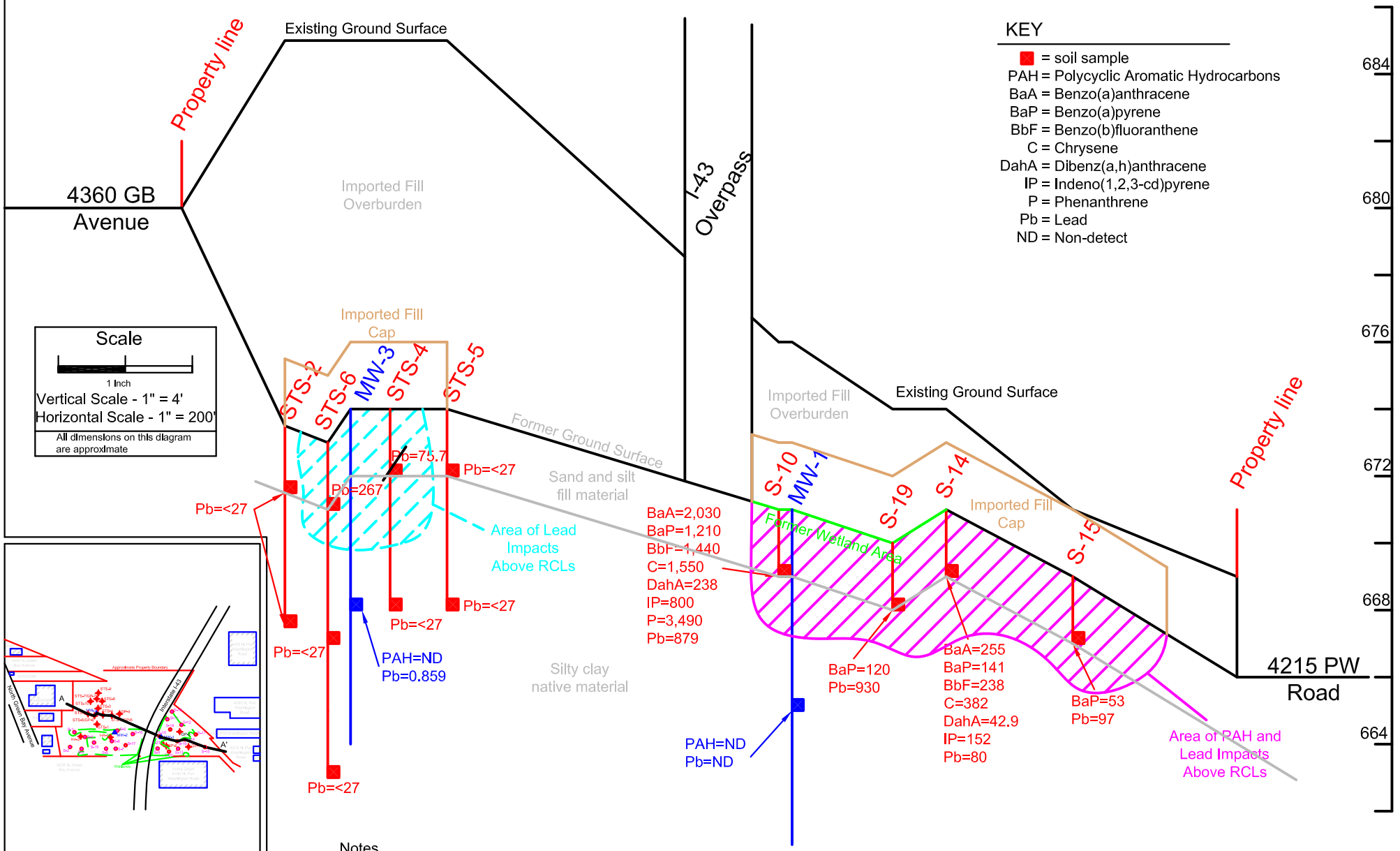
FRIESS ENVIRONMENTAL CONSULTING, INC.

B.3.a. Geologic Cross-Section Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.3.a.

A

A'



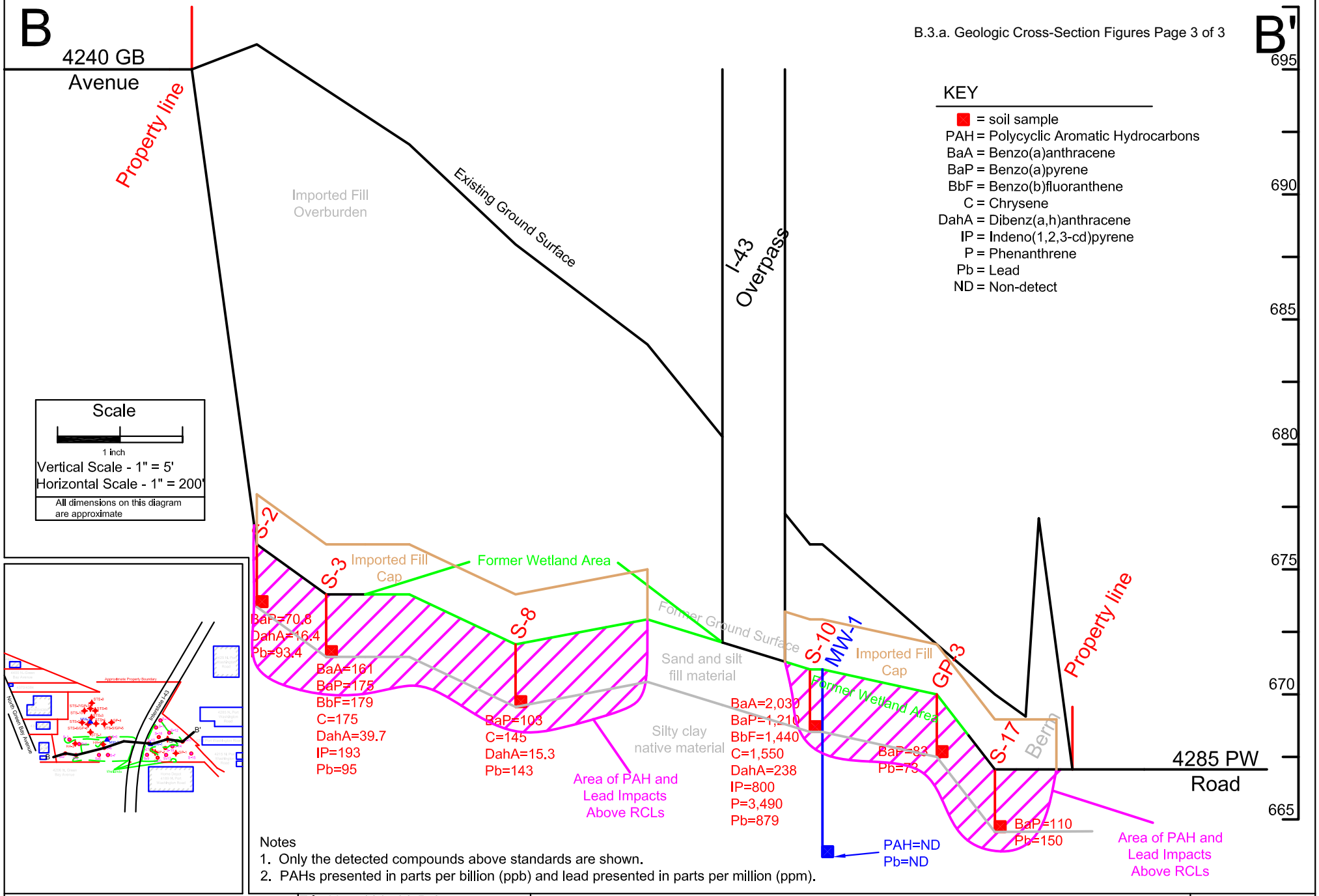
Notes
1. Only the detected compounds above standards are shown.
2. PAHs presented in parts per billion (ppb) and lead presented in parts per million (ppm).

FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.:	130503 B.3.a
DWG Date:	4-27-16
Rev Date:	4-27-16
Drawn By:	TJO
Checked By (PM):	TJO

B.3.a. Geologic Cross-Section Diagram (A-A')
Glendale Yards Property
Glendale, Wisconsin

Figure
B.3.a.



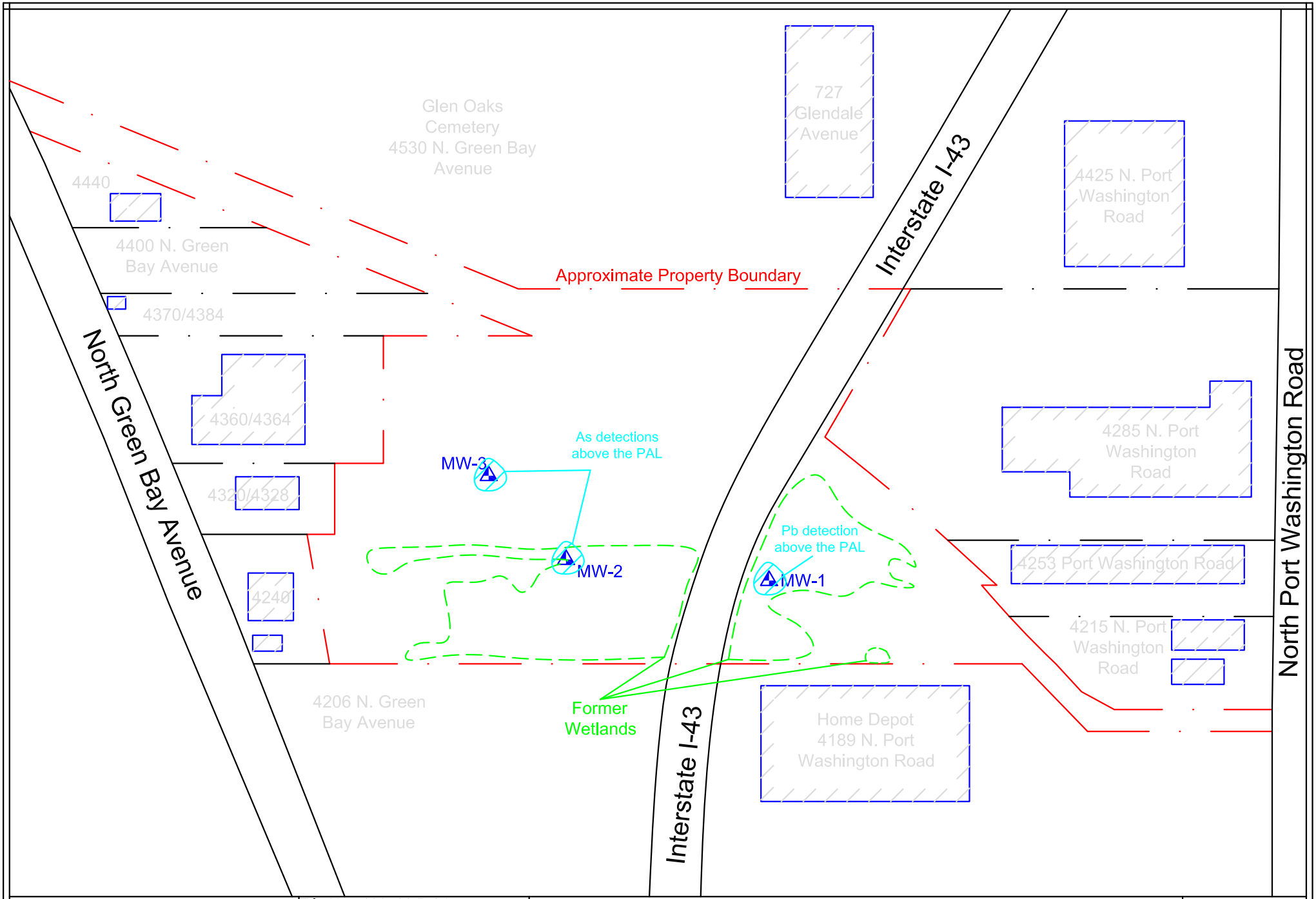
Notes
1. Only the detected compounds above standards are shown.
2. PAHs presented in parts per billion (ppb) and lead presented in parts per million (ppm).

FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.:	130503 B.3.a
DWG Date:	4-27-16
Rev Date:	4-27-16
Drawn By:	TJO
Checked By (PM):	TJO

B.3.a. Geologic Cross-Section Diagram (B-B')
Glendale Yards Property
Glendale, Wisconsin

Figure
B.3.a.

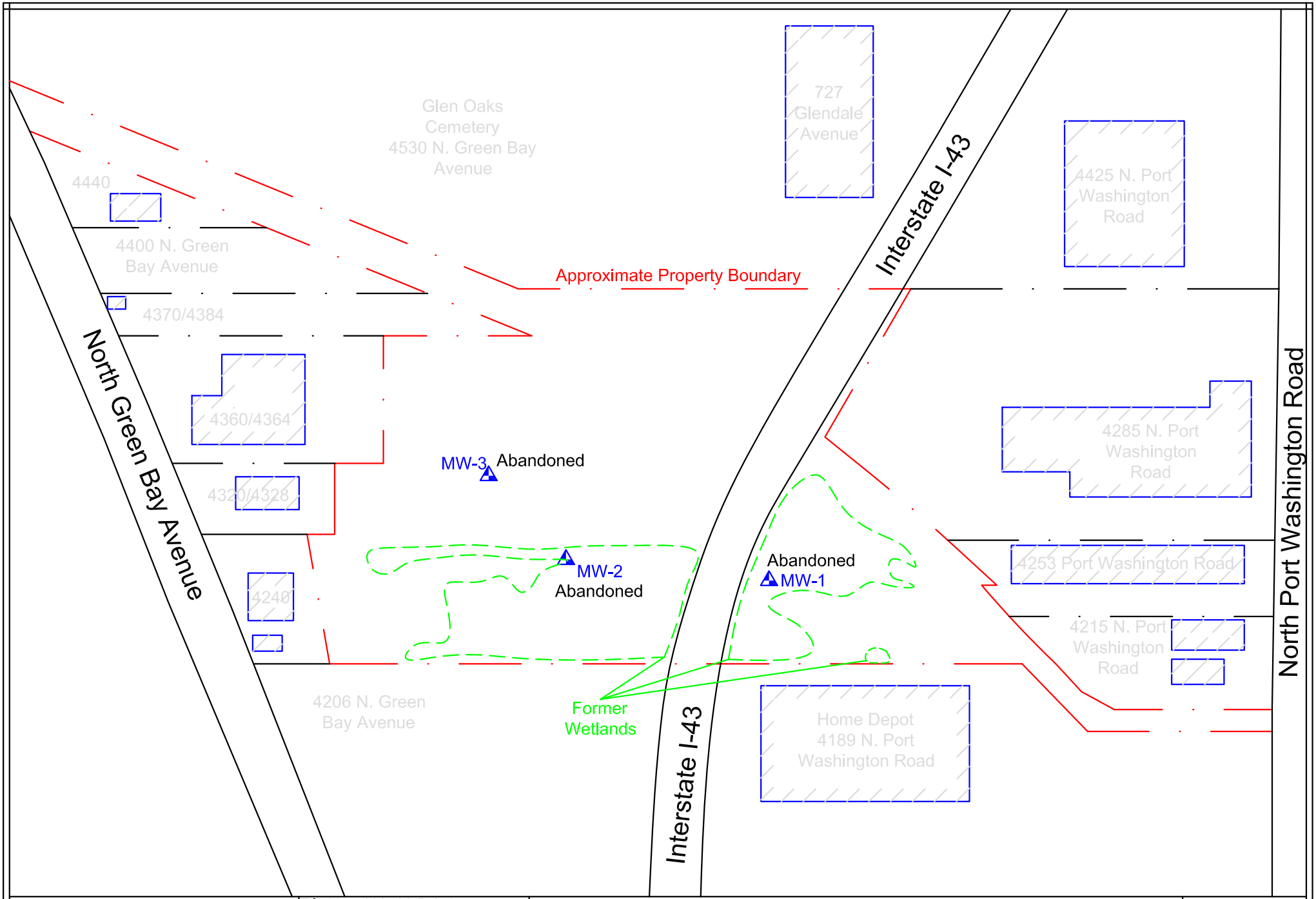


FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.: 130503 B.3.b
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Drawn By: TJO
Checked By (PM): TJO

B.3.b. Groundwater Isoconcentration Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.3.b.



FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.: 130503 B.3.d
DWG Date: 4-27-16
Rev Date:
Drawn By: TJO
Checked By (PM): TJO

B.3.d. Monitoring Wells Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.3.d.

Friess Environmental Consulting, Inc.
Guide to Abbreviations
in Laboratory Data Tables

< = Less than the specified detection limit.
DO = Dissolved Oxygen
ES = Enforcement Standard
DRO = Diesel range organics
GRO = Gasoline range organics
iu = instrument units
MTBE = Methyl-tert butyl ether
mV = Millivolts
NA = Not analyzed for indicated parameter
NM = Not measured for indicated parameter
NR = No recovery at this interval.
NR 140 ES = Wisconsin Administrative Code NR 140 Groundwater Quality Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code NR 140 Groundwater Quality Preventive Action Limit
NR 720 Groundwater RCL = Wisconsin Administrative Code NR 720 Residual Contaminant Level for the protection of groundwater via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
NR 720 Non-Industrial DC RCL = Wisconsin Administrative Code NR 720 Non-Industrial Residual Contaminant Level for direct contact via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.
NS = No NR 140 ES/PAL or NR 720 RCL standard has been established.
ORP = Oxidation-reduction potential
PAL = Preventive Action Limit
PID = Photoionization detector
ppb = parts per billion
ppm = parts per million
RCL = Residual contaminant level as established in WAC Chapter NR 720
S = Saturated - Sample collected below the observed low water table
TMBs = Trimethylbenzenes (combined 1,2,4- and 1,3,5-trimethylbenzene)
umhos = Micromhos
US = Unsaturated - Sample collected above the observed low water table

A.1. Groundwater Analytical Results Table
PAH Analytical Results - Groundwater Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthra-cene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthrene (ppb)	Flourene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
MW-1	5/5/2005	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.030	<0.030	<0.044
	7/22/2008	<0.15	<0.12	<0.057	<0.0094	<0.028	<0.019	<0.019	<0.019	<0.038	<0.028	<0.0094	<0.094	<0.028	<0.16	<0.16	<0.21	<0.028	<0.047
MW-2	5/5/2005	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.030	<0.030	<0.044
	7/22/2008	<0.15	<0.13	<0.058	<0.0096	<0.029	<0.019	<0.019	<0.019	<0.038	<0.029	<0.0096	<0.096	<0.029	<0.16	<0.16	<0.21	<0.029	<0.048
MW-3	5/5/2005	<0.33	<0.69	<0.038	<0.044	<0.032	<0.098	<0.12	<0.049	<0.041	<0.13	<0.081	<0.062	<0.062	<0.32	<0.31	<0.030	<0.030	<0.044
	7/22/2008	<0.15	<0.12	<0.057	<0.0094	<0.028	<0.019	<0.019	<0.019	<0.038	<0.028	<0.0094	<0.094	<0.028	<0.16	<0.16	<0.21	<0.028	<0.047
NR 140 ES		*NS*	*NS*	*3,000*	*NS*	*0.2*	*0.2*	*NS*	*NS*	*0.2*	*NS*	*400*	*400*	*NS*	*NS*	*NS*	*100*	*NS*	*250*
NR 140 PAL		*NS*	*NS*	*600*	*NS*	*0.02*	*0.02*	*NS*	*NS*	*0.02*	*NS*	*80*	*80*	*NS*	*NS*	*NS*	*10*	*NS*	*50*

Notes:

1. Only the detected compounds are presented.
2. Concentrations in ***blue italics*** exceed their respective NR 140 preventive action limits (PALs).
3. Concentrations in **red bold** exceed their respective NR 140 enforcement standards (ESs).
4. Data obtained from MSA Professional Services sampling.

A.1. Groundwater Analytical Results Table
Metals Analytical Results - Groundwater Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	Sampling Date	Arsenic (ppb)	Baruim (ppb)	Cadmium (ppb)	Chromium (ppb)	Lead (ppb)	Mercury (ppb)	Selenium (ppb)	Silver (ppb)
MW-1	5/5/2005	<10.0	260	<0.50	<2.10	<0.510	0.12	<10.0	<1.30
	7/22/2008	<0.80	130	<0.30	<4.00	*6.60*	<0.05	<4.00	<3.00
MW-2	5/5/2005	*3.36*	230	<0.50	<2.10	<0.510	<0.092	<10.0	<1.30
	7/22/2008	*1.40*	110	<0.30	<4.00	<1.40	<0.05	<4.00	<3.00
MW-3	5/5/2005	<10.0	310	<0.50	<2.10	0.859	0.13	<10.0	<1.30
	7/22/2008	*2.20*	21.0	<0.30	<4.00	<1.40	<0.05	<4.00	<3.00
NR 140 PAL	-	*1.0*	*400*	*0.5*	*10*	*1.5*	*0.2*	*10*	*10*
NR 140 ES	-	*10*	*2,000*	*5.0*	*100*	*15*	*2.0*	*50*	*50*

Note: Concentrations in ***blue italics*** exceed their respective NR 140 preventive action limits (PALs).

Note: Concentrations in **red bold** exceed their respective NR 140 enforcement standards (ESs).

Friess Environmental Consulting, Inc.
Guide to Abbreviations
in Laboratory Data Tables

< = Less than the specified detection limit.
DO = Dissolved Oxygen
ES = Enforcement Standard
DRO = Diesel range organics
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NR 140 ES = Wisconsin Administrative Code NR 140 Groundwater Quality Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code NR 140 Groundwater Quality Preventive Action Limit
NR 720 Groundwater RCL = Wisconsin Administrative Code NR 720 Residual Contaminant Level for the protection of groundwater via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
NR 720 Non-Industrial DC RCL = Wisconsin Administrative Code NR 720 Non-Industrial Residual Contaminant Level for direct contact via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.
NS = No NR 140 ES/PAL or NR 720 RCL standard has been established.
ORP = Oxidation-reduction potential
PAL = Preventive Action Limit
PID = Photoionization detector
ppb = parts per billion
ppm = parts per million
RCL = Residual contaminant level as established in WAC Chapter NR 720
S = Saturated - Sample collected below the observed low water table
TMBs = Trimethylbenzenes (combined 1,2,4- and 1,3,5-trimethylbenzene)
umhos = Micromhos
US = Unsaturated - Sample collected above the observed low water table

A.2. Soil Analytical Results Table (PAGE 1 OF 2)
PAH Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
GP-1: 0-2 FT	US	11/21/2003	<135	<269	<135	<67.3	30.8	<67.3	<135	<135	<135	31.0	<135	<135	<67.3	<135	<135	<121	<135	<135
GP-2: 0-2 FT	US	11/21/2003	<130	<261	<130	114	91.5	124	<130	<130	143	40.6	410	<130	76.3	164	<130	<126	174	173
GP-3: 0-2 FT	US	11/21/2003	<125	<249	<125	71.4	83.0	111	<125	<125	<125	<6.23	227	<125	106	134	<125	NR	<125	<125
GP-4: 0-2 FT	US	11/21/2003	<122	<244	<122	382	[431]	*517*	324	226	*423*	<6.09	868	<122	324	292	<122	NR	233	429
GP-5: 0-2 FT	US	11/21/2003	<116	<232	<116	400	[424]	*479*	326	226	*487*	64.1	1,170	<116	343	475	<116	NR	390	518
GP-6: 0-2 FT	US	11/21/2003	<131	<261	226	856	*[667]*	*1,130*	961	459	*1,140*	[928]	2,120	<131	872	964	<131	NR	1,120	1,080
GP-7: 0-2 FT	US	11/21/2003	1,470	<225	350	1,050	*[965]*	*1,230*	743	529	*1,130*	<5.62	2,310	118	776	<112	<112	NR	1,080	1,170
HA-1: 0-2 FT	US	11/21/2003	<118	<236	<118	<59.0	15.5	<59.0	<118	<118	<118	<5.90	<118	<118	<59.0	<118	<118	NR	<118	<118
HA-2: 0-2 FT	US	11/21/2003	<135	<269	<135	112	153	198	160	<135	*161*	31.8	322	<135	<67.3	<135	<135	NR	<135	148
STS-A1: 3 FT	US	6/4/2004	<121	<242	<121	<60.4	<6.04	<60.4	<121	<121	<121	<6.04	<121	<121	<60.4	<121	<121	NR	<121	<121
STS-A2: 3 FT	US	6/4/2004	<126	<251	<126	<62.8	16.0	<62.8	<126	<126	<126	6.57	<126	<126	<62.8	<126	<126	NR	<126	<126
S-1: 0-1 FT	US	12/2/2004	<214	*1,150*	<214	149	204	159	224	<214	*231*	36.6	<214	<214	139	<214	<214	<214	<214	<214
S-2: 0-1 FT	US	12/2/2004	<125	<249	<125	113	70.8	90.4	<125	<125	140	16.4	202	<125	<62.3	<125	<125	<125	<125	<125
S-3: 0-1 FT	US	12/2/2004	<130	<260	<130	161	175	179	326	<130	*175*	39.7	283	<130	193	<130	<130	<130	<130	<130
S-4: 0-1 FT	US	12/2/2004	<103	<205	<103	93.0	101	121	216	<103	122	17.5	175	<103	127	<103	<103	<103	<103	<103
S-5: 0-1 FT	US	12/2/2004	<129	<258	<129	76.8	79.8	101	159	<129	<129	20.5	141	<129	84.8	<129	<129	<22.1	<129	<129
NR 720 Groundwater RCL			**38,000*	**700*	*197,727*	**17,000*	*470*	*479*	**6,800,000*	**870,000*	*145*	**38,000*	*88,878*	*14,803*	**680,000*	**23,000*	**20,000*	*658*	**1,800*	*54,132*
NR 720 Non-industrial DC RCL			*3,440,000*	*487,000*	*17,200,000*	*148*	*15*	*148*	**1,800*	*1,480*	*14,800*	*15*	*2,290,000*	*2,290,000*	*148*	*15,600*	*229,000*	*5,150*	*115,000*	*1,720,000*
NR 720 Industrial DC RCL			*33,000,000*	*487,000*	*100,000,000*	*2,110*	*211*	*2,110*	**39,000*	*21,100*	*211,000*	*211*	*22,000,000*	*22,000,000*	*2,110*	*53,100*	*368,000*	*26,000*	*115,000*	*16,500,000*

* indicates a suggested value.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].
Note "J" indicates slight detection above the level of detection but less than the level of quantification.

A.2. Soil Analytical Results Table (PAGE 2 OF 2)
Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
S-6: 0-1 FT	US	12/2/2004	405	<342	<171	111	122	106	232	<171	*289*	27.6	247	<171	<85.5	<171	692	<171	<171	<171
S-7: 0-1 FT	US	12/2/2004	<131	<261	<131	79.4	71.8	98.1	159	<131	<131	15.7	137	<131	88.1	<131	<131	<131	<131	<131
S-8: 0-1 FT	US	12/2/2004	<136	<272	<136	141	103	114	157	<136	*145*	15.3	240	<136	91.2	<136	<136	<136	<136	<136
S-9: 0-1 FT	US	12/2/2004	<124	<247	<124	105	80.2	87.6	127	<124	127	18.4	195	<124	68.9	<124	<124	<124	<124	<124
S-10: 0-1 FT	US	12/2/2004	346	249	956	2,030	*[1,210]*	*1,440*	925	737	*1,550*	[238]	4,000	458	800	228	151	<105	*3,490*	1,580
S-11: 0-1 FT	US	12/2/2004	<121	<242	<121	125	81.0	105	124	<121	143	27.2	232	<121	87.7	<121	<121	<121	<121	<121
S-12: 0-1 FT	US	12/2/2004	<132	<264	<132	<66.1	36.3	<66.1	<132	<132	<132	9.53	<132	<132	<66.1	<132	<132	<132	<132	<132
S-13: 0-1 FT	US	12/2/2004	<122	<244	<122	<60.9	41.8	63.4	<122	<122	<122	10.2	<122	<122	<60.9	<122	<122	<122	<122	<122
S-14: 0-1 FT	US	12/2/2004	<114	<228	<114	255	141	238	264	115	*382*	42.9	539	<114	152	<114	<114	<144	368	150
S-15: 0-1 FT	US	5/18/2005	<62.0	<140	<8.20	49.0	53.0	36.0	58.0	28.0	45.0	<12.0	120	<16.0	34.0	<49.0	<41.0	<49.0	49.0	120
S-16: 0-1 FT	US	5/18/2005	<72.0	<120	68.0	380	*[610]*	340	690	290	*310*	140	680	34.0	540	<43.0	320	51.0	330	540
S-17: 0-1 FT	US	5/18/2005	<86.0	<150	8.70	110	110	79.0	110	58.0	74.0	<13.0	220	<17.0	87.0	<52.0	95.0	<52.0	80.0	190
S-18: 0-1 FT	US	5/18/2005	110	<110	96.0	580	*[550]*	470	570	300	*540*	82.0	1,200	31.0	480	<39.0	440	97.0	550	1,100
S-19: 0-1 FT	US	5/18/2005	<110	<180	18.0	130	120	94.0	120	71.0	130	<16.0	290	<22.0	110	<65.0	<54.0	<65.0	140	290
S-20: 0-1 FT	US	5/18/2005	<69.0	<120	55.0	220	[220]	180	190	120	*210*	32.0	600	<14.0	160	<42.0	210	<42.0	280	550
S-21: 0-1 FT	US	5/18/2005	240	<120	340	1,000	*[720]*	470	540	370	*800*	100	2,100	200	510	120	1,100	210	1,700	1,900
NR 720 Groundwater RCL			**38,000*	**700*	*197,727*	**17,000*	*470*	*479*	**6,800,000*	**870,000*	*145*	**38,000*	*88,878*	*14,803*	**680,000*	**23,000*	**20,000*	*658*	**1,800*	*54,132*
NR 720 Non-industrial DC RCL			*3,440,000*	*487,000*	*17,200,000*	*148*	*15*	*148*	**1,800*	*1,480*	*14,800*	*15*	*2,290,000*	*2,290,000*	*148*	*15,600*	*229,000*	*5,150*	*115,000*	*1,720,000*
NR 720 Industrial DC RCL			*33,000,000*	*487,000*	*100,000,000*	*2,110*	*211*	*2,110*	**39,000*	*21,100*	*211,000*	*211*	*22,000,000*	*22,000,000*	*2,110*	*53,100*	*368,000*	*26,000*	*115,000*	*16,500,000*

* indicates a suggested value.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].
Note "J" indicates slight detection above the level of detection but less than the level of quantification.

A.2. Soil Analytical Results Table 3 (PAGE 1 OF 2)
Metals Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Arsenic (ppm)	Baruim (ppm)	Copper (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
GP-1: 0-2 FT	US	11/21/2003	NA	NA	NA	NA	NA	NA
GP-2: 0-2 FT	US	11/21/2003	NA	NA	NA	NA	NA	NA
GP-3: 0-2 FT	US	11/21/2003	*[3.74]*	ND	ND	*73.0*	ND	ND
GP-4: 0-2 FT	US	11/21/2003	*[3.10]*	74.5	ND	*151*	ND	ND
GP-5: 0-2 FT	US	11/21/2003	ND	ND	ND	ND	ND	ND
GP-6: 0-2 FT	US	11/21/2003	*[24.4]*	*1,590*	NA	*[11,300]*	NA	NA
GP-7: 0-2 FT	US	11/21/2003	*[17.4]*	*190*	NA	*564*	NA	NA
HA-1: 0-2 FT	US	11/21/2003	*[2.94]*	43.8	ND	13.1	ND	ND
HA-2: 0-2 FT	US	11/21/2003	ND	ND	ND	ND	ND	ND
STS-1: 2-4 FT	US	1/16/2004	NA	NA	NA	*294*	NA	NA
STS-1: 4-6 FT	S	1/16/2004	NA	NA	NA	23.2	NA	NA
STS-2: 0-2 FT	US	1/16/2004	NA	NA	NA	0.14	NA	NA
STS-2: 4-6 FT	S	1/16/2004	NA	NA	NA	6.89	NA	NA
STS-3: 0-2 FT	US	1/16/2004	NA	NA	NA	*160*	NA	NA
STS-3: 4-6 FT	S	1/16/2004	NA	NA	NA	17.0	NA	NA
STS-4 0-2 FT	US	1/16/2004	NA	NA	NA	*75.7*	NA	NA
STS-4: 4-6 FT	S	1/16/2004	NA	NA	NA	10.9	NA	NA
STS-5: 0-2 FT	US	1/16/2004	NA	NA	NA	2.97	NA	NA
STS-5: 4-6 FT	S	1/16/2004	NA	NA	NA	7.78	NA	NA
STS-6: 0-2 FT	US	1/16/2004	NA	NA	NA	*267*	NA	NA
STS-6: 4-6 FT	S	1/16/2004	NA	NA	NA	11.2	NA	NA
STS-6: 8-10 FT	S	1/16/2004	NA	NA	NA	8.99	NA	NA
STS-A1: 3 FT	US	6/4/2004	*[10.4]*	NA	NA	18.7	NA	NA
STS-7: 0-2 FT	US	1/16/2004	NA	NA	NA	*76.7*	NA	NA
STS-7: 4-6 FT	S	1/16/2004	NA	NA	NA	14.5	NA	NA
STS-A2: 3 FT	US	6/4/2004	*[9.31]*	NA	NA	*29.7*	NA	NA
STS-8: 0-2 FT	US	1/16/2004	NA	NA	NA	11.0	NA	NA
STS-8: 4-6 FT	S	1/16/2004	NA	NA	NA	17.5	NA	NA
STS-9 0-2 FT	US	1/16/2004	NA	NA	NA	*36.4*	NA	NA
STS-9: 4-6 FT	S	1/16/2004	NA	NA	NA	*93.3*	NA	NA
NR 720 Groundwater RCL			*0.58*	*165*	*91.6*	*27*	*13.1*	*NS*
NR 720 Non-industrial DC RCL			*0.39*	*15,300*	*3,130*	*400*	*1,550*	*23,500*
NR 720 Industrial DC RCL			*1.6*	*100,000*	*40,900*	*800*	*19,800*	*100,000*

Note: Only the detected compounds are presented.
Note: NR 720 values are calculated utilizing the U.S. EPA's Web-Calculator per DNR draft document RR-890.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

A.2. Soil Analytical Results Table 3 (PAGE 2 OF 2)
Metals Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Arsenic (ppm)	Baruim (ppm)	Copper (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
STS-10: 0-2 FT	US	1/16/2004	NA	NA	NA	9.45	NA	NA
STS-10: 4-6 FT	S	1/16/2004	NA	NA	NA	6.69	NA	NA
S-1: 0-1 FT	US	12/2/2004	*[7.52]*	NA	NA	*130*	NA	NA
S-2: 0-1 FT	US	12/2/2004	<3.11	NA	NA	*93.4*	NA	NA
S-3: 0-1 FT	US	12/2/2004	<3.25	NA	NA	*95.0*	NA	NA
S-4: 0-1 FT	US	12/2/2004	*[3.17]*	NA	NA	*133*	NA	NA
S-5: 0-1 FT	US	12/2/2004	*[3.95]*	NA	NA	*191*	NA	NA
S-6: 0-1 FT	US	12/2/2004	<4.27	NA	NA	*750*	NA	NA
S-7: 0-1 FT	US	12/2/2004	<3.26	NA	NA	*113*	NA	NA
S-8: 0-1 FT	US	12/2/2004	*[6.95]*	NA	NA	*143*	NA	NA
S-9: 0-1 FT	US	12/2/2004	<3.09	NA	NA	*671*	NA	NA
S-10: 0-1 FT	US	12/2/2004	<2.64	NA	NA	*[879]*	NA	NA
S-11: 0-1 FT	US	12/2/2004	*[4.30]*	NA	NA	*712*	NA	NA
S-12: 0-1 FT	US	12/2/2004	*[5.94]*	NA	NA	*135*	NA	NA
S-13: 0-1 FT	US	12/2/2004	*[4.50]*	NA	NA	*551*	NA	NA
S-14: 0-1 FT	US	12/2/2004	<2.85	NA	NA	*80.0*	NA	NA
S-15: 0-1 FT	US	5/18/2005	*[2.20]*	NA	NA	*97.0*	NA	NA
S-16: 0-1 FT	US	5/18/2005	*[9.60]*	NA	NA	*140*	NA	NA
S-17: 0-1 FT	US	5/18/2005	*[4.40]*	NA	NA	*150*	NA	NA
S-18: 0-1 FT	US	5/18/2005	*[3.60]*	NA	NA	*[1,000]*	NA	NA
S-19: 0-1 FT	US	5/18/2005	*[4.20]*	NA	NA	*[930]*	NA	NA
S-20: 0-1 FT	US	5/18/2005	*[2.10]*	NA	NA	*170*	NA	NA
S-21: 0-1 FT	US	5/18/2005	*[6.40]*	NA	NA	*47.0*	NA	NA
NR 720 Groundwater RCL			*0.58*	*165*	*91.6*	*27*	*13.1*	*NS*
NR 720 Non-industrial DC RCL			*0.39*	*15,300*	*3,130*	*400*	*1,550*	*23,500*
NR 720 Industrial DC RCL			*1.6*	*100,000*	*40,900*	*800*	*19,800*	*100,000*

Note: Only the detected compounds are presented.
Note: NR 720 values are calculated utilizing the U.S. EPA's Web-Calculator per DNR draft document RR-890.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

Friess Environmental Consulting, Inc.
Guide to Abbreviations
in Laboratory Data Tables

< = Less than the specified detection limit.
DO = Dissolved Oxygen
ES = Enforcement Standard
DRO = Diesel range organics
GRO = Gasoline range organics
iu = instrument units
MTBE = Methyl-tert butyl ether
mV = Millivolts
NA = Not analyzed for indicated parameter
NM = Not measured for indicated parameter
NR = No recovery at this interval.
NR 140 ES = Wisconsin Administrative Code NR 140 Groundwater Quality Enforcement Standard
NR 140 PAL = Wisconsin Administrative Code NR 140 Groundwater Quality Preventive Action Limit
NR 720 Groundwater RCL = Wisconsin Administrative Code NR 720 Residual Contaminant Level for the protection of groundwater via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
NR 720 Non-Industrial DC RCL = Wisconsin Administrative Code NR 720 Non-Industrial Residual Contaminant Level for direct contact via the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890
Note: NR 720 values are calculated utilizing the U.S. EPA's Regional Screening Level Web-Calculator per DNR draft document RR-890.
NS = No NR 140 ES/PAL or NR 720 RCL standard has been established.
ORP = Oxidation-reduction potential
PAL = Preventive Action Limit
PID = Photoionization detector
ppb = parts per billion
ppm = parts per million
RCL = Residual contaminant level as established in WAC Chapter NR 720
S = Saturated - Sample collected below the observed low water table
TMBs = Trimethylbenzenes (combined 1,2,4- and 1,3,5-trimethylbenzene)
umhos = Micromhos
US = Unsaturated - Sample collected above the observed low water table

A.3. Residual Soil Contamination Table (PAGE 1 OF 2)
PAH Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
GP-1: 0-2 FT	US	11/21/2003	<135	<269	<135	<67.3	30.8	<67.3	<135	<135	<135	31.0	<135	<135	<67.3	<135	<135	<121	<135	<135
GP-2: 0-2 FT	US	11/21/2003	<130	<261	<130	114	91.5	124	<130	<130	143	40.6	410	<130	76.3	164	<130	<126	174	173
GP-3: 0-2 FT	US	11/21/2003	<125	<249	<125	71.4	83.0	111	<125	<125	<125	<6.23	227	<125	106	134	<125	NR	<125	<125
GP-4: 0-2 FT	US	11/21/2003	<122	<244	<122	382	[431]	*517*	324	226	*423*	<6.09	868	<122	324	292	<122	NR	233	429
GP-5: 0-2 FT	US	11/21/2003	<116	<232	<116	400	[424]	*479*	326	226	*487*	64.1	1,170	<116	343	475	<116	NR	390	518
GP-6: 0-2 FT	US	11/21/2003	<131	<261	226	856	*[667]*	*1,130*	961	459	*1,140*	[928]	2,120	<131	872	964	<131	NR	1,120	1,080
GP-7: 0-2 FT	US	11/21/2003	1,470	<225	350	1,050	*[965]*	*1,230*	743	529	*1,130*	<5.62	2,310	118	776	<112	<112	NR	1,080	1,170
HA-1: 0-2 FT	US	11/21/2003	<118	<236	<118	<59.0	15.5	<59.0	<118	<118	<118	<5.90	<118	<118	<59.0	<118	<118	NR	<118	<118
HA-2: 0-2 FT	US	11/21/2003	<135	<269	<135	112	153	198	160	<135	*161*	31.8	322	<135	<67.3	<135	<135	NR	<135	148
STS-A2: 3 FT	US	6/4/2004	<126	<251	<126	<62.8	16.0	<62.8	<126	<126	<126	6.57	<126	<126	<62.8	<126	<126	NR	<126	<126
S-1: 0-1 FT	US	12/2/2004	<214	*1,150*	<214	149	204	159	224	<214	*231*	36.6	<214	<214	139	<214	<214	<214	<214	<214
S-2: 0-1 FT	US	12/2/2004	<125	<249	<125	113	70.8	90.4	<125	<125	140	16.4	202	<125	<62.3	<125	<125	<125	<125	<125
S-3: 0-1 FT	US	12/2/2004	<130	<260	<130	161	175	179	326	<130	*175*	39.7	283	<130	193	<130	<130	<130	<130	<130
S-4: 0-1 FT	US	12/2/2004	<103	<205	<103	93.0	101	121	216	<103	122	17.5	175	<103	127	<103	<103	<103	<103	<103
S-5: 0-1 FT	US	12/2/2004	<129	<258	<129	76.8	79.8	101	159	<129	<129	20.5	141	<129	84.8	<129	<129	<22.1	<129	<129
NR 720 Groundwater RCL			**38,000*	**700*	*197,727*	**17,000*	*470*	*479*	**6,800,000*	**870,000*	*145*	**38,000*	*88,878*	*14,803*	**680,000*	**23,000*	**20,000*	*658*	**1,800*	*54,132*
NR 720 Non-industrial DC RCL			*3,440,000*	*487,000*	*17,200,000*	*148*	*15*	*148*	**1,800*	*1,480*	*14,800*	*15*	*2,290,000*	*2,290,000*	*148*	*15,600*	*229,000*	*5,150*	*115,000*	*1,720,000*
NR 720 Industrial DC RCL			*33,000,000*	*487,000*	*100,000,000*	*2,110*	*211*	*2,110*	**39,000*	*21,100*	*211,000*	*211*	*22,000,000*	*22,000,000*	*2,110*	*53,100*	*368,000*	*26,000*	*115,000*	*16,500,000*

* indicates a suggested value.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].
Note "J" indicates slight detection above the level of detection but less than the level of quantification.

A.3. Residual Soil Contamination Table (PAGE 2 OF 2)
PAH Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Acena-phthene (ppb)	Acena-phthylene (ppb)	Anthracene (ppb)	Benzo (a) anthra-cene (ppb)	Benzo (a) pyrene (ppb)	Benzo (b) fluor-anthene (ppb)	Benzo (g,h,i) perylene (ppb)	Benzo (k) fluor-anthene (ppb)	Chrysene (ppb)	Dibenzo (a,h) anthra-cene (ppb)	Fluor-anthene (ppb)	Fluorene (ppb)	Indeno (1,2,3-cd) pyrene (ppb)	1-Methyl Naph-thalene (ppb)	2-Methyl Naph-thalene (ppb)	Naph-thalene (ppb)	Phen-anthrene (ppb)	Pyrene (ppb)
S-6: 0-1 FT	US	12/2/2004	405	<342	<171	111	122	106	232	<171	*289*	27.6	247	<171	<85.5	<171	692	<171	<171	<171
S-7: 0-1 FT	US	12/2/2004	<131	<261	<131	79.4	71.8	98.1	159	<131	<131	15.7	137	<131	88.1	<131	<131	<131	<131	<131
S-8: 0-1 FT	US	12/2/2004	<136	<272	<136	141	103	114	157	<136	*145*	15.3	240	<136	91.2	<136	<136	<136	<136	<136
S-9: 0-1 FT	US	12/2/2004	<124	<247	<124	105	80.2	87.6	127	<124	127	18.4	195	<124	68.9	<124	<124	<124	<124	<124
S-10: 0-1 FT	US	12/2/2004	346	249	956	2,030	*[1,210]*	*1,440*	925	737	*1,550*	[238]	4,000	458	800	228	151	<105	*3,490*	1,580
S-11: 0-1 FT	US	12/2/2004	<121	<242	<121	125	81.0	105	124	<121	143	27.2	232	<121	87.7	<121	<121	<121	<121	<121
S-12: 0-1 FT	US	12/2/2004	<132	<264	<132	<66.1	36.3	<66.1	<132	<132	<132	9.53	<132	<132	<66.1	<132	<132	<132	<132	<132
S-13: 0-1 FT	US	12/2/2004	<122	<244	<122	<60.9	41.8	63.4	<122	<122	<122	10.2	<122	<122	<60.9	<122	<122	<122	<122	<122
S-14: 0-1 FT	US	12/2/2004	<114	<228	<114	255	141	238	264	115	*382*	42.9	539	<114	152	<114	<114	<144	368	150
S-15: 0-1 FT	US	5/18/2005	<62.0	<140	<8.20	49.0	53.0	36.0	58.0	28.0	45.0	<12.0	120	<16.0	34.0	<49.0	<41.0	<49.0	49.0	120
S-16: 0-1 FT	US	5/18/2005	<72.0	<120	68.0	380	*[610]*	340	690	290	*310*	140	680	34.0	540	<43.0	320	51.0	330	540
S-17: 0-1 FT	US	5/18/2005	<86.0	<150	8.70	110	110	79.0	110	58.0	74.0	<13.0	220	<17.0	87.0	<52.0	95.0	<52.0	80.0	190
S-18: 0-1 FT	US	5/18/2005	110	<110	96.0	580	*[550]*	470	570	300	*540*	82.0	1,200	31.0	480	<39.0	440	97.0	550	1,100
S-19: 0-1 FT	US	5/18/2005	<110	<180	18.0	130	120	94.0	120	71.0	130	<16.0	290	<22.0	110	<65.0	<54.0	<65.0	140	290
S-20: 0-1 FT	US	5/18/2005	<69.0	<120	55.0	220	[220]	180	190	120	*210*	32.0	600	<14.0	160	<42.0	210	<42.0	280	550
S-21: 0-1 FT	US	5/18/2005	240	<120	340	1,000	*[720]*	470	540	370	*800*	100	2,100	200	510	120	1,100	210	1,700	1,900
NR 720 Groundwater RCL			**38,000*	**700*	*197,727*	**17,000*	*470*	*479*	**6,800,000*	**870,000*	*145*	**38,000*	*88,878*	*14,803*	**680,000*	**23,000*	**20,000*	*658*	**1,800*	*54,132*
NR 720 Non-industrial DC RCL			*3,440,000*	*487,000*	*17,200,000*	*148*	*15*	*148*	**1,800*	*1,480*	*14,800*	*15*	*2,290,000*	*2,290,000*	*148*	*15,600*	*229,000*	*5,150*	*115,000*	*1,720,000*
NR 720 Industrial DC RCL			*33,000,000*	*487,000*	*100,000,000*	*2,110*	*211*	*2,110*	**39,000*	*21,100*	*211,000*	*211*	*22,000,000*	*22,000,000*	*2,110*	*53,100*	*368,000*	*26,000*	*115,000*	*16,500,000*

* indicates a suggested value.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].
Note "J" indicates slight detection above the level of detection but less than the level of quantification.

A.3. Residual Soil Contamination Table 3 (PAGE 1 OF 2)
Metals Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Arsenic (ppm)	Baruim (ppm)	Copper (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
GP-1: 0-2 FT	US	11/21/2003	NA	NA	NA	NA	NA	NA
GP-2: 0-2 FT	US	11/21/2003	NA	NA	NA	NA	NA	NA
GP-3: 0-2 FT	US	11/21/2003	*[3.74]*	ND	ND	*73.0*	ND	ND
GP-4: 0-2 FT	US	11/21/2003	*[3.10]*	74.5	ND	*151*	ND	ND
GP-6: 0-2 FT	US	11/21/2003	*[24.4]*	*1,590*	NA	*[11,300]*	NA	NA
GP-7: 0-2 FT	US	11/21/2003	*[17.4]*	*190*	NA	*564*	NA	NA
HA-1: 0-2 FT	US	11/21/2003	*[2.94]*	43.8	ND	13.1	ND	ND
STS-1: 2-4 FT	US	1/16/2004	NA	NA	NA	*294*	NA	NA
STS-1: 4-6 FT	S	1/16/2004	NA	NA	NA	23.2	NA	NA
STS-3: 0-2 FT	US	1/16/2004	NA	NA	NA	*160*	NA	NA
STS-3: 4-6 FT	S	1/16/2004	NA	NA	NA	17.0	NA	NA
STS-4 0-2 FT	US	1/16/2004	NA	NA	NA	*75.7*	NA	NA
STS-4: 4-6 FT	S	1/16/2004	NA	NA	NA	10.9	NA	NA
STS-6: 0-2 FT	US	1/16/2004	NA	NA	NA	*267*	NA	NA
STS-6: 4-6 FT	S	1/16/2004	NA	NA	NA	11.2	NA	NA
STS-6: 8-10 FT	S	1/16/2004	NA	NA	NA	8.99	NA	NA
STS-A1: 3 FT	US	6/4/2004	*[10.4]*	NA	NA	18.7	NA	NA
STS-7: 0-2 FT	US	1/16/2004	NA	NA	NA	*76.7*	NA	NA
STS-7: 4-6 FT	S	1/16/2004	NA	NA	NA	14.5	NA	NA
STS-A2: 3 FT	US	6/4/2004	*[9.31]*	NA	NA	*29.7*	NA	NA
STS-9 0-2 FT	US	1/16/2004	NA	NA	NA	*36.4*	NA	NA
STS-9: 4-6 FT	S	1/16/2004	NA	NA	NA	*93.3*	NA	NA
NR 720 Groundwater RCL			*0.58*	*165*	*91.6*	*27*	*13.1*	*NS*
NR 720 Non-industrial DC RCL			*0.39*	*15,300*	*3,130*	*400*	*1,550*	*23,500*
NR 720 Industrial DC RCL			*1.6*	*100,000*	*40,900*	*800*	*19,800*	*100,000*

Note: Only the detected compounds are presented.
Note: NR 720 values are calculated utilizing the U.S. EPA's Web-Calculator per DNR draft document RR-890.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics*.
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

A.3. Residual Soil Contamination Table 3 (PAGE 2 OF 2)
Metals Analytical Results - Soil Samples
Glendale Yards Property
Glendale, Wisconsin

Sample Location	S/US	Sampling Date	Arsenic (ppm)	Baruim (ppm)	Copper (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
S-1: 0-1 FT	US	12/2/2004	*[7.52]*	NA	NA	*130*	NA	NA
S-2: 0-1 FT	US	12/2/2004	<3.11	NA	NA	*93.4*	NA	NA
S-3: 0-1 FT	US	12/2/2004	<3.25	NA	NA	*95.0*	NA	NA
S-4: 0-1 FT	US	12/2/2004	*[3.17]*	NA	NA	*133*	NA	NA
S-5: 0-1 FT	US	12/2/2004	*[3.95]*	NA	NA	*191*	NA	NA
S-6: 0-1 FT	US	12/2/2004	<4.27	NA	NA	*750*	NA	NA
S-7: 0-1 FT	US	12/2/2004	<3.26	NA	NA	*113*	NA	NA
S-8: 0-1 FT	US	12/2/2004	*[6.95]*	NA	NA	*143*	NA	NA
S-9: 0-1 FT	US	12/2/2004	<3.09	NA	NA	*671*	NA	NA
S-10: 0-1 FT	US	12/2/2004	<2.64	NA	NA	*[879]*	NA	NA
S-11: 0-1 FT	US	12/2/2004	*[4.30]*	NA	NA	*712*	NA	NA
S-12: 0-1 FT	US	12/2/2004	*[5.94]*	NA	NA	*135*	NA	NA
S-13: 0-1 FT	US	12/2/2004	*[4.50]*	NA	NA	*551*	NA	NA
S-14: 0-1 FT	US	12/2/2004	<2.85	NA	NA	*80.0*	NA	NA
S-15: 0-1 FT	US	5/18/2005	*[2.20]*	NA	NA	*97.0*	NA	NA
S-16: 0-1 FT	US	5/18/2005	*[9.60]*	NA	NA	*140*	NA	NA
S-17: 0-1 FT	US	5/18/2005	*[4.40]*	NA	NA	*150*	NA	NA
S-18: 0-1 FT	US	5/18/2005	*[3.60]*	NA	NA	*[1,000]*	NA	NA
S-19: 0-1 FT	US	5/18/2005	*[4.20]*	NA	NA	*[930]*	NA	NA
S-20: 0-1 FT	US	5/18/2005	*[2.10]*	NA	NA	*170*	NA	NA
S-21: 0-1 FT	US	5/18/2005	*[6.40]*	NA	NA	*47.0*	NA	NA
NR 720 Groundwater RCL			*0.58*	*165*	*91.6*	*27*	*13.1*	*NS*
NR 720 Non-industrial DC RCL			*0.39*	*15,300*	*3,130*	*400*	*1,550*	*23,500*
NR 720 Industrial DC RCL			*1.6*	*100,000*	*40,900*	*800*	*19,800*	*100,000*

Note: Only the detected compounds are presented.
Note: NR 720 values are calculated utilizing the U.S. EPA's Web-Calculator per DNR draft document RR-890.
Note: Concentrations that exceed their respective RCLs for the protection of groundwater are in *blue italics* .
Note: Concentrations that exceed their respective non-industrial RCLs for direct contact are underlined.
Note: Concentrations that exceed their respective industrial RCLs for direct contact are in [brackets].

CAP MAINTENANCE PLAN

April 29, 2016

Property Located at:

Former CMC Glendale Yards
4400 North Green Bay Avenue in Glendale, Wisconsin

FID No. 341089760
BRRTS No. 02-41-520674

Described as follows:

As illustrated on the Plat of Survey (Figure S-01 - attached)

Parcel ID No. 243-8995-003

Introduction:

This document is the Maintenance Plan for a cap at the above referenced property (the "Property") in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing cap within specific areas of the Property.

More site-specific information about the Property may be found in:

- The case file in the Wisconsin Department of Natural Resources (DNR) southeast regional office
- BRRTS on the Web (DNR's internet based data base of contaminated sites): http://botw.dnr.state.wi.us/botw/SetUpBasicSearchForm.do
- GIS Registry PDF file for further information on the nature and extent of contamination: http://dnrmaps.wisconsin.gov/imf/imf.jsp?site=brrts2 and
- The DNR project manager (contact information found on the last page).

Description of Residual Impacts:

The Property is currently vacant and covered by soil, gravel, and grass covered areas. The Property is zoned M-1 – commercial services district and the zoning is consistent with the current and planned future use. The subject property was historically occupied by a railroad yard. Site investigation (SI) activities have been conducted at the Property and the results indicated concentrations of residual soil impacts associated with the historic use as a railroad yard and the presence of historic fill soils. Concentrations of polynuclear aromatic hydrocarbons (PAHs), including but not limited to Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, and Dibenz(a,h)anthracene, and lead above their NR 720 residual contaminant levels (RCLs) for direct contact remain within the top four feet on site. From approximately 2007 to 2015, approximately three (3) to twenty (20) feet of fill soils were imported and graded across the site. The area of shallow residual soil impacts above direct contact RCLs is currently capped with the imported fill soil. Based on the soil sampling results, the residual soil impacts will be addressed through maintaining the existing cap as a direct contact barrier.

The Property owner, in order to maintain the integrity of the Cap, will maintain a copy of this Maintenance Plan on-site and make it available to all interested parties (i.e. on-site employees, contractors, future Property owners, etc.) for viewing.

CAP MAINTENANCE PLAN

Description of the Cap to be maintained:

The soil area (the "Cap") that exists on the property over the residual soil impacts on the above-described property in the locations shown on the attached map (Figure D.2.) serves as a barrier to prevent direct human contact with residual soil impacts and limit precipitation infiltration that might otherwise pose a threat to human health. The Cap consists of at least 24 inches of clean soil over the residual soil impacts. In addition, the Cap is covered with an additional 1 to 18 feet of overburden (Figures B.3.a.). This overburden can be disturbed without prior DNR approval; however, any future disturbance (i.e. construction or development) that will extend through the overburden to the depth of the Cap and potentially disturb the Cap would require prior DNR approval. Based on the current and future use of the Property, the Cap should function as intended unless disturbed.

Cap Inspection:

The Cap overlying residual soil impacts and as depicted on the attached map (Figure D.2.) will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks and other potential problems that can cause exposure to underlying soils. The inspections will be performed by the Property owner or their designated representative. The inspections will be performed to evaluate damage due to settling, exposure to the weather, wear from traffic, and other factors. Any area where underlying soils have become or are likely to become exposed will be documented. A log of the inspections and any repairs will be maintained by the Property owner and is included (Maintenance Inspection Log). The inspection log will include recommendations for necessary repair of any areas of the Cap where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept by the property owner and available for submittal to or inspection by DNR representatives upon their request.

Cap Maintenance Activities:

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include re-seeding of grassy areas, re-grading, or construction operations. In the event that necessary maintenance activities or new plantings (i.e. trees) expose the underlying soil, the Property owner must inform maintenance and/or landscaping workers of the direct contact exposure hazard and provide them with appropriate personal protection equipment (PPE). The Property owner must also sample any soil that is excavated from the Property prior to disposal to ascertain if soil impacts remain. The soil must be treated, stored, and disposed of by the Property owner in accordance with applicable local, state, and federal law.

In the event the Cap overlying the residual soil impacts is removed or replaced, the replacement barrier must be equivalent for the purpose of minimizing direct contact with the underlying soils. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Cap Maintenance Plan unless indicated otherwise by the DNR or its successor.

Prohibition of Activities and Notification of DNR Prior to Actions Affecting the Cap:

The following activities are prohibited on any portion of the Property where the Cap is required, unless prior written approval has been obtained from the DNR: (1) removal of the existing cap; (2) replacement of the cap with another barrier; (3) excavating of the land surface; (4) filling on the capped surface; (5) plowing for agricultural cultivation; and (6) construction or placement of a building or other structure within the capped area.

Amendment or Withdrawal of Maintenance Plan:

This Maintenance Plan can be amended or withdrawn by the Property Owner and its successors with the written approval of the DNR.

Contact Information (as of April 2016):

Site Owner and Operator:

Glendale Partners, LLC
Mr. Brian Monroe
10035 North Miller Court
Mequon, WI 53092
(414) 881-6901

Signature: _____
Mr. Brian Monroe

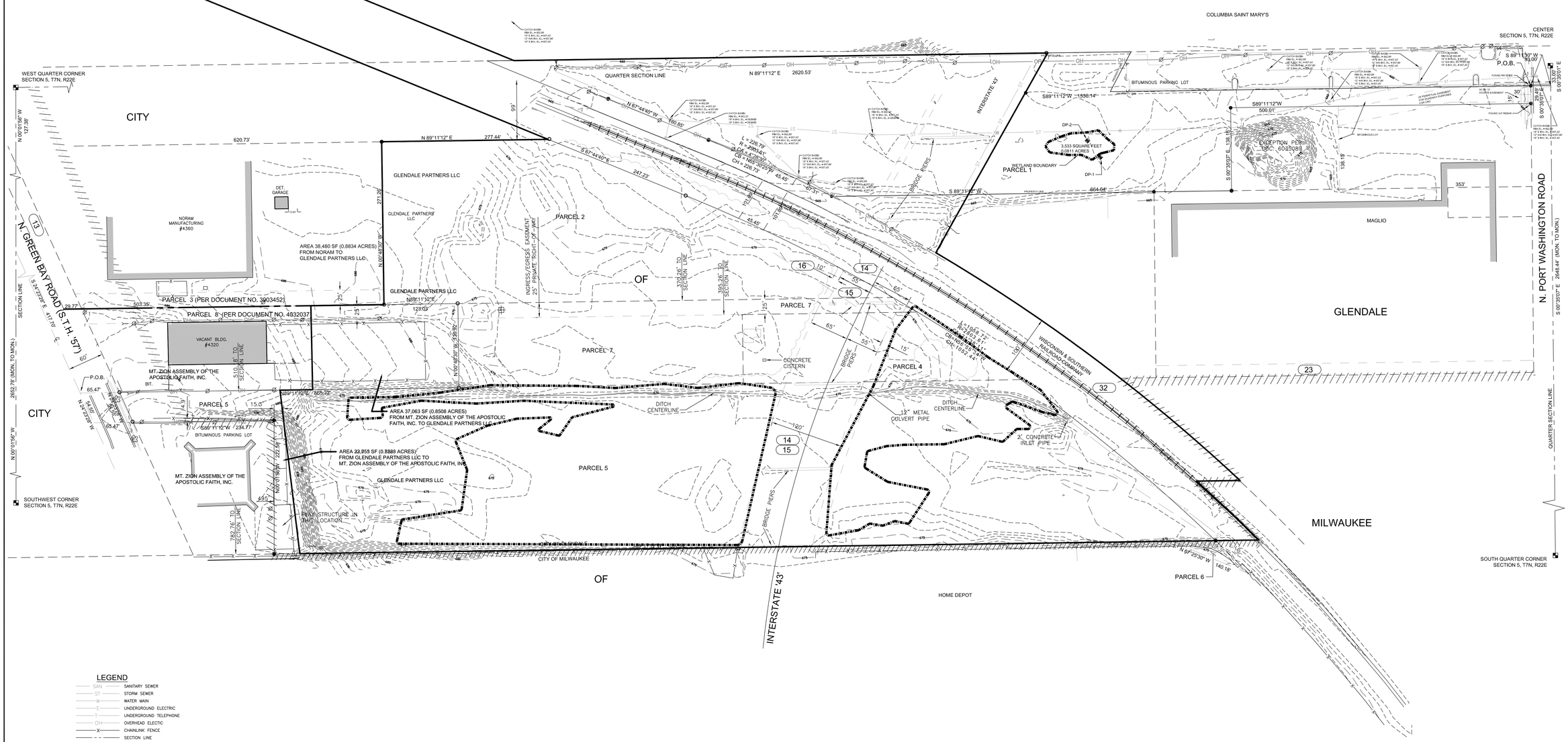
Consultant:

Friess Environmental Consulting, Inc.
Attn: Richard W. Frieseke, P.E.
6637 North Sidney Place
Milwaukee, WI 53209
(414) 228-9815

Signature: Richard W. Frieseke

DNR:

Mr. John J. Hnat
Hydrogeologist
Wisconsin Department of Natural Resources
2300 North Martin Luther King Jr. Drive
Milwaukee, WI 53212
(414) 263-8644

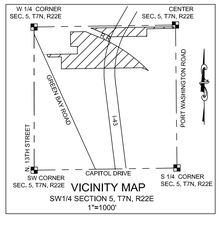


LEGEND

- SAN — SANITARY SEWER
- ST — STORM SEWER
- W — WATER MAIN
- E — UNDERGROUND ELECTRIC
- T — UNDERGROUND TELEPHONE
- OH — OVERHEAD ELECTIC
- X — CHAINLINK FENCE
- SECTION LINE
- EASEMENT BOUNDARY
- SETBACK LINE
- CORPORATE LIMITS
- 1" DIA. IRON PIPE FOUND
- 1" X 24" IRON PIPE SET
- SECTION CORNER–SEWRPC MONUMENT
- HYDRANT
- WATER VALVE
- MANHOLE
- MANHOLE SANITARY
- MANHOLE STORM
- CATCH BASIN SQUARE
- CATCH BASIN ROUND
- POWER POLE
- GAS VALVE
- SIGN
- LIGHT POLE
- TELEPHONE PEDESTAL
- MONITORING WELL

UNDERGROUND GAS LINE

INDICATES EXCEPTION PER SCHEDULE B–II OF TITLE COMMITMENT



VICINITY MAP
SW1/4 SECTION 5, T7N, R22E
1"=1000'

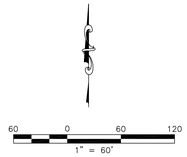
"THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDER–GROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINA–TIONS AS TO THE TYPE AND LOCATION OF UNDER–GROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO."

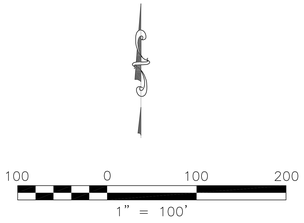
TO OBTAIN LOCATIONS OF PARTICIPATING UTILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1–800–242–8511
TOLL FREE

WIS STATUTE 182.0175(1974) REQUIRES A MINIMUM NOTICE BEFORE YOU EXCAVATE

MILW. AREA 259–1181





TOPOGRAPHIC SURVEY
GLENDALE YARDS
GLENDALE, WISCONSIN

Issued

Rev	Date	Description

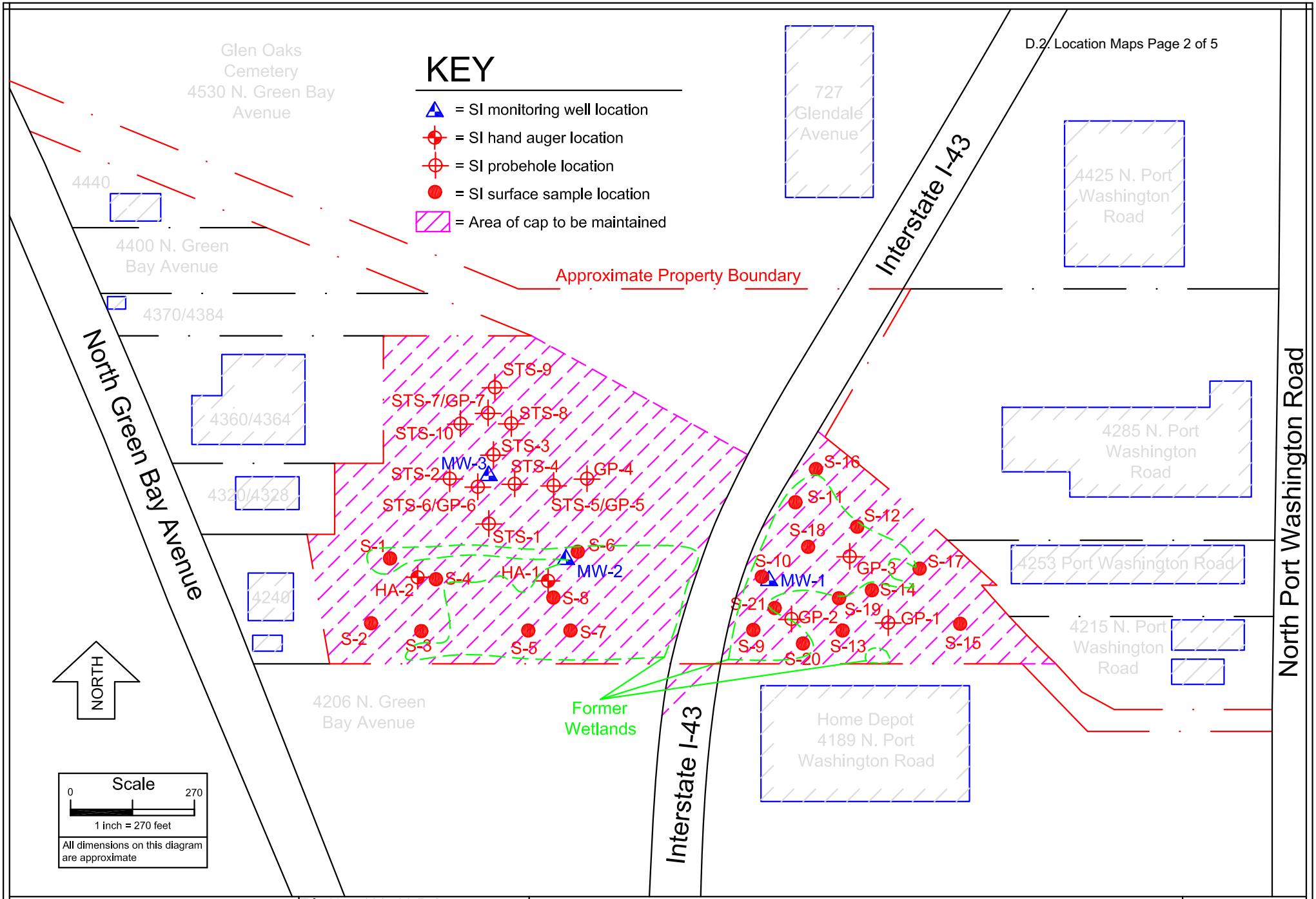
Designed:	CWR	1/30/2006
Drawn:	MJP	1/30/2006
Checked:	CWR	1/30/2006
Approved:	CWR	1/30/2006

PROJECT NUMBER
587992A

SHEET REFERENCE NUMBER
S-01

SHEET 1 OF 1

X:\Projects\587992A\Data_Outbox\2–16–09 Moved\587992A_Topo_1–13.dwg, 2/16/2009 12:36:58 PM, RILEY, CRAIG

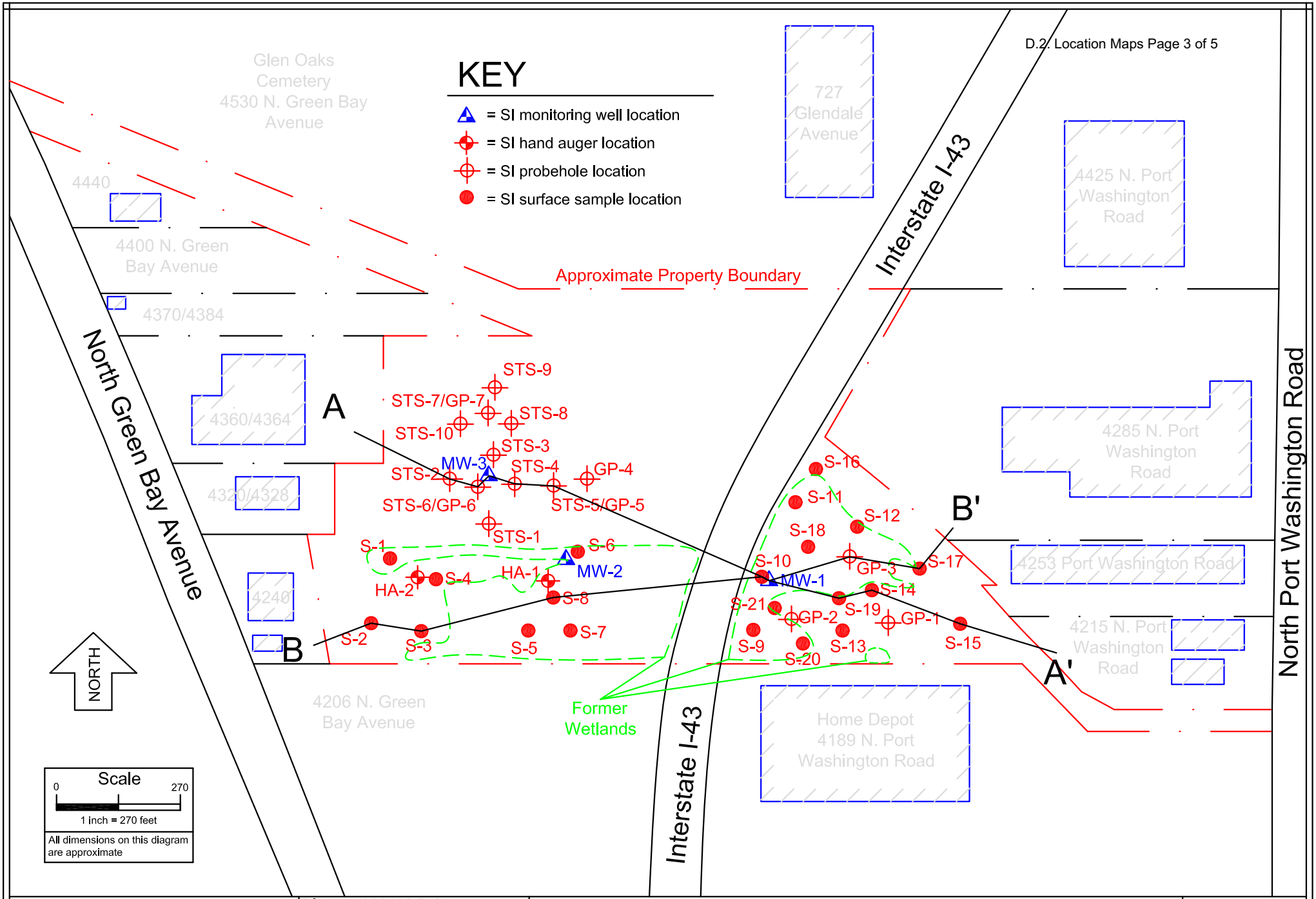


File No.:	130503 D.2.
DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

D.2. Cap Maintenance Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
D.2.

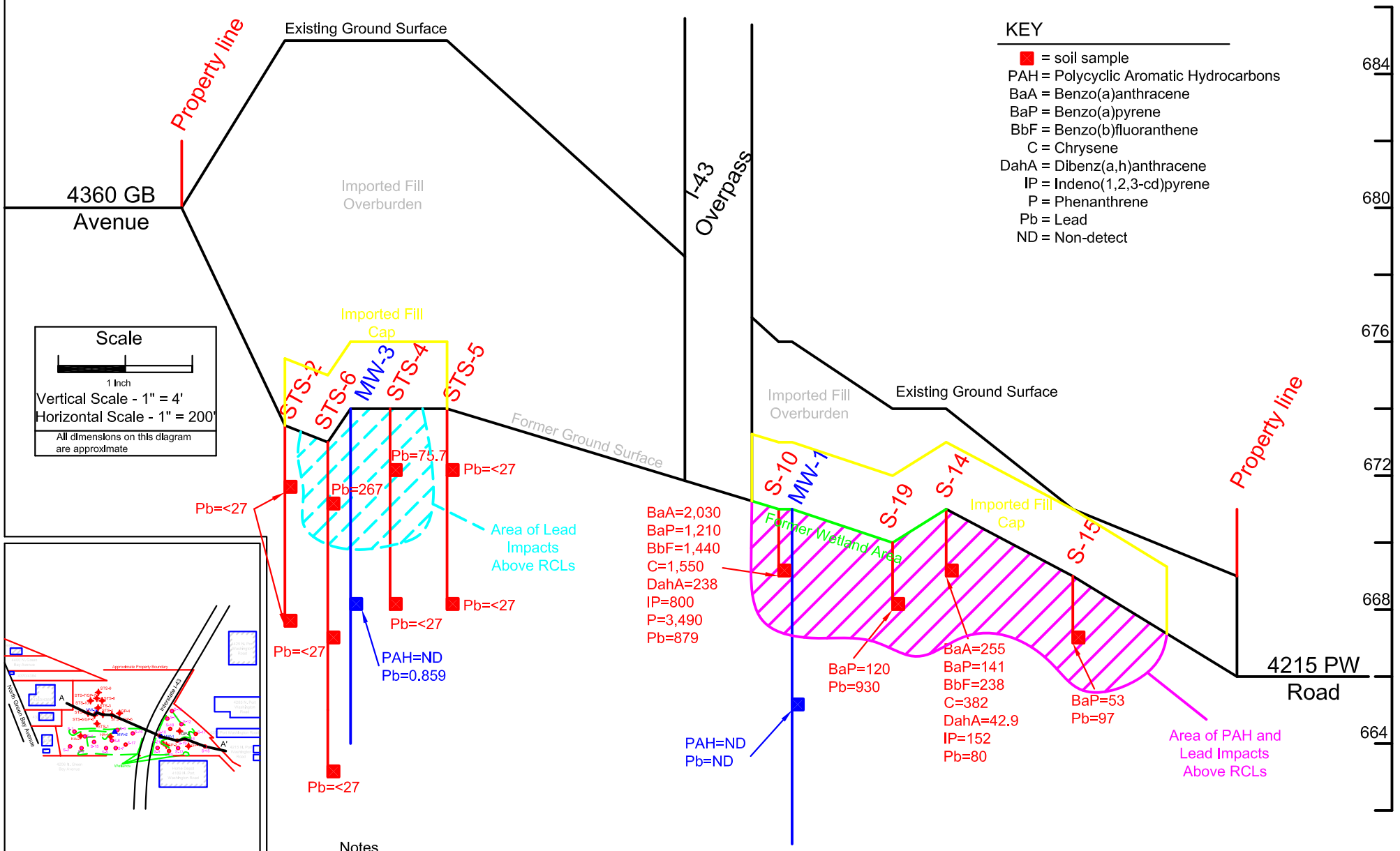


File No.:	030503 B.1.b.
DWG Date:	4-27-16
Rev Date:	
Drawn By:	TJO
Checked By (PM):	TJO

FRIESS ENVIRONMENTAL CONSULTING, INC.

B.3.a. Geologic Cross-Section Diagram
Former Glendale Yards Property
4400 N. Green Bay Avenue
Glendale, Wisconsin

Figure
B.3.a.



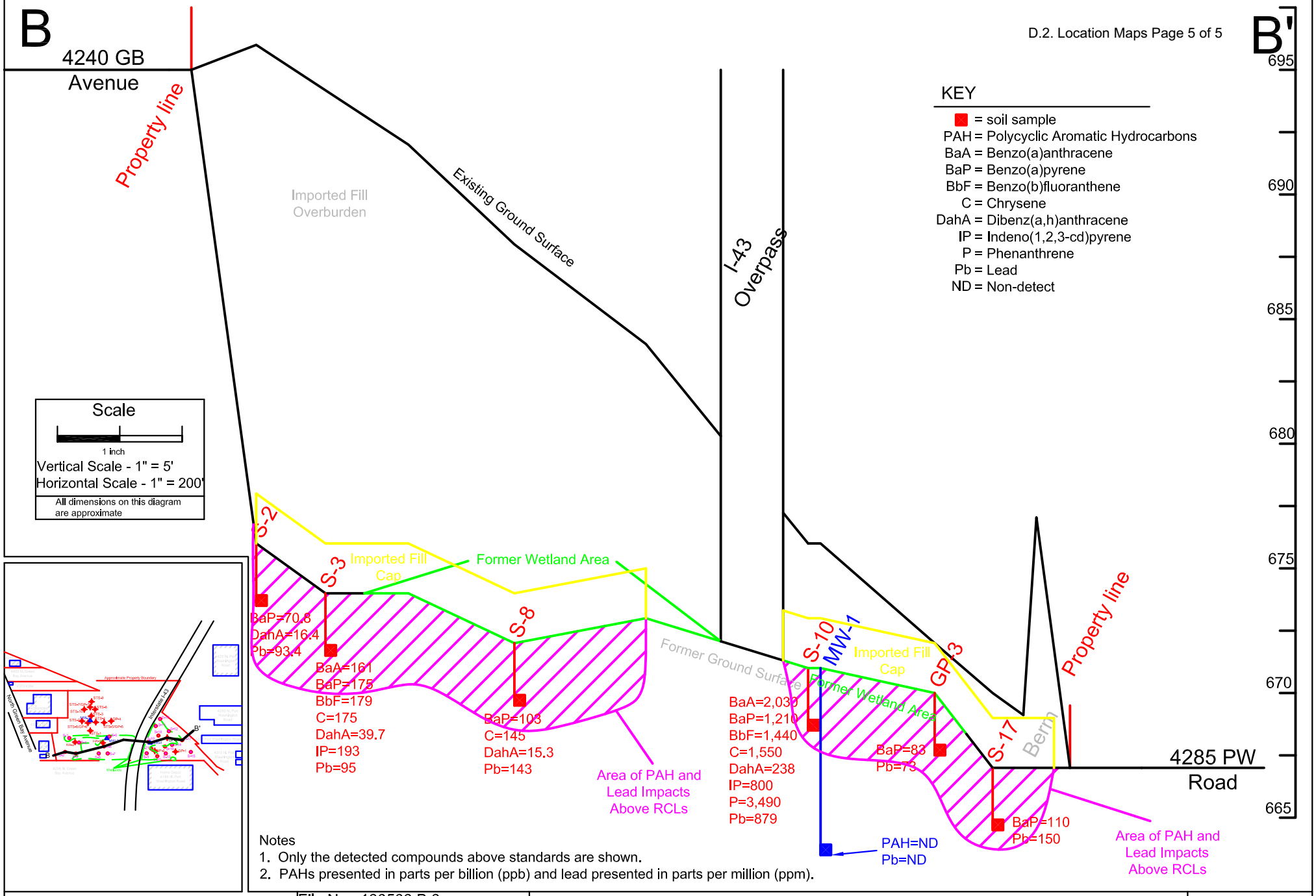
Notes
1. Only the detected compounds above standards are shown.
2. PAHs presented in parts per billion (ppb) and lead presented in parts per million (ppm).

FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.: 130503 B.3.a	
DWG Date: 4-27-16	
Rev Date: 4-27-16	
Drawn By: TJO	
Checked By (PM): TJO	

B.3.a. Geologic Cross-Section Diagram (A-A')
Glendale Yards Property
Glendale, Wisconsin

Figure
B.3.a.



Notes
1. Only the detected compounds above standards are shown.
2. PAHs presented in parts per billion (ppb) and lead presented in parts per million (ppm).

FRIESS ENVIRONMENTAL CONSULTING, INC.

File No.:	130503 B.3.a
DWG Date:	4-27-16
Rev Date:	4-27-16
Drawn By:	TJO
Checked By (PM):	TJO

B.3.a. Geologic Cross-Section Diagram (B-B')
Glendale Yards Property
Glendale, Wisconsin

Figure
B.3.a.



Photo 1 - Looking west from the southeast property boundary at the soil cap present on the southeastern portion of the property.



Photo 2 - Looking northwest from the southeastern property boundary at the soil cap present on the eastern former railroad ROW on the property.



Photo 3 - Looking east from the western portion of the property at the soil cap present on the central portion of the property.



Photo 4 - Looking southeast from the northwestern portion of the property at the soil cap present on the southeastern portion of the property.

State of Wisconsin
Department of Natural Resources
dnr.wi.gov

Continuing Obligations Inspection and Maintenance Log

Form 4400-305 (2/14)

Directions: In accordance with s. NR 727.05 (1) (b) 3., Wis. Adm. Code, use of this form for documenting the inspections and maintenance of certain continuing obligations is required. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]. When using this form, identify the condition that is being inspected. See the closure approval letter for this site for requirements regarding the submittal of this form to the Department of Natural Resources. A copy of this inspection log is required to be maintained either on the property, or at a location specified in the closure approval letter. Do NOT delete previous inspection results. This form was developed to provide a continuous history of site inspection results. The Department of Natural Resources project manager is identified in the closure letter. The project manager may also be identified from the database, BRRTS on the Web, at http://dnr.wi.gov/botw/SetUpBasicSearchForm.do, by searching for the site using the BRRTS ID number, and then looking in the "Who" section.

Activity (Site) Name	BRRTS No.
Former CMC Glendale Yards	02-41-520674

Inspections are required to be conducted (see closure approval letter):

- (•) annually
- ( ) semi-annually
- ( ) other – specify _____

When submittal of this form is required, submit the form electronically to the DNR project manager. An electronic version of this filled out form, or a scanned version may be sent to the following email address (see closure approval letter):

John.Hnat@Wisconsin.gov

Inspection Date	Inspector Name	Item	Describe the condition of the item that is being inspected	Recommendations for repair or maintenance	Previous recommendations implemented?	Photographs taken and attached?
04/27/2016	Trenton Ott	[ ] monitoring well [x] cover/barrier [ ] vapor mitigation system [ ] other:	Soil cap in good condition.	None at this time	( ) Y (•) N	(•) Y ( ) N
		[ ] monitoring well [ ] cover/barrier [ ] vapor mitigation system [ ] other:			( ) Y ( ) N	( ) Y ( ) N
		[ ] monitoring well [ ] cover/barrier [ ] vapor mitigation system [ ] other:			( ) Y ( ) N	( ) Y ( ) N
		[ ] monitoring well [ ] cover/barrier [ ] vapor mitigation system [ ] other:			( ) Y ( ) N	( ) Y ( ) N
		[ ] monitoring well [ ] cover/barrier [ ] vapor mitigation system [ ] other:			( ) Y ( ) N	( ) Y ( ) N
		[ ] monitoring well [ ] cover/barrier [ ] vapor mitigation system [ ] other:			( ) Y ( ) N	( ) Y ( ) N

Continuing Obligations Inspection and Maintenance Log

{Click to Add/Edit Image} Date added: 04/27/2016



Title: Looking west at the southeasternern portion of the subject property.

{Click to Add/Edit Image} Date added: 04/27/2016



Title: Looking northwest at the eastern portion of the subject property.

{Click to Add/Edit Image} Date added: 04/27/2016



Title: Looking east at the southeastern portion of the subject property.

{Click to Add/Edit Image} Date added: 04/27/2016



Title: Looking southeast at the eastern portion of the subject property.

Appendix C: Photographic Log

Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
1	8/7/2019

Description
Access gate at Hope Avenue, southwest of sampling area. Obtained gate lock key from WisDOT. Cut overgrowth vegetation in order to fully open gate.

Photo looking northeast.



Photo No.	Date
2	8/7/2019

Description
Location of GP-01 in foreground of photo, prior to dense grass vegetation.

Photo looking south.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
3	8/7/2019

Description
Location of GP-02 in foreground of photo, prior to dense grass vegetation.

Photo looking south.



Photo No.	Date
4	8/7/2019

Description
Location of GP-03.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
5	8/7/2019

Description
Location of GP-04.

Photo looking south.



Photo No.	Date
6	8/7/2019

Description
Location of GP-05.

Photo looking southeast.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
7	8/7/2019

Description
Location of GP-06.

Photo looking southeast.



Photo No.	Date
8	8/7/2019

Description
Location of GP-07.

Photo looking southeast.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
9	8/7/2019

Description
Location of GP-08.

Photo looking southeast.



Photo No.	Date
10	8/7/2019

Description
Location of GP-09.

Photo looking south.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
11	8/7/2019

Description
Location of GP-10. Sample location surrounded by very dense vegetation.

Photo looking northeast.



Photo No.	Date
12	8/7/2019

Description
Two 15-foot geoprobe borings were originally planned for this area on the northwest end of the bridge. However, the northern boring could not be conducted in the area due to overhead power lines, power lines that angled downward toward the ground, and the dense tree vegetation shown. The geoprobe rig is shown in front of the tree line near the GP-11 location.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
13	8/7/2019

Description
Location of GP-11. Bentonite-filled borehole shown within the exposed soil shown in the foreground.

Photo looking northwest.



Photo No.	Date
14	8/7/2019

Description
Location of GP-12. Bentonite-filled borehole shown within the exposed soil shown in the foreground.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
15	8/7/2019

Description
Location of GP-13.

Photo looking east.



Photo No.	Date
16	8/7/2019

Description
General site photo from north end of sampling extents.

Photo looking south.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
17	8/7/2019

Description
Two buckets of soil cuttings were generated during the investigation. Buckets were brought back to the TRC Brookfield office pending sample results.



Photo No.	Date
18	8/28/2019

Description
Location of P-1.

Photo looking south.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
19	8/28/2019

Description
Sample P-1.



Photo No.	Date
20	8/28/2019

Description
Sample P-1.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
21	8/28/2019

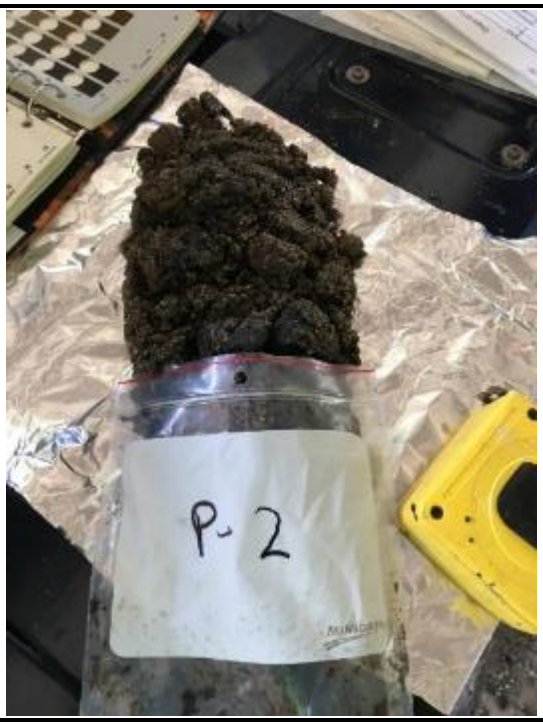
Description
Location of P-2.

Photo looking south.



Photo No.	Date
22	8/28/2019

Description
Sample P-2.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
23	8/28/2019

Description
Location of P-3.

Photo looking south.



Photo No.	Date
24	8/28/2019

Description
Location of P-3.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

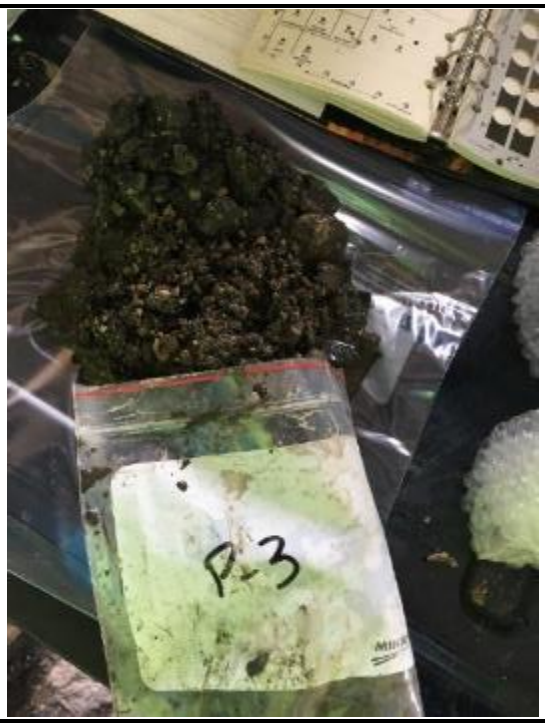
Photo No.	Date
25	8/28/2019

Description
Sample P-3.



Photo No.	Date
26	8/28/2019

Description
Sample P-3.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
27	8/28/2019

Description
Location of P-4.

Photo looking southeast.



Photo No.	Date
28	8/28/2019

Description
Sample P-4.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
29	8/28/2019

Description
Location of S-1 (by standing field personnel in tall grass).

Photo looking north.



Photo No.	Date
30	8/28/2019

Description
Location of S-2 (disturbed soil in foreground).

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
31	8/28/2019

Description
Location of S-3 (disturbed soil in foreground).

Photo looking northwest.



Photo No.	Date
32	8/28/2019

Description
Location of S-4 (by standing field personnel in tall grass in background).

Photo looking west.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
33	8/28/2019

Description
General site photo of Milwaukee River northern shoreline.

Photo looking west.



Photo No.	Date
34	8/28/2019

Description
General site photo below I-43 bridge on north side of Milwaukee River.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
35	8/28/2019

Description
General site photo below I-43 bridge on north side of Milwaukee River.

Photo looking southwest.



Photo No.	Date
36	11/27/2019

Description
Location of S-1R.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
37	11/27/2019

Description
Location of S-2R.

Photo looking east.



Photo No.	Date
38	11/27/2019

Description
Location of S-5.

Photo looking west.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
39	11/27/2019

Description
Location of S-6.

Photo looking west.



Photo No.	Date
40	11/27/2019

Description
Location of S-7.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
41	5/4/2020

Description
Location of Waypoint 2 drilled through northbound lane of I-43 bridge into Milwaukee River below.

Photo looking south.



Photo No.	Date
42	5/4/2020

Description
Waypoint 2 split spoon sampler with minimal sediment collected. Insufficient material, so no sample was collected.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
43	5/5/2020

Description
Location of Waypoint 3 drilled through northbound lane of I-43 bridge into Milwaukee River below. Located to the north of Waypoint 2.

Photo looking south.



Photo No.	Date
44	5/5/2020

Description
Waypoint 3 split spoon sampler with minimal sediment collected. Insufficient material, so no sample was collected.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
45	5/11/2020

Description
Location of Waypoint 10 drilled through southbound I-43 on-ramp bridge into Milwaukee River below. No sediment or soil material was collected in the split spoon sampler, so no sample was collected.

Photo looking south.



Photo No.	Date
46	5/21/2020

Description
Location of Waypoint 9 drilled through the southbound I-43 deck into the underlying soil.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
47	5/21/2020

Description
Waypoint 9 split spoon sampler with soil from the 2 to 4-ft interval. Collected sample Waypoint 9 (2-4').



Photo No.	Date
48	6/15/2020

Description
Plastic laid down for archeology study stockpile in left foreground of photo, soil stockpile in back right.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
49	6/15/2020

Description
Crew spreading soil stockpile across plastic.

Photo looking west.



Photo No.	Date
50	6/15/2020

Description
Archeology study soil pile excavation.

Photo looking north.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
51	6/16/2020

Description
Crew excavates slightly below grade in former pile area during archeology study.

Photo looking northeast.



Photo No.	Date
52	6/16/2020

Description
Crew excavates slightly below grade in former pile area during archeology study.

Photo looking northwest.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
53	7/17/2020

Description
Excavated area with soil replaced and final grading.

Photo looking north.



Photo No.	Date
54	7/17/2020

Description
Excavated area with soil replaced and final grading.

Photo looking northwest.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
55	7/17/2020

Description
Excavated area with soil replaced and final grading.

Photo looking east.



Photo No.	Date
56	7/17/2020

Description
Location of the former temporary stockpile.

Photo looking southwest.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
57	10/8/2020

Description
Location of boring B-17.

Photo looking east.



Photo No.	Date
58	10/8/2020

Description
Location of boring B-4A

Photo looking northeast



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
59	10/8/2020

Description
Location of boring B-18.

Photo looking northwest.



Photo No.	Date
60	10/8/2020

Description
Location of boring B-15.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
61	10/8/2020

Description
Location of boring B-9.

Photo looking northwest.



Photo No.	Date
62	10/8/2020

Description
Location of boring B-3A.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
63	10/8/2020

Description
Location of boring B-12.

Photo looking west.



Photo No.	Date
64	10/8/2020

Description
Location of boring B-12.

Photo looking south.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
65	10/8/2020

Description
Location of boring B-13.

Photo looking west.



Photo No.	Date
66	10/8/2020

Description
Location of boring B-19.

Photo looking west.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
67	10/8/2020

Description
Location of boring B-14.

Photo looking east.



Photo No.	Date
68	10/8/2020

Description
Location of boring B-11.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
69	10/8/2020

Description
Location of boring B-2A.

Photo looking east.



Photo No.	Date
70	10/8/2020

Description
Location of boring B-16.

Photo looking east.



Photographic Log

Client Name:	Site Location:	Project No.:
WisDOT	I-43, Capitol Drive to Hampton Avenue/ Milwaukee River	WisDOT#1228-22-01 TRC#341633.0000

Photo No.	Date
71	10/8/2020

Description
Location of boring B-1A.

Photo looking east.



Photo No.	Date
72	10/8/2020

Description
Location of boring B-20.

Photo looking west.



Appendix D: Soil Boring and Sediment Logs

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-01

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,714 N, 769,187 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 40.752" Long 87° 55' 17.804"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 24		0.5	**SANDY SILT (ML)**, mostly silt, some fine-grained sand, medium plasticity, brown (7.5YR 4/3), mottled, no odor, moist, stiff.	ML			1.0	1.5					Sampled 0-2 ft bgs.
			1.0						1.75					
			1.5						1.75					
			2.0	**SAND (SP)**, mostly fine-grained sand, light brown (7.5YR 6/4), no odor, moist, dense.	SP									
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,748 N, 769,196 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 41.836" Long 87° 55' 17.356"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 24		0.5	**SANDY SILT (ML)**, mostly silt, some fine-grained sand, trace coarse gravel, medium plasticity, brown (7.5YR 5/3) mottled with reddish yellow (7.5YR 7/8), no odor, moist, very stiff.	ML			1.7	3.0					Sampled 0-2 ft bgs.
			1.0											
			1.5						4.0					
			2.0	End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,790 N, 769,208 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 43.204" Long 87° 55' 16.778"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 24		0.5	**TOPSOIL**, mostly organic silt, nonplastic, dark brown (7.5YR 3/2), no odor, dry, stiff.										Sampled 0-2 ft bgs.
			1.0	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, nonplastic, brown (7.5YR 5/2), no odor, dry, hard.	ML			4.6	5.0					
			1.5											
			2.0	End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-04

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,824 N, 769,227 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 44.282" Long 87° 55' 15.899"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 24		0.5 1.0 1.5 2.0	**SILTY SAND WITH GRAVEL (SM)**, mostly medium-grained sand, little silt, little gravel, brown (7.5YR 5/3), no odor, moist, loose.	SM			7.1						Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amos Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-05

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,717 N, 769,126 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 40.907" Long 87° 55' 20.478"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 18		0.5 1.0 1.5 2.0	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, low plasticity, brown (7.5YR 5/4), no odor, moist, very stiff.	ML			5.9	2.5 2.0					Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,754 N, 769,130 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 42.108" Long 87° 55' 20.252"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 24		0.5	**SANDY SILT (ML)**, mostly silt, little fine-grained sand, medium plasticity, pinkish gray (7.5YR 6/2), no odor, moist, stiff.	ML			4.2	1.5					Sampled 0-2 ft bgs.
			1.0											
			1.5						1.5					
			2.0	End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-07

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,786 N, 769,138 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 43.11" Long 87° 55' 19.887"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 18		0.5 1.0 1.5 2.0	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, medium plasticity, reddish yellow (7.5YR 6/6), no odor, moist, very stiff.	ML			4.2	4.0 3.0					Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-08

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,810 N, 769,151 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 43.892" Long 87° 55' 19.292"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 18		0.5 1.0 1.5 2.0	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, low plasticity, yellowish brown (10YR 5/4), no odor, moist, very stiff.	ML			7.0	4.0					Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-09

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,846 N, 769,181 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 45.027" Long 87° 55' 17.93"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 18		0.5 1.0 1.5 2.0	**SILTY SAND WITH GRAVEL (SM)**, mostly fine-grained sand, some silt, little gravel, brown (7.5YR 4/2), no odor, moist, loose.	SM			7.1						Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,881 N, 769,194 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 46.163" Long 87° 55' 17.29"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	24 18		0.5 1.0 1.5 2.0	**SILTY SAND WITH GRAVEL (SM)**, mostly fine-grained sand, some silt, little gravel, brown (7.5YR 5/3), no odor, moist, loose.	SM			12.4						Sampled 0-2 ft bgs.
				End of borehole at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,937 N, 769,232 E Ⓢ/C/N
SE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 47.946" Long 87° 55' 15.559"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 48		1	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, medium plasticity, brown (7.5YR 4/2), no odor, moist, stiff.	ML			6.1	1.5					Sampled 0-2 ft bgs.
			2											
			3	**SILTY SAND WITH GRAVEL (SM)**, mostly sand, some silt, little gravel, dark gray (7.5YR 4/1), no odor, moist, loose.	SM									
			4	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, medium plasticity, brown (7.5YR 4/2), no odor, moist, stiff. Large cobble from 3.5-3.75 ft bgs.	ML			1.8						
2 GP	48 48		5	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, medium plasticity, strong brown (7.5YR 5/6), no odor, moist, very stiff.				0.8	2.75					
			6											
			7					1.8	3.0					
			8											
3 GP	48 48		9	As above, brown (7.5YR 5/3), trace gravel.				3.4						
			10		ML				3.0					
			11					2.5						
			12											
4 GP	36 36		13					2.5						
			14						2.75					
			15					2.1						
				End of borehole at 15 ft bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,937 N, 769,283 E Ⓢ/C/N
SE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 47.899" Long 87° 55' 13.317"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 48		1	**SILTY SAND WITH GRAVEL (SM)**, mostly fine-grained sand, some silt, little gravel, dark brown (7.5YR 3/2), no odor, moist, medium dense.	SM			5.1						
			2	**SILTY SAND (SM)**, mostly fine-grained sand, little silt, trace, gravel, reddish yellow (7.5YR 6/6), no odor, moist, medium dense.	SM									
			3	**SANDY SILT WITH GRAVEL (ML)**, mostly silt, some fine-grained sand, little gravel, low plasticity, brown (7.5YR 5/3), no odor, moist, very soft.				6.0						
2 GP	48 48		4	As above, red (2.5YR 5/6), very stiff to hard.										
			5					6.6	3.25					
			6											
			7					6.3	4.25					
3 GP	48 48		8	As above, trace gravel, light yellowish brown (10YR 6/4).										
			9		ML			6.7	2.75					
			10											
			11					8.6	3.25					
4 GP	36 36		12	As above, brown (10YR 5/3).										
			13					8.0	2.25					
			14					9.0	3.25					Sampled 14-15 ft bgs.
			15	End of borehole at 15 ft bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		GP-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	8/7/2019	8/7/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 123,911 N, 769,273 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 47.065" Long 87° 55' 13.797"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 42		1	**SILT (ML)**, medium plasticity, brown (10YR 5/3), no odor, moist, very stiff.	ML			7.6	3.0					
			2	**SILTY SAND WITH GRAVEL (SM)**, mostly fine- to medium-grained sand, little silt, little fine gravel, yellowish brown (10YR 5/6), no odor, moist, loose.	SM									
			3					5.4						
2 GP	48 48		4 5	**SANDY SILT (ML)**, mostly silt, little fine-grained sand, trace gravel, low plasticity, yellowish brown (10YR 5/6), no odor, moist, very stiff.				8.5	4.0					
			6 7					5.5						
3 GP	48 48		8 9	As above, gray (10YR 6/1).	ML			7.1						
			10 11					9.5						
4 GP	36 36		12 13	As above, increasing moisture.				7.5	4.25					Sampled 14-15 ft bgs.
			14					9.9	3.25					
			15	End of borehole at 15 ft bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		P-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand tube

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,708 N, 769,464 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 12.719" Long 87° 55' 4.47"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Milwaukee River										
			0.5											
			1.0											
			1.5											
			2.0											
1 CS	12 10		2.5	**SAND WITH SILT (SW)**, mostly very fine- to coarse-grained sand, some silt, trace fine to medium gravel, very dark brown (10YR 2/2), slight odor, wet, shells present.	SW									Sediment sampled from 0"-12" below sediment surface.
			3.0											
			3.5	Refusal at 12" below sediment surface. Rebar driven to refusal at approximately 18" below sediment surface.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		P-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand tube

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,684 N, 769,465 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 11.956" Long 87° 55' 4.438"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Milwaukee River										
			0.5											
			1.0											
			1.5											
			2.0											
1 CS	12 10		2.5	**SAND WITH SILT (SW)**, mostly very fine- to fine-grained sand, some silt, little fine to coarse gravel, very dark brown (10YR 2/2), slight odor, wet.	SW									Sediment sampled from 0"-12" below sediment surface.
			3.0											
			3.5	End of boring at 12" below sediment surface. Rebar driven to refusal at 18" below sediment surface.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		P-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,686 N, 769,481 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 12.005" Long 87° 55' 3.726"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Milwaukee River										
			0.5											
			1.0											
			1.5											
1 AU	13 11		2.0	**SAND WITH SILT AND GRAVEL (SW)**, mostly very fine- to coarse-grained sand, some silt, little fine to coarse gravel, trace cobbles, dark gray (10YR 4/1), organic odor, wet, shells present.	SW									Sediment sampled from 0"-13" below sediment surface.
			2.5											
			3.0	Refusal at 13" below sediment surface. Rebar driven to refusal at 16" below sediment surface.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		P-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,707 N, 769,481 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 12.69" Long 87° 55' 3.689"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			0	Milwaukee River										
			0.5											
			1.0											
			1.5											
1 AU	12 10		2.0	**SAND WITH SILT AND GRAVEL (SP)**, mostly very fine- to fine-grained sand, some silt, trace fine to medium gravel, very dark grayish brown (10YR 3/2), no odor, wet.	SP									Sediment sampled from 0"-12" below sediment surface.
			2.5											
			3.0	Refusal at 12" below sediment surface. Rebar driven to refusal at 18" below sediment surface.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,741 N, 769,466 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.796" Long 87° 55' 4.31"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	24		0.5	**SILT WITH SAND AND GRAVEL (ML)**, mostly silt, some very fine- to fine-grained sand, little fine to coarse gravel, pale brown (10YR 6/3), no odor, trace root material.										Sampled 0-1 ft bgs.
			1.0	As above, less gravel, no organics present.	ML									
			1.5											
			2.0	Boring terminated at 2 ft bgs.										

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-1R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	11/27/2019	11/27/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 409,254 N, 2,524,491 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.796" Long 87° 55' 4.31"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 46		0.5	**SILT WITH SAND (ML)**, mostly silt, some very fine- to fine-grained sand, low plasticity, black (7.5YR 2.5/1), organic odor, moist, organic material.	ML									
			1.0	**SILTY SAND (SM)**, mostly very fine- to fine-grained sand, some silt, some gravel, brown (10YR 4/3), no odor, moist, dense.				0.3						
			1.5	As above, increased gravel content.										
			2.0	As above, little gravel.										
			2.5	As above, small shells present.	SM									
			3.0					0.3						Sampled 2-4 ft bgs.
			3.5											
			4.0	Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amer	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,726 N, 769,461 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.328" Long 87° 55' 4.563"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	24		0.5	**SILT WITH SAND AND GRAVEL (ML)**, mostly silt, some very fine- to fine-grained sand, little fine to medium gravel, grayish brown (10YR 5/2), no odor, moist.										Sampled 0-1 ft bgs.
			1.0	As above, increasing sand and gravel, very moist.	ML									
			1.5											
			2.0	Boring terminated at 2 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-2R

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	11/27/2019	11/27/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 409,206 N, 2,524,462 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.33" Long 87° 55' 4.718"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 20		0.5	**SILTY SAND (SM)**, mostly very fine- to fine-grained sand, some silt, very dark grayish brown (10YR 3/2), no odor, moist, dense.	SM									
				SAND WITH GRAVEL (SW), mostly poorly sorted sand, some poorly sorted gravel, brownish yellow (10YR 6/6), no odor, moist, loose.	SW									
			1.0	**SANDY SILT (ML)**, mostly silt, some very fine- to fine-grained sand, light brownish gray (10YR 6/2), no odor, moist, dense.	ML			0.4						
			1.5	**SILTY SAND (SM)**, mostly very fine- to fine-grained sand, some silt, light gray (10YR 7/1), no odor, moist, loose.	SM			0.3						Sampled 1-1.67 ft bgs.
				Refusal at 20 inches bgs. Boring terminated at 20 inches bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,726 N, 769,449 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.332" Long 87° 55' 5.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	12		0.5	**SILTY CLAY (CL)**, mostly clay, some silt, trace fine to medium gravel, trace sand, low plasticity, very dark grayish brown (10YR 3/2), no odor, moist.	CL									Sampled 0-1 ft bgs.
			1.0	Refusal at 1 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
T. O'Connell TRC Environmental Corporation	8/28/2019	8/28/2019	hand auger

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 124,733 N, 769,430 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.568" Long 87° 55' 5.923"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 AU	12		0.5	**SILTY CLAY (CL)**, mostly clay, some silt, trace fine to medium gravel, low plasticity, very dark grayish brown (10YR 3/2), no odor, moist.	CL									Sampled 0-1 ft bgs.
			1.0	Refusal at 1 ft bgs.										

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Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	11/27/2019	11/27/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 409,252 N, 2,524,534 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.762" Long 87° 55' 3.727"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 30		0.5	**SILT WITH SAND (ML)**, mostly silt, some very fine- to fine-grained sand, black (7.5YR 2.5/1), organic odor, moist, medium dense, organic material.	ML									
			1.0	**SILTY SAND (SM)**, mostly poorly sorted sand, some silt, brown (7.5YR 4/3), no odor, moist, medium dense.				0.3						Sampled 0-1 ft bgs.
			1.5		SM									
			2.0	As above, increased sorting toward fine sand.										
			2.5											
			3.0		SM			0						Sampled 2-4 ft bgs.
			3.5	**COBBLE**, cobble/boulder, white (10YR 8/1), sandstone.										
			4.0	Boring terminated at 4 ft bgs.										

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Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-6

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	11/27/2019	11/27/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 409,234 N, 2,524,547 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.587" Long 87° 55' 3.566"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 30		0.5	**SILT WITH SAND (ML)**, mostly silt, some very fine- to fine-grained sand, black (7.5YR 2.5/1), organic odor, moist, medium dense, organic material.	ML									
			1.0	**COBBLE**, cobble/boulder, white (10YR 8/1), sandstone.				0.8						Sampled 0-1 ft bgs.
			1.5											
			2.0	**SILTY SAND WITH GRAVEL (SM)**, mostly very fine- to fine-grained sand, some silt, little gravel, brown (10YR 4/3), no odor, moist, dense. Thin (<2 inch) gravel lense.	SM									
			2.5	Thin (<2 inch) gravel lense.										
			3.0					0.3						Sampled 2-4 ft bgs.
			3.5	Thin (<2 inch) gravel lense.										
			4.0	Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		S-7

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	11/27/2019	11/27/2019	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 409,238 N, 2,524,453 E Ⓢ/C/N
NE 1/4 of NW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 6' 13.647" Long 87° 55' 4.834"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Milwaukee

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 40		0.5	**COBBLE**, cobble/boulder, white (10YR 8/1), sandstone.										
			1.0	**SAND WITH GRAVEL(SW)**, mostly poorly sorted sand, some fine gravel, yellowish brown (10YR 5/6), no odor, moist, loose.	SW									
			1.5	**COBBLE**, cobble/boulder, white (10YR 8/1), sandstone.				0.6						Sampled 0-1 ft bgs.
			2.0	**SILTY SAND (SM)**, mostly very fine- to fine-grained sand, some silt, little fine gravel, dark yellowish brown (10YR 3/4), no odor, moist, dense.	SM									
			2.5											
			3.0	**COBBLE**, cobble/boulder, light gray (10YR 7/1), fractured shale.				0.3						Sampled 2-4 ft bgs.
			3.5											
			4.0	**SILTY SAND (SM)**, mostly very fine- to fine-grained sand, some silt, little fine gravel, dark yellowish brown (10YR 3/4), no odor, moist, dense.	SM									
				Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amer	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-1a

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,805 N, 2,523,547 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 48.937" Long 87° 55' 15.131"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36		0.5	**LEAN CLAY WITH GRAVEL (CL)**, mostly clay, little fine to coarse subangular gravel, root/vegetation material present, medium plasticity clay, very dark gray (7.5 YR 3/1), no odor, moist, medium dense.					1.0					
			1.0		CL			<1						
			1.5											
			2.0	**POORLY GRADED GRAVEL (GP)**, mostly fine to coarse angular gravel/crushed rock, few fine- to coarse-grained sand, pinkish gray (7.5YR 7/2), no odor, wet, loose.										Soil sampled from 2-4 ft bgs
			2.5		GP									
			3.0	**LEAN CLAY (CL)**, mostly clay, few sand, yellowish brown (10YR 5/4), no odor, moist, very stiff.				<1						
			3.5		CL				2.5					
2 GP	24 22		4.0	**LEAN CLAY WITH SAND (CL)**, mostly clay, little fine- to medium-grained sand, yellowish brown (10YR 5/4), no odor, moist, very stiff.	CL									Soil sampled from 4-6 ft bgs
			4.5	**LEAN CLAY (CL)**, mostly clay, few sand, yellowish brown (10YR 5/4) with light brownish gray (10YR 6/2) mottling, no odor, moist, very stiff.										
			5.0		CL			<1	2.75					
			5.5											
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

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Lydia Amer	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-2a

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,716 N, 2,523,534 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 37.441" Long 87° 55' 18.437"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 40		0.5	**LEAN CLAY WITH SAND (CL)**, mostly clay, medium plasticity, little sand, few fine to coarse angular gravel, brown (7.5YR 4/2), no odor, moist, medium dense.	CL			<1	1.0					
			1.0											
			1.5											
			2.0	**LEAN CLAY WITH SAND AND GRAVEL (CL)**, mostly clay, little fine- to coarse-grained sand, little fine angular gravel, very dark grayish brown (10YR 3/2), no odor, moist, stiff.	CL			<1	2.0					Soil sampled from 2-4 ft bgs
			2.5											
			3.0											
			3.5						2.0					
2 GP	24 24		4.0	**LEAN CLAY (CL)**, medium plasticity, dark yellowish brown (10YR 4/4), no odor, moist, medium dense.	CL			<1	1.0					Soil sampled from 4-6 ft bgs
			4.5											
			5.0											
			5.5						0.5					
			6.0	**POORLY GRADED SAND (SP)**, mostly fine- to coarse-grained sand, few fine to coarse gravel, dark yellowish brown (10YR 4/4), no odor, moist, loose.	SP								
				Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Amer Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-3a

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,613 N, 2,523,525 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 38.06" Long 87° 55' 19.308"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 44		0.5	**SAND WITH GRAVEL (SP)**, mostly fine- to coarse-grained sand, some fine to coarse angular gravel, grayish brown (10YR 5/2), no odor, moist, loose. Cobble at 1.25 ft bgs.	SP			<1						Soil sampled from 0-2 ft bgs
			1.0											
			1.5	**FILL**, silty sand, cinders, brick, black (5YR 2.5/1), no odor, moist, loose.										
			2.0	**LEAN CLAY (CL)**, trace coarse gravel, medium plasticity, yellowish brown (10YR 5/4), no odor, moist, very stiff. 1" pocket of sand at 2.1 ft bgs.					3.0					
			2.5											
			3.0		CL			<1	1.5					
			3.5											
			4.0											
2 GP	24 24			Clay as above, with possible industrial coarse sand fill (dark brown/red).					0.5					Soil sampled from 4-6 ft bgs
			4.5	**POORLY GRADED SAND (SP)**, mostly fine sand, little medium- to coarse-grained sand, light brownish gray (10YR 6/2) with red plant stalks in lower inch.	SP									
			5.0	**LEAN CLAY (CL)**, few fine- to coarse-grained sand, few fine to coarse gravel, medium plasticity, yellowish brown (10YR 5/4), no odor, moist, soft.				<1	0.5					
			5.5		CL									
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-4a

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,499 N, 2,523,539 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 38.619" Long 87° 55' 19.078"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 36		0.5	**LEAN CLAY WITH SAND (CL)**, mostly clay, little fine- to coarse-grained sand, few fine to coarse angular gravel, very dark gray (10YR 3/1) in top 6", then brown (10YR 4/3) below.	CL			<1	1.0					Soil sampled from 0-2 ft bgs
			1.0											
			1.5											
			2.0	**FILL**, mostly cinders, trace glass, mostly fine- to coarse-grained sand size material, few fine to coarse gravel size.										
			2.5											
			3.0					<1						
			3.5	**LEAN CLAY (CL)**, medium plasticity, brown (10YR 4/3), no odor, moist, hard.	CL				>4.5					
2 GP	24 23		4.0	As above, with some fine- to coarse-grained sand (possible fill).					<0.2.5					Soil sampled from 4-6 ft bgs
			4.5	**FILL**, cinders.					0.5					
			5.0	**LEAN CLAY (CL)**, medium plasticity, brown (10YR 4/3), no odor, moist, hard.	CL			<1						
			5.5						>4.5					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Annes	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-5a

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,434 N, 2,523,529 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 40.01" Long 87° 55' 19.091"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 34		0.5	**SANDY LEAN CLAY (CL)**, mostly clay, some fine- to coarse-grained sand, few fine to coarse angular gravel, dark grayish brown (10YR 4/2)	CL				1.0					
			1.0					<1						
			1.5	**POORLY GRADED SAND (SP)**, mostly fine- to coarse-grained sand, few fine to coarse gravel, few industrial fill (cinders, glass), loose. Yellow paint chips/pieces around 2 ft bgs.	SP									
			2.0	**LEAN CLAY (CL)**, medium plasticity, brown (10YR 5/3), no odor, moist, stiff.										Soil sampled from 2-4 ft bgs
			2.5	As above, brown (10YR 4/3).					2.0					
			3.0					<1						
			3.5	As above, brown (10YR 5/3).					1.5					
2 GP	24 22		4.0	As above, few fine to coarse rounded gravel, mottling with light gray.	CL									Soil sampled from 4-6 ft bgs
			4.5						1.5					
			5.0					<1						
			5.5						2.5					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amos	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-9

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,614 N, 2,523,532 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T N, R 22 E
Lat 43° 5' 39.499" Long 87° 55' 19.99"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 38		0.5	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine- to coarse-grained sand, some fine to coarse angular gravel, grayish brown (10YR 5/2), no odor, moist, loose, cinder chunk at surface.	SP									Soil sampled from 0-2 ft bgs.
			1.0	**FILL**, cinders, black (5YR 2.5/1) and dark reddish brown (5YR 3/4) coloration, no odor, moist, loose.				<1						
			1.5											
			2.0	**LEAN CLAY (CL)**, mostly clay, few fine to coarse rounded gravel, low plasticity, brown (10YR 4/3) with mottling, no odor, moist, very stiff.										Soil sampled from 2-4 ft bgs
			2.5						3.5					
			3.0					<1						
			3.5						3.0					
2 GP	24 23		4.0	As above, soft.	CL									Soil sampled from 4-6 ft bgs
			4.5						0.5					
			5.0	As above, very stiff. Cobble at 5.5 ft bgs.				<1						
			5.5						2.5					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Annes	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,549 N, 2,523,535 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 39.974" Long 87° 55' 18.195"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 28		0.5	**CLAY/TOPSOIL (CL)**, medium plasticity, very dark grayish brown (10YR 3/2), no odor, moist, plant material present.	CL				<0.25					Soil sampled from 0-2 ft bgs
			1.0 1.5 2.0	**GRAVEL WITH SAND (GP)**, mostly fine to coarse angular gravel/crushed rock, little fine- to coarse-grained sand, light gray (10YR 7/2), no odor, moist, loose.	GP			<1						Soil sampled from 2-4 ft bgs
			2.5	**FILL**, cinders.										
			3.0	**LEAN CLAY (CL)**, medium plasticity, dark grayish brown (10YR 4/2), moist, no odor. Color grades to dark yellowish brown (10YR 4/4) by 4 ft bgs.				<1	2.0					
2 GP	24 24		3.5 4.0 4.5	As above, with mottling.	CL				1.0					Soil sampled from 4-6 ft bgs
			5.0					<1						
			5.5 6.0						3.0					
				Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amrien	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,664 N, 2,523,543 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 39.122" Long 87° 55' 18.47"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 42		0.5	**LEAN CLAY WITH GRAVEL (CL)**, mostly lean clay, little gravel, few sand, few/trace fill (cinders) mixed throughout, low plasticity clay, very dark grayish brown (10YR 3/2), no odor, dry, medium dense.	CL			<1	1.0					Soil sampled from 0-2 ft bgs
			1.0											
			1.5	**LEAN CLAY (CL)**, medium plasticity, yellowish brown (10YR 5/4), no odor, moist, very stiff.										
			2.0						3.5					Soil sampled from 2-4 ft bgs
			2.5											
			3.0	As above, medium dense.				<1	0.75					
			3.5		CL									
2 GP	24 22		4.0	As above, with gray (10YR 5/1) mottling.										Soil sampled from 4-6 ft bgs
			4.5											
			5.0					<1						
			5.5											
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amos	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,610 N, 2,523,469 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 39.095" Long 87° 55' 18.397"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 41		0.5	**LEAN CLAY WITH SAND AND GRAVEL (CL)**, mostly low plasticity clay, some fine- to coarse-grained sand, some fine to coarse angular gravel, brown (10YR 4/3), dry, stiff.	CL			<1	1.5					Soil sampled from 0-2 ft bgs
			1.0											
			1.5											
			2.0						1.75					Soil sampled from 2-4 ft bgs
			2.5	**CLAYEY SAND WITH GRAVEL (SP)**, mostly fine- to coarse-grained sand, little fine gravel, little clay, brown (10YR 4/3), no odor, moist, loose. Cobble at 3 ft bgs.	SP									
			3.0	**LEAN CLAY (CL)**, low plasticity, very dark grayish brown (10YR 3/2), no odor, moist, very stiff.	CL			<1						
			3.5						3.0					
2 GP	24 24		4.0	**LEAN CLAY WITH GRAVEL (CL)**, mostly low plasticity clay, little fine to coarse rounded gravel, dark yellowish brown (10YR 4/4) with mottling, no odor, moist, very stiff.	CL									Soil sampled from 4-6 ft bgs
			4.5						1.75					
			5.0					<1						
			5.5						1.75					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Ames Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,612 N, 2,523,442 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 38.053" Long 87° 55' 18.468"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 47		0.5	**LEAN CLAY WITH SAND AND GRAVEL (CL)**, mostly low plasticity clay, little fine- to coarse-grained sand, little fine to coarse angular gravel, trace to few industrial fill (cinders) throughout, dark yellowish brown (10R 4/4), no odor, dry, very stiff.					3.5					Soil sampled from 0-2 ft bgs.
			1.0	As above, stiff.				<1						
			1.5		CL				1.0					
			2.0											Soil sampled from 2-4 ft bgs
			2.5						1.25					
			3.0					<1						
			3.5	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine- to medium-grained sand, some fine to coarse subrounded gravel, yellowish brown (10R 5/4), no odor, moist, loose.										
2 GP	24 23		4.0											Soil sampled from 4-6 ft bgs
			4.5		SP									
			5.0					<1						
			5.5											
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-14

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,667 N, 2,523,485 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 38.083" Long 87° 55' 18.55"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 48		0.5	**LEAN CLAY WITH GRAVEL (CL)**, mostly low plasticity clay, little fine to coarse angular gravel, trace to few industrial fill (cinders, metal shards) throughout, very dark grayish brown (10YR 3/2), no odor, dry, very stiff.					4.0					Soil sampled from 0-2 ft bgs.
			1.0					<1						
			1.5		CL									
			2.0											Soil sampled from 2-4 ft bgs
			2.5						2.5					
			3.0					<1						
			3.5	**FILL**, mostly industrial fill, coarse sand size, dark reddish brown, no odor, loose.										
2 GP	24 24		4.0	**CRUSHED ROCK**, white (10YR 8/1), no odor, dry, loose, possibly limestone.										Soil sampled from 4-6 ft bgs
			4.5	**LEAN CLAY (CL)**, medium plasticity, yellowish brown (10YR 5/4), no odor, moist, very stiff.					3.0					
			5.0		CL			<1						
			5.5						2.0					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,564 N, 2,523,480 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 36.981" Long 87° 55' 18.486"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 44		0.5	**GRAVELLY LEAN CLAY WITH SAND (CL)**, mostly low plasticity clay, some fine to coarse angular gravel, little fine- to coarse-grained sand, dark yellowish brown (10YR 4/5), no odor, dry, medium dense.					1.0					Soil sampled from 0-2 ft bgs.
			1.0	As above, trace cinders around 1 ft bgs.				<1						
			1.5		CL									
			2.0						1.0					Soil sampled from 2-4 ft bgs
			2.5											
			3.0	**LEAN CLAY (CL)**, mostly low plasticity clay, dark yellowish brown (10YR 4/4), no odor, dry, hard.				<1						
			3.5		CL				>4.5					
2 GP	24 24		4.0	**LEAN CLAY WITH GRAVEL (CL)**, mostly clay, little fine to coarse rounded gravel, yellowish brown (10R 5/4), no odor, moist, stiff.										Soil sampled from 4-6 ft bgs
			4.5						1.75					
			5.0		CL			<1						
			5.5						2.0					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,807 N, 2,523,480 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 36.949" Long 87° 55' 18.409"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 44		0.5	**LEAN CLAY WITH SAND AND GRAVEL (CL)**, mostly low plasticity clay, little fine- to coarse-grained sand, little fine to coarse angular gravel, trace to few industrial fill (cinders) throughout, dark yellowish brown (10R 4/4), no odor, dry, hard.				<1	>4.5					Soil sampled from 0-2 ft bgs.
			1.0											
			1.5											
			2.0	As above, very stiff.	CL				3.5					Soil sampled from 2-4 ft bgs
			2.5											
			3.0	As above, stiff.				<1						
			3.5						1.25					
			4.0											
2 GP	24 24		4.5	**POORLY GRADED GRAVEL WITH SAND (GP)**, fine to coarse angular gravel, some sand, dark grayish brown (10R 4/2), no odor, wet, loose.	GP									Soil sampled from 4-6 ft bgs
			5.0	**LEAN CLAY (CL)**, mostly low plasticity clay, industrial fill present (dark brown/reddish cinders, coarse sand size), dark yellowish brown (10R 4/4), no odor, moist, soft.	CL			<1	0.5					
			5.5	**LEAN CLAY (CL)**, few fine- to coarse-grained sand, medium plasticity, yellowish brown (10R 5/4), no odor, moist.	CL				1.5					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,470 N, 2,523,487 E Ⓢ/C/N
NE 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 36.301" Long 87° 55' 18.541"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 44		0.5	**GRAVELLY SILT WITH SAND (ML)**, mostly silt, some fine to coarse angular gravel, little sand, brown (10YR 4/3), no odor, dry, medium dense.					1.0					Soil sampled from 0-2 ft bgs.
			1.0		ML			<1						
			1.5											
			2.0	**SILTY GRAVEL WITH SAND (GM)**, mostly fine to coarse gravel, some fine- to coarse-grained sand, little silt, brown (10YR 4/3), no odor, moist, loose. 1" piece of cinder/fill material at 2 ft bgs.	GM									Soil sampled from 2-4 ft bgs
			2.5	**LEAN CLAY WITH GRAVEL (CL)**, mostly low plasticity clay, little fine subrounded gravel, dark brown (10YR 3/3), no odor, moist, hard.	CL				>4.5					
			3.0					<1						
			3.5	**FILL**, cinders/industrial fill.					>4.5					
				LEAN CLAY WITH GRAVEL (CL), mostly low plasticity clay, little fine subrounded gravel, yellowish brown (10YR 5/4), no odor, moist, hard.										
2 GP	24 24		4.0											Soil sampled from 4-6 ft bgs
			4.5	Cobble at 4.5 ft bgs.	CL				3.0					
			5.0					<1						
			5.5						2.5					
			6.0	Boring terminated at 6 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm	Tel: (608) 826-3600
Lydia Amos	TRC Environmental Corporation 708 Heartland Trail Madison, WI 53717	Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-18

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,533 N, 2,523,361 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 36.309" Long 87° 55' 18.555"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 48		0.5	**POORLY GRADED GRAVEL WITH SAND (GP)**, mostly angular gravel/crushed rock, some fine- to coarse-grained sand, white (10YR 8/1), no odor, dry, loose.	GP				3.25					Soil sampled from 0-2 ft bgs.
			1.0	**LEAN CLAY (CL)**, mostly low plasticity clay, few fine to coarse rounded gravel, yellowish brown (10YR 5/8), no odor, dry, very stiff.				<1						
			1.5											
			2.0		CL				4.0					Soil sampled from 2-4 ft bgs
			2.5											
			3.0	As above, hard.				<1						
			3.5						>4.5					
			4.0	Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Ames Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-19

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,670 N, 2,523,408 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 49.279" Long 87° 55' 14.793"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 44		0.5	**SILT (ML)**, brown (10R 4/3), no odor, dry, loose.	ML									Soil sampled from 0-2 ft bgs.
			1.0	**POORLY GRADED SAND WITH GRAVEL (SP)**, mostly fine- to coarse-grained sand, some fine angular gravel, black (10R 2/1), no odor, moist, loose.	SP									
			1.5	**POORLY GRADED GRAVEL WITH SAND (GP)**, mostly angular fine to coarse gravel/crushed rock, some fine- to coarse-grained sand, white (10YR 8/1), no odor, dry, loose.	GP			<1						
			2.0	**SILTY SAND WITH GRAVEL (SM)**, mostly fine- to coarse-grained sand, little silt, little fine gravel, black (10R 2/1), no odor, moist, loose.	SM									Soil sampled from 2-4 ft bgs
			2.5											
			3.0	**LEAN CLAY (CL)**, low plasticity, light yellowish brown (10YR 6/4), no odor, moist, hard.	CL			<1						
			3.5						>4.5					
			4.0	Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation		B-20

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
D. Bendorf Probe Technologies	10/8/2020	10/8/2020	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 405,754 N, 2,523,415 E Ⓢ/C/N
NW 1/4 of SW 1/4 of Section 5, T 7 N, R 22 E
Lat 43° 5' 38.089" Long 87° 55' 18.459"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Milwaukee	41	Glendale

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1 GP	48 43		0.5	**LEAN CLAY (CL)**, low plasticity, pockets of sand/cinders at 0.5 ft bgs, little cinders distributed throughout, very dark gray (10YR 3/1), no odor, moist.	CL			<1						Soil sampled from 0-2 ft bgs.
			1.0											
			1.5											
			2.0	**LEAN CLAY (CL)**, mostly low plasticity clay, trace fine gravel, dark yellowish brown (10YR 4/4), no odor, moist, stiff.					1.25					Soil sampled from 2-4 ft bgs
			2.5		CL				2.0					
			3.0	As above, yellowish brown (10YR 5/4).				<1						
			3.5						2.0					
			4.0	Boring terminated at 4 ft bgs.										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Lydia Annes Firm TRC Environmental Corporation
708 Heartland Trail Madison, WI 53717
Tel: (608) 826-3600
Fax: (608) 826-3941

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09465 ° N, -87.92161 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-01

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09495 ° N, -87.92149 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-02

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work

Date Signed

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09533 ° N, -87.92133 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-03

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09563 ° N, -87.92108 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-04

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09470 ° N, -87.92236 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-05

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09503 ° N, -87.92229 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-06

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09531 ° N, -87.92219 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-07

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09553 ° N, -87.92203 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-08

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09584 ° N, -87.92165 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-09

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09616 ° N, -87.92147 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

GP-10

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09665 ° N, -87.92099 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15.0	0.5 sacks	

6. Comments

GP-11

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work

Date Signed

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09664 ° N, -87.92037 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15.0	0.5 sacks	

6. Comments

GP-12

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:

Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09641 ° N, -87.92050 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/07/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
15.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	15.0	0.5 sacks	

6. Comments

GP-13

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/07/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10353 ° N, -87.91791 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft) | Casing Diameter (in.)

Lower Drillhole Diameter (in.) | Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☐ N/A
Liner(s) removed?	☐ Yes	☐ No	☐ N/A
Liner(s) perforated?	☐ Yes	☐ No	☐ N/A
Screen removed?	☐ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Street or Route		Telephone Number
City	State	ZIP Code

Signature of Person Doing Work | Date Signed

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10332 ° N, -87.91790 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft) | Casing Diameter (in.)

Lower Drillhole Diameter (in.) | Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☐ N/A
Liner(s) removed?	☐ Yes	☐ No	☐ N/A
Liner(s) perforated?	☐ Yes	☐ No	☐ N/A
Screen removed?	☐ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Street or Route		Telephone Number
City	State	ZIP Code

Signature of Person Doing Work | Date Signed

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10333 ° N, -87.91770 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft) | Casing Diameter (in.)

Lower Drillhole Diameter (in.) | Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☐ N/A
Liner(s) removed?	☐ Yes	☐ No	☐ N/A
Liner(s) perforated?	☐ Yes	☐ No	☐ N/A
Screen removed?	☐ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
	Surface			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Street or Route		Telephone Number
City	State	ZIP Code

Signature of Person Doing Work | Date Signed

DNR Use Only

Date Received	Noted By
Comments	

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10352 ° N, -87.91769 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town | Well ZIP Code

Subdivision Name | Lot #

Reason For Removal From Service | WI Unique Well # of Replacement Well

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS)

License/Permit/Monitoring #

Original Well Owner

Present Well Owner

Mailing Address of Present Owner

City of Present Owner | State | ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☐ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☐ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft) | Casing Diameter (in.)

Lower Drillhole Diameter (in.) | Casing Depth (ft.)

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☐ N/A
Liner(s) removed?	☐ Yes	☐ No	☐ N/A
Liner(s) perforated?	☐ Yes	☐ No	☐ N/A
Screen removed?	☐ Yes	☐ No	☐ N/A
Casing left in place?	☐ Yes	☐ No	☐ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☐ N/A
Did sealing material rise to surface?	☐ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☐ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface			

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Street or Route		Telephone Number
City	State	ZIP Code

Signature of Person Doing Work | Date Signed

DNR Use Only

Date Received	Noted By
Comments	

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10383 ° N, -87.91786 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

S-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:

Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10383 ° N, -87.91786 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/27/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4.0	0.25 sacks	

6. Comments

S-1R

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10370 ° N, -87.91793 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
2.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	2.0	0.1 sacks	

6. Comments

S-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10370 ° N, -87.91798 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/27/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
1.5	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	1.5	0.1 sacks	

6. Comments

S-2R

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:

Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10370 ° N, -87.91808 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
1.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	1.0	0.1 sacks	

6. Comments

S-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10377 ° N, -87.91831 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/28/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
1.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	1.0	0.1 sacks	

6. Comments

S-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

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dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10382 ° N, -87.91770 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/27/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4.0	0.25 sacks	

6. Comments

S-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

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Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10377 ° N, -87.91766 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/27/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4.0	0.25 sacks	

6. Comments

S-6

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.10379 ° N, -87.91801 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☒ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	NW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 11/27/2019

If a Well Construction Report is available, please attach.

Construction Type:
☒ Drilled ☐ Driven (Sandpoint) ☐ Dug
☐ Other (Specify)

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	4.0	0.25 sacks	

6. Comments

S-7

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		11/27/2019

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09442 ° N, -87.92171 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name: Lot #:

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09373 ° N, -87.92179 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-10

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC 01/14/21
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09405 ° N, -87.92175 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-11

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09391 ° N, -87.92203 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-12

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09391 ° N, -87.92213 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-13

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09406 ° N, -87.92197 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name: Lot #:

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-14

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route: 7781 Pathfinder Lane
Telephone Number: 262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC 01/14/21
Date Signed:

DNR Use Only
Date Received:
Noted By:
Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09378 ° N, -87.92199 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-15

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09445 ° N, -87.92197 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name: Lot #:

Reason For Removal From Service: Soil Boring
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-16

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09352 ° N, -87.92198 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-17

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09370 ° N, -87.92244 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-18

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC Date Signed: 01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09408 ° N, -87.92225 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-19

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC 01/14/21
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09444 ° N, -87.92172 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.1 cubic feet	

6. Comments

B-1a

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09420 ° N, -87.92180 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09431 ° N, -87.92222 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-20

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC 01/14/21
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09419 ° N, -87.92178 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.1 cubic feet	

6. Comments

B-2a

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	DNR Use Only: Date Received	Noted By
Probe Technologies		10/08/2020		

Street or Route	Telephone Number	Comments
7781 Pathfinder Lane	262-470-4768	

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09390 ° N, -87.92180 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-3

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09391 ° N, -87.92182 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.1 cubic feet	

6. Comments

B-3a

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09361 ° N, -87.92180 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-4

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ted O'Connell - TRC Date Signed: 01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09360 ° N, -87.92178 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.1 cubic feet	

6. Comments

B-4a

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09342 ° N, -87.92182 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
4.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	4.0	0.09 cubic feet	

6. Comments

B-5

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09342 ° N, -87.92182 ° W

Format Code: ☒ DD ☐ DDM

Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation

Facility ID (FID or PWS):

License/Permit/Monitoring #:

Original Well Owner:

Present Well Owner: WisDOT

Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.1 cubic feet	

6. Comments

B-5a

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09702 ° N, -87.92078 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
12.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	12.0	0.26 cubic feet	

6. Comments

B-6

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

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☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09693 ° N, -87.92087 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address:

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
12.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	12.0	0.26 cubic feet	

6. Comments

B-7

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09681 ° N, -87.92097 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
SE	SW	5	7	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 08/20/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
12.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	12.0	0.26 cubic feet	

6. Comments

B-8

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		08/20/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return this form to the appropriate DNR office and bureau. See instructions on reverse for more information.

☐ Verification Only of Fill and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☒ Remediation/Redevelopment
☐ Waste Management ☐ Other

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Milwaukee	()	

Latitude / Longitude (see instructions): 43.09391 ° N, -87.92179 ° W
Format Code: ☒ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NE	SW	5		22 ☒ E ☐ W

or Gov't Lot #

Well Street Address

Well City, Village or Town	Well ZIP Code
Glendale	53209

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil Boring	

2. Facility / Owner Information

Facility Name: I-43 (Capitol to Hampton) Phase 2.5/Sediment Investigation
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner:
Present Well Owner: WisDOT
Mailing Address of Present Owner: 141 NW Barstow Street

City of Present Owner	State	ZIP Code
Waukesha	WI	53187

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 10/08/2020

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft)	Casing Diameter (in.)
6.0	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	

Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain)

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	6.0	0.13 cubic feet	

6. Comments

B-9

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Probe Technologies		10/08/2020

Street or Route	Telephone Number
7781 Pathfinder Lane	262-470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53590	Ted O'Connell - TRC	01/14/21

DNR Use Only

Date Received	Noted By

Comments

Appendix E: Laboratory Analytical Reports

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-168105-1
Client Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Authorized for release by:
8/23/2019 3:28:42 PM
Eric Lang, Manager of Project Management
(708)534-5200
eric.lang@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Job ID: 500-168105-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-168105-1

Comments
No additional comments.

Receipt
The samples were received on 8/9/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS Semi VOA
Method(s) 8270D: The following sample was diluted due to the nature of the sample matrix: GP-04 (0-2) (500-168105-4). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following sample required a dilution due to the nature of the sample matrix: GP-04 (0-2) (500-168105-4). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: GP-05 (0-2) (500-168105-5), GP-09 (0-2) (500-168105-9), GP-10 (0-2) (500-168105-10) and GP-11 (0-2) (500-168105-11). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) WI-GRO: This chromatogram has peaks outside the reported retention time range.

GP-04 (0-2) (500-168105-4) and GP-12 (14-15) (500-168105-12)

Method(s) WI-GRO: Most of the area reported as GRO (gasoline range organics) is from a single peak.

GP-10 (0-2) (500-168105-10)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-01 (0-2)
Lab Sample ID: 500-168105-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	17	J	37	4.9	ug/Kg	1	☼	8270D	Total/NA
Anthracene	13	J	37	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	110		37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	140		37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		37	8.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	23	J	37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	73		37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		37	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	130		37	6.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	35	J	37	9.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	26	J	37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		37	7.4	ug/Kg	1	☼	8270D	Total/NA
Lead	14		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-02 (0-2)
Lab Sample ID: 500-168105-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	16	J	72	8.7	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	13	J	72	6.6	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	36		35	6.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	9.5	J	35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	460	F2 F1	35	6.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1500	F1 F2	35	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1400	F1 F2	35	9.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2400	F1 F2	35	6.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	50		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	16	J	35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	840	F2 F1	35	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	1900	F1 F2	35	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1300	F1 F2	71	14	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1800	F1 F2	71	15	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	410	F1 F2	71	23	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	630	F2 F1	71	21	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	140	F1	71	14	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	430	F1	71	18	ug/Kg	2	☼	8270D	Total/NA
Lead	33		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-03 (0-2)
Lab Sample ID: 500-168105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	17	J	70	8.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	14	J	70	6.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	150		35	6.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	31	J	35	4.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	480		35	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1900		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2000		35	9.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	150		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	13	J	35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1900		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1700		170	34	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2100		170	38	ug/Kg	5	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample ID: GP-03 (0-2) (Continued)
Lab Sample ID: 500-168105-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[g,h,i]perylene - DL	1000		170	56	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	760		170	51	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	240		170	34	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene - DL	3700		170	32	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	920		170	45	ug/Kg	5	☼	8270D	Total/NA
Pyrene - DL	3200		170	35	ug/Kg	5	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	24		4.2	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	120		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-04 (0-2)
Lab Sample ID: 500-168105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	5200		1800	320	ug/Kg	50	☼	8270D	Total/NA
Acenaphthylene	530	J	1800	230	ug/Kg	50	☼	8270D	Total/NA
Anthracene	22000		1800	300	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene	60000		1800	240	ug/Kg	50	☼	8270D	Total/NA
Chrysene	58000		1800	480	ug/Kg	50	☼	8270D	Total/NA
Fluorene	6900		1800	250	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	80000		1800	250	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene - DL	49000		3500	680	ug/Kg	100	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	59000		3500	760	ug/Kg	100	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	27000		3500	1100	ug/Kg	100	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	22000		3500	1000	ug/Kg	100	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	7300		3500	680	ug/Kg	100	☼	8270D	Total/NA
Fluoranthene - DL	140000		3500	660	ug/Kg	100	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	24000		3500	920	ug/Kg	100	☼	8270D	Total/NA
Pyrene - DL	110000		3500	700	ug/Kg	100	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	700	J	1800	590	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	820		43	17	mg/Kg	10	☼	WI-DRO	Total/NA
Lead	280		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-05 (0-2)
Lab Sample ID: 500-168105-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	25	J	36	4.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	30	J	36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	230		36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	300		36	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	420		36	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	150		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	250		36	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	300		36	6.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.8	J	36	5.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110		36	9.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	79		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	390		36	7.3	ug/Kg	1	☼	8270D	Total/NA
Lead	22		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-06 (0-2) — Lab Sample ID: 500-168105-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	7.8	J	38	6.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	28	J	38	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	27	J	38	7.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	15	J	38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	27	J	38	7.5	ug/Kg	1	☼	8270D	Total/NA
Lead	8.5		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-07 (0-2) — Lab Sample ID: 500-168105-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	47		35	6.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	35		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	160		35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1100		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1300		35	9.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2000		35	6.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	42		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	6.5	J	35	5.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	710		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2000		35	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	1100		70	14	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1700		70	15	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	410		70	23	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	560		70	21	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	120		70	14	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	400		70	18	ug/Kg	2	☼	8270D	Total/NA
Lead	27		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-08 (0-2) — Lab Sample ID: 500-168105-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	32	J	36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	140		36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	140		36	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	170		36	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	46		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	92		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	170		36	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	16	J	36	7.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	240		36	6.8	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	57		36	9.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	76		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	220		36	7.3	ug/Kg	1	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	2.4	J	4.4	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	12		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-09 (0-2) — Lab Sample ID: 500-168105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	22	J	72	8.7	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	20	J	72	6.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	98		35	6.4	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample ID: GP-09 (0-2) (Continued)
Lab Sample ID: 500-168105-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	37		35	4.7	ug/Kg	1	☼	8270D	Total/NA
Anthracene	260		35	5.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1800		35	4.8	ug/Kg	1	☼	8270D	Total/NA
Chrysene	2200		35	9.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	84		35	5.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	23	J	35	5.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1400		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2400		140	27	ug/Kg	4	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	3700		140	31	ug/Kg	4	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	870		140	46	ug/Kg	4	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	1200		140	42	ug/Kg	4	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	240		140	27	ug/Kg	4	☼	8270D	Total/NA
Fluoranthene - DL	4300		140	26	ug/Kg	4	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	860		140	37	ug/Kg	4	☼	8270D	Total/NA
Pyrene - DL	5200		140	28	ug/Kg	4	☼	8270D	Total/NA
Lead	190		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	18	J	69	8.4	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	20	J	69	6.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	80		34	6.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	39		34	4.5	ug/Kg	1	☼	8270D	Total/NA
Anthracene	340		34	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	2000		34	4.6	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1900		34	9.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	82		34	4.8	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	88		34	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1100		34	4.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	2000		140	27	ug/Kg	4	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	2900		140	30	ug/Kg	4	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	600		140	44	ug/Kg	4	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	930		140	41	ug/Kg	4	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	200		140	27	ug/Kg	4	☼	8270D	Total/NA
Fluoranthene - DL	3400		140	26	ug/Kg	4	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	630		140	36	ug/Kg	4	☼	8270D	Total/NA
Pyrene - DL	4300		140	27	ug/Kg	4	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	8500		1800	580	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	30		4.3	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	32		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-11 (0-2)
Lab Sample ID: 500-168105-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	22	J	73	8.9	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	21	J	73	6.7	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	57		36	6.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	21	J	36	4.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	230		36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1000		36	4.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: GP-11 (0-2) (Continued) — Lab Sample ID: 500-168105-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chrysene	1000		36	9.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1800		36	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	67		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	19	J	36	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	970		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene - DL	990		72	14	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene - DL	1500		72	16	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene - DL	350		72	23	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene - DL	440		72	21	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene - DL	88		72	14	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene - DL	330		72	19	ug/Kg	2	☼	8270D	Total/NA
Pyrene - DL	2300		72	14	ug/Kg	2	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	58		4.5	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	98		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-12 (14-15) — Lab Sample ID: 500-168105-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Anthracene	6.5	J	36	6.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	11	J	36	6.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	16	J	36	5.0	ug/Kg	1	☼	8270D	Total/NA
Pyrene	16	J	36	7.1	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	2100		1900	620	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	11		4.4	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	9.5		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-13 (14-15) — Lab Sample ID: 500-168105-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	9.2	J	35	6.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	6.9	J	35	5.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	25	J	35	6.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	6.4	J	35	5.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	37		35	4.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	20	J	35	7.0	ug/Kg	1	☼	8270D	Total/NA
Lead	6.8		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-168105-1	GP-01 (0-2)	Solid	08/07/19 08:44	08/09/19 08:40	
500-168105-2	GP-02 (0-2)	Solid	08/07/19 09:13	08/09/19 08:40	
500-168105-3	GP-03 (0-2)	Solid	08/07/19 09:22	08/09/19 08:40	
500-168105-4	GP-04 (0-2)	Solid	08/07/19 09:39	08/09/19 08:40	
500-168105-5	GP-05 (0-2)	Solid	08/07/19 11:24	08/09/19 08:40	
500-168105-6	GP-06 (0-2)	Solid	08/07/19 11:29	08/09/19 08:40	
500-168105-7	GP-07 (0-2)	Solid	08/07/19 12:06	08/09/19 08:40	
500-168105-8	GP-08 (0-2)	Solid	08/07/19 12:35	08/09/19 08:40	
500-168105-9	GP-09 (0-2)	Solid	08/07/19 13:30	08/09/19 08:40	
500-168105-10	GP-10 (0-2)	Solid	08/07/19 13:35	08/09/19 08:40	
500-168105-11	GP-11 (0-2)	Solid	08/07/19 11:55	08/09/19 08:40	
500-168105-12	GP-12 (14-15)	Solid	08/07/19 12:50	08/09/19 08:40	
500-168105-13	GP-13 (14-15)	Solid	08/07/19 13:20	08/09/19 08:40	

Client Sample ID: GP-01 (0-2)

Lab Sample ID: 500-168105-1
Date Collected: 08/07/19 08:44 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 87.4**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Acenaphthylene	**17**	**J**	37	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Anthracene	**13**	**J**	37	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Benzo[a]anthracene	**110**		37	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Benzo[a]pyrene	**140**		37	7.2	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Benzo[b]fluoranthene	**190**		37	8.1	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Benzo[g,h,i]perylene	**23**	**J**	37	12	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Benzo[k]fluoranthene	**73**		37	11	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Chrysene	**120**		37	10	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Dibenz(a,h)anthracene	<7.2		37	7.2	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Fluoranthene	**130**		37	6.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Indeno[1,2,3-cd]pyrene	**35**	**J**	37	9.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Phenanthrene	**26**	**J**	37	5.2	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1
Pyrene	**120**		37	7.4	ug/Kg	☼	08/19/19 21:03	08/20/19 18:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*85*		*43 - 145*	*08/19/19 21:03*	*08/20/19 18:57*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*08/19/19 21:03*	*08/20/19 18:57*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*08/19/19 21:03*	*08/20/19 18:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**14**		0.55	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 15:30	1

Client Sample ID: GP-02 (0-2)

Lab Sample ID: 500-168105-2
Date Collected: 08/07/19 09:13 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 90.4**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**16**	**J**	72	8.7	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
2-Methylnaphthalene	**13**	**J**	72	6.6	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Acenaphthene	**36**		35	6.4	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Acenaphthylene	**9.5**	**J**	35	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Anthracene	**460**	**F2 F1**	35	6.0	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Benzo[a]anthracene	**1500**	**F1 F2**	35	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Chrysene	**1400**	**F1 F2**	35	9.7	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Fluoranthene	**2400**	**F1 F2**	35	6.6	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Fluorene	**50**		35	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Naphthalene	**16**	**J**	35	5.5	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Phenanthrene	**840**	**F2 F1**	35	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1
Pyrene	**1900**	**F1 F2**	35	7.1	ug/Kg	☼	08/19/19 21:03	08/20/19 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*96*		*43 - 145*	*08/19/19 21:03*	*08/20/19 19:24*	*1*
Nitrobenzene-d5 (Surr)	*88*		*37 - 147*	*08/19/19 21:03*	*08/20/19 19:24*	*1*
Terphenyl-d14 (Surr)	*109*		*42 - 157*	*08/19/19 21:03*	*08/20/19 19:24*	*1*

Client Sample ID: GP-02 (0-2)

Lab Sample ID: 500-168105-2
Date Collected: 08/07/19 09:13
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1300	F1 F2	71	14	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2
Benzo[b]fluoranthene	1800	F1 F2	71	15	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2
Benzo[g,h,i]perylene	410	F1 F2	71	23	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2
Benzo[k]fluoranthene	630	F2 F1	71	21	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2
Dibenz(a,h)anthracene	140	F1	71	14	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2
Indeno[1,2,3-cd]pyrene	430	F1	71	18	ug/Kg	☼	08/19/19 21:03	08/21/19 19:26	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		0.50	0.23	mg/Kg	☼	08/15/19 16:04	08/16/19 15:34	1

Client Sample ID: GP-03 (0-2)

Lab Sample ID: 500-168105-3
Date Collected: 08/07/19 09:22
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 92.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	17	J	70	8.5	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
2-Methylnaphthalene	14	J	70	6.4	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Acenaphthene	150		35	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Acenaphthylene	31	J	35	4.6	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Anthracene	480		35	5.8	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Benzo[a]anthracene	1900		35	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Chrysene	2000		35	9.5	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Fluorene	150		35	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Naphthalene	13	J	35	5.4	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1
Phenanthrene	1900		35	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*93*		*43 - 145*	*08/19/19 21:03*	*08/20/19 19:51*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*08/19/19 21:03*	*08/20/19 19:51*	*1*
Terphenyl-d14 (Surr)	*114*		*42 - 157*	*08/19/19 21:03*	*08/20/19 19:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	1700		170	34	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Benzo[b]fluoranthene	2100		170	38	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Benzo[g,h,i]perylene	1000		170	56	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Benzo[k]fluoranthene	760		170	51	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Dibenz(a,h)anthracene	240		170	34	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Fluoranthene	3700		170	32	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Indeno[1,2,3-cd]pyrene	920		170	45	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5
Pyrene	3200		170	35	ug/Kg	☼	08/19/19 21:03	08/23/19 12:35	5

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<580		1700	580	ug/Kg	☼	08/07/19 09:22	08/13/19 14:41	50

Client Sample ID: GP-03 (0-2)
Lab Sample ID: 500-168105-3
Date Collected: 08/07/19 09:22 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 92.5**

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	24		4.2	1.7	mg/Kg	☼	08/15/19 07:40	08/15/19 14:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*76*		*44 - 148*	*08/15/19 07:40*	*08/15/19 14:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		0.49	0.23	mg/Kg	☼	08/15/19 16:04	08/16/19 15:38	1

Client Sample ID: GP-04 (0-2)
Lab Sample ID: 500-168105-4
Date Collected: 08/07/19 09:39 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 92.7**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<430		3600	430	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
2-Methylnaphthalene	<330		3600	330	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Acenaphthene	5200		1800	320	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Acenaphthylene	530	J	1800	230	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Anthracene	22000		1800	300	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Benzo[a]anthracene	60000		1800	240	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Chrysene	58000		1800	480	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Fluorene	6900		1800	250	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Naphthalene	<270		1800	270	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50
Phenanthrene	80000		1800	250	ug/Kg	☼	08/19/19 21:03	08/21/19 18:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*43 - 145*	*08/19/19 21:03*	*08/21/19 18:57*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 147*	*08/19/19 21:03*	*08/21/19 18:57*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*42 - 157*	*08/19/19 21:03*	*08/21/19 18:57*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	49000		3500	680	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Benzo[b]fluoranthene	59000		3500	760	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Benzo[g,h,i]perylene	27000		3500	1100	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Benzo[k]fluoranthene	22000		3500	1000	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Dibenz(a,h)anthracene	7300		3500	680	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Fluoranthene	140000		3500	660	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Indeno[1,2,3-cd]pyrene	24000		3500	920	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100
Pyrene	110000		3500	700	ug/Kg	☼	08/19/19 21:03	08/23/19 13:03	100

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	700	J	1800	590	ug/Kg	☼	08/07/19 09:39	08/13/19 15:16	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	820		43	17	mg/Kg	☼	08/15/19 07:40	08/16/19 07:30	10

Client Sample ID: GP-04 (0-2)
Lab Sample ID: 500-168105-4
Date Collected: 08/07/19 09:39 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 92.7**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	63		44 - 148	08/15/19 07:40	08/16/19 07:30	10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**280**		0.48	0.22	mg/Kg	☼	08/15/19 16:04	08/16/19 15:50	1

Client Sample ID: GP-05 (0-2)
Lab Sample ID: 500-168105-5
Date Collected: 08/07/19 11:24 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 87.9**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		74	8.9	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
2-Methylnaphthalene	<6.7		74	6.7	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Acenaphthene	<6.6		36	6.6	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Acenaphthylene	**25**	**J**	36	4.8	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Anthracene	**30**	**J**	36	6.1	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Benzo[a]anthracene	**230**		36	4.9	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Benzo[a]pyrene	**300**		36	7.1	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Benzo[b]fluoranthene	**420**		36	7.9	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Benzo[g,h,i]perylene	**110**		36	12	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Benzo[k]fluoranthene	**150**		36	11	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Chrysene	**250**		36	10	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Dibenz(a,h)anthracene	<7.1		36	7.1	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Fluoranthene	**300**		36	6.8	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Fluorene	**6.8**	**J**	36	5.1	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Indeno[1,2,3-cd]pyrene	**110**		36	9.5	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Phenanthrene	**79**		36	5.1	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1
Pyrene	**390**		36	7.3	ug/Kg	☼	08/19/19 21:03	08/21/19 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	83		43 - 145	08/19/19 21:03	08/21/19 17:33	1
Nitrobenzene-d5 (Surr)	77		37 - 147	08/19/19 21:03	08/21/19 17:33	1
Terphenyl-d14 (Surr)	170	X	42 - 157	08/19/19 21:03	08/21/19 17:33	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**22**		0.55	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 15:54	1

Client Sample ID: GP-06 (0-2)
Lab Sample ID: 500-168105-6
Date Collected: 08/07/19 11:29 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 85.1**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		76	9.2	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
2-Methylnaphthalene	<7.0		76	7.0	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Acenaphthene	**7.8**	**J**	38	6.8	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Acenaphthylene	<5.0		38	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Anthracene	<6.3		38	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Benzo[a]anthracene	<5.1		38	5.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1

Client Sample ID: GP-06 (0-2)

Lab Sample ID: 500-168105-6
Date Collected: 08/07/19 11:29
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 85.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<7.3		38	7.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Benzo[b]fluoranthene	<8.2		38	8.2	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Chrysene	**28**	**J**	38	10	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Dibenz(a,h)anthracene	<7.3		38	7.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Fluoranthene	**27**	**J**	38	7.0	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Fluorene	<5.3		38	5.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Indeno[1,2,3-cd]pyrene	<9.8		38	9.8	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Naphthalene	<5.8		38	5.8	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Phenanthrene	**15**	**J**	38	5.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1
Pyrene	**27**	**J**	38	7.5	ug/Kg	☼	08/19/19 21:03	08/20/19 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*	*08/19/19 21:03*	*08/20/19 17:09*	*1*
Nitrobenzene-d5 (Surr)	*85*		*37 - 147*	*08/19/19 21:03*	*08/20/19 17:09*	*1*
Terphenyl-d14 (Surr)	*102*		*42 - 157*	*08/19/19 21:03*	*08/20/19 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.5**		0.53	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 15:58	1

Client Sample ID: GP-07 (0-2)

Lab Sample ID: 500-168105-7
Date Collected: 08/07/19 12:06
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.6		71	8.6	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
2-Methylnaphthalene	<6.5		71	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Acenaphthene	**47**		35	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Acenaphthylene	**35**		35	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Anthracene	**160**		35	5.9	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Benzo[a]anthracene	**1100**		35	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Chrysene	**1300**		35	9.6	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Fluoranthene	**2000**		35	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Fluorene	**42**		35	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Naphthalene	**6.5**	**J**	35	5.4	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Phenanthrene	**710**		35	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1
Pyrene	**2000**		35	7.0	ug/Kg	☼	08/19/19 21:03	08/20/19 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*	*08/19/19 21:03*	*08/20/19 20:45*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*08/19/19 21:03*	*08/20/19 20:45*	*1*
Terphenyl-d14 (Surr)	*124*		*42 - 157*	*08/19/19 21:03*	*08/20/19 20:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	**1100**		70	14	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2
Benzo[b]fluoranthene	**1700**		70	15	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2
Benzo[g,h,i]perylene	**410**		70	23	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2

Client Sample ID: GP-07 (0-2)

Lab Sample ID: 500-168105-7
Date Collected: 08/07/19 12:06
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 90.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	**560**		70	21	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2
Dibenz(a,h)anthracene	**120**		70	14	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2
Indeno[1,2,3-cd]pyrene	**400**		70	18	ug/Kg	☼	08/19/19 21:03	08/21/19 20:23	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**27**		0.53	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 16:02	1

Client Sample ID: GP-08 (0-2)

Lab Sample ID: 500-168105-8
Date Collected: 08/07/19 12:35
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 89.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		74	8.9	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
2-Methylnaphthalene	<6.7		74	6.7	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Acenaphthene	<6.6		36	6.6	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Anthracene	**32**	**J**	36	6.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Benzo[a]anthracene	**140**		36	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Benzo[a]pyrene	**140**		36	7.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Benzo[b]fluoranthene	**170**		36	7.9	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Benzo[g,h,i]perylene	**46**		36	12	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Benzo[k]fluoranthene	**92**		36	11	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Chrysene	**170**		36	10	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Dibenz(a,h)anthracene	**16**	**J**	36	7.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Fluoranthene	**240**		36	6.8	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Indeno[1,2,3-cd]pyrene	**57**		36	9.5	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Phenanthrene	**76**		36	5.1	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1
Pyrene	**220**		36	7.3	ug/Kg	☼	08/19/19 21:03	08/20/19 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*58*		*43 - 145*	*08/19/19 21:03*	*08/20/19 17:37*	*1*
Nitrobenzene-d5 (Surr)	*48*		*37 - 147*	*08/19/19 21:03*	*08/20/19 17:37*	*1*
Terphenyl-d14 (Surr)	*77*		*42 - 157*	*08/19/19 21:03*	*08/20/19 17:37*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<630		1900	630	ug/Kg	☼	08/07/19 12:35	08/16/19 14:30	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**2.4**	**J**	4.4	1.8	mg/Kg	☼	08/15/19 07:40	08/16/19 08:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*76*		*44 - 148*	*08/15/19 07:40*	*08/16/19 08:23*	*1*

Client Sample ID: GP-08 (0-2)
Lab Sample ID: 500-168105-8
Date Collected: 08/07/19 12:35 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 89.5**

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		0.51	0.23	mg/Kg	☼	08/15/19 16:04	08/16/19 16:06	1

Client Sample ID: GP-09 (0-2)
Lab Sample ID: 500-168105-9
Date Collected: 08/07/19 13:30 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 89.7**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	22	J	72	8.7	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
2-Methylnaphthalene	20	J	72	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Acenaphthene	98		35	6.4	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Acenaphthylene	37		35	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Anthracene	260		35	5.9	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Benzo[a]anthracene	1800		35	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Chrysene	2200		35	9.7	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Fluorene	84		35	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Naphthalene	23	J	35	5.5	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1
Phenanthrene	1400		35	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*08/19/19 21:03*	*08/20/19 21:12*	*1*
Nitrobenzene-d5 (Surr)	*78*		*37 - 147*	*08/19/19 21:03*	*08/20/19 21:12*	*1*
Terphenyl-d14 (Surr)	*169*	*X*	*42 - 157*	*08/19/19 21:03*	*08/20/19 21:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2400		140	27	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Benzo[b]fluoranthene	3700		140	31	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Benzo[g,h,i]perylene	870		140	46	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Benzo[k]fluoranthene	1200		140	42	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Dibenz(a,h)anthracene	240		140	27	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Fluoranthene	4300		140	26	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Indeno[1,2,3-cd]pyrene	860		140	37	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4
Pyrene	5200		140	28	ug/Kg	☼	08/19/19 21:03	08/21/19 20:51	4

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	190		0.50	0.23	mg/Kg	☼	08/15/19 16:04	08/16/19 16:10	1

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10
Date Collected: 08/07/19 13:35 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 92.0**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	18	J	69	8.4	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
2-Methylnaphthalene	20	J	69	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Acenaphthene	80		34	6.2	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Acenaphthylene	39		34	4.5	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Anthracene	340		34	5.8	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Benzo[a]anthracene	2000		34	4.6	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10
Date Collected: 08/07/19 13:35 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 92.0**

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	1900		34	9.4	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Fluorene	82		34	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Naphthalene	88		34	5.3	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1
Phenanthrene	1100		34	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 21:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*77*		*43 - 145*	*08/19/19 21:03*	*08/20/19 21:39*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*08/19/19 21:03*	*08/20/19 21:39*	*1*
Terphenyl-d14 (Surr)	*159*	*X*	*42 - 157*	*08/19/19 21:03*	*08/20/19 21:39*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	2000		140	27	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Benzo[b]fluoranthene	2900		140	30	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Benzo[g,h,i]perylene	600		140	44	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Benzo[k]fluoranthene	930		140	41	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Dibenz(a,h)anthracene	200		140	27	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Fluoranthene	3400		140	26	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Indeno[1,2,3-cd]pyrene	630		140	36	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4
Pyrene	4300		140	27	ug/Kg	☼	08/19/19 21:03	08/21/19 21:19	4

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	8500		1800	580	ug/Kg	☼	08/07/19 13:35	08/13/19 16:26	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	30		4.3	1.7	mg/Kg	☼	08/15/19 07:40	08/16/19 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*73*		*44 - 148*	*08/15/19 07:40*	*08/16/19 08:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	32		0.50	0.23	mg/Kg	☼	08/15/19 16:04	08/16/19 16:14	1

Client Sample ID: GP-11 (0-2)
Lab Sample ID: 500-168105-11
Date Collected: 08/07/19 11:55 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 89.1**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	22	J	73	8.9	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
2-Methylnaphthalene	21	J	73	6.7	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Acenaphthene	57		36	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Acenaphthylene	21	J	36	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Anthracene	230		36	6.1	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Benzo[a]anthracene	1000		36	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Chrysene	1000		36	9.9	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Fluoranthene	1800		36	6.7	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1

Client Sample ID: GP-11 (0-2)

Lab Sample ID: 500-168105-11
Date Collected: 08/07/19 11:55 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 89.1**

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	67		36	5.1	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Naphthalene	19	J	36	5.6	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1
Phenanthrene	970		36	5.1	ug/Kg	☼	08/19/19 21:03	08/20/19 22:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*08/19/19 21:03*	*08/20/19 22:06*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*08/19/19 21:03*	*08/20/19 22:06*	*1*
Terphenyl-d14 (Surr)	*170*	*X*	*42 - 157*	*08/19/19 21:03*	*08/20/19 22:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	990		72	14	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Benzo[b]fluoranthene	1500		72	16	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Benzo[g,h,i]perylene	350		72	23	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Benzo[k]fluoranthene	440		72	21	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Dibenz(a,h)anthracene	88		72	14	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Indeno[1,2,3-cd]pyrene	330		72	19	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2
Pyrene	2300		72	14	ug/Kg	☼	08/19/19 21:03	08/21/19 21:48	2

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<620		1900	620	ug/Kg	☼	08/07/19 11:55	08/16/19 15:05	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	58		4.5	1.8	mg/Kg	☼	08/15/19 07:40	08/16/19 09:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*75*		*44 - 148*	*08/15/19 07:40*	*08/16/19 09:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	98		0.51	0.24	mg/Kg	☼	08/15/19 16:04	08/16/19 16:18	1

Client Sample ID: GP-12 (14-15)

Lab Sample ID: 500-168105-12
Date Collected: 08/07/19 12:50 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 88.7**

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.7		72	8.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
2-Methylnaphthalene	<6.6		72	6.6	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Acenaphthene	<6.4		36	6.4	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Acenaphthylene	<4.7		36	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Anthracene	6.5	J	36	6.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Benzo[a]anthracene	<4.8		36	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Benzo[a]pyrene	<6.9		36	6.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Benzo[b]fluoranthene	<7.7		36	7.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1

Client Sample ID: GP-12 (14-15)

Lab Sample ID: 500-168105-12
Date Collected: 08/07/19 12:50
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<9.8		36	9.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Dibenz(a,h)anthracene	<6.9		36	6.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Fluoranthene	**11**	**J**	36	6.6	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Fluorene	<5.0		36	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Indeno[1,2,3-cd]pyrene	<9.3		36	9.3	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Naphthalene	<5.5		36	5.5	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Phenanthrene	**16**	**J**	36	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1
Pyrene	**16**	**J**	36	7.1	ug/Kg	☼	08/19/19 21:03	08/20/19 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*08/19/19 21:03*	*08/20/19 18:03*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*08/19/19 21:03*	*08/20/19 18:03*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*08/19/19 21:03*	*08/20/19 18:03*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**2100**		1900	620	ug/Kg	☼	08/07/19 12:50	08/13/19 17:35	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**11**		4.4	1.8	mg/Kg	☼	08/15/19 07:40	08/16/19 09:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*75*		*44 - 148*	*08/15/19 07:40*	*08/16/19 09:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.5**		0.55	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 16:22	1

Client Sample ID: GP-13 (14-15)

Lab Sample ID: 500-168105-13
Date Collected: 08/07/19 13:20
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.6		71	8.6	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
2-Methylnaphthalene	<6.5		71	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Acenaphthene	**9.2**	**J**	35	6.3	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Acenaphthylene	<4.7		35	4.7	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Anthracene	**6.9**	**J**	35	5.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Benzo[a]anthracene	<4.8		35	4.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Benzo[a]pyrene	<6.8		35	6.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Benzo[b]fluoranthene	<7.6		35	7.6	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Chrysene	<9.6		35	9.6	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Dibenz(a,h)anthracene	<6.8		35	6.8	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Fluoranthene	**25**	**J**	35	6.5	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Fluorene	**6.4**	**J**	35	5.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Indeno[1,2,3-cd]pyrene	<9.2		35	9.2	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-13 (14-15)
Lab Sample ID: 500-168105-13
Date Collected: 08/07/19 13:20
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 90.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<5.4		35	5.4	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Phenanthrene	**37**		35	4.9	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1
Pyrene	**20**	**J**	35	7.0	ug/Kg	☼	08/19/19 21:03	08/20/19 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*	*08/19/19 21:03*	*08/20/19 18:30*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*08/19/19 21:03*	*08/20/19 18:30*	*1*
Terphenyl-d14 (Surr)	*106*		*42 - 157*	*08/19/19 21:03*	*08/20/19 18:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.8**		0.53	0.25	mg/Kg	☼	08/15/19 16:04	08/16/19 16:27	1

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

GC/MS Semi VOA

Prep Batch: 500540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-1	GP-01 (0-2)	Total/NA	Solid	3541	
500-168105-2 - DL	GP-02 (0-2)	Total/NA	Solid	3541	
500-168105-2	GP-02 (0-2)	Total/NA	Solid	3541	
500-168105-3 - DL	GP-03 (0-2)	Total/NA	Solid	3541	
500-168105-3	GP-03 (0-2)	Total/NA	Solid	3541	
500-168105-4 - DL	GP-04 (0-2)	Total/NA	Solid	3541	
500-168105-4	GP-04 (0-2)	Total/NA	Solid	3541	
500-168105-5	GP-05 (0-2)	Total/NA	Solid	3541	
500-168105-6	GP-06 (0-2)	Total/NA	Solid	3541	
500-168105-7 - DL	GP-07 (0-2)	Total/NA	Solid	3541	
500-168105-7	GP-07 (0-2)	Total/NA	Solid	3541	
500-168105-8	GP-08 (0-2)	Total/NA	Solid	3541	
500-168105-9 - DL	GP-09 (0-2)	Total/NA	Solid	3541	
500-168105-9	GP-09 (0-2)	Total/NA	Solid	3541	
500-168105-10 - DL	GP-10 (0-2)	Total/NA	Solid	3541	
500-168105-10	GP-10 (0-2)	Total/NA	Solid	3541	
500-168105-11 - DL	GP-11 (0-2)	Total/NA	Solid	3541	
500-168105-11	GP-11 (0-2)	Total/NA	Solid	3541	
500-168105-12	GP-12 (14-15)	Total/NA	Solid	3541	
500-168105-13	GP-13 (14-15)	Total/NA	Solid	3541	
MB 500-500540/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-500540/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-168105-2 MS	GP-02 (0-2)	Total/NA	Solid	3541	
500-168105-2 MSD	GP-02 (0-2)	Total/NA	Solid	3541	

Analysis Batch: 500572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-1	GP-01 (0-2)	Total/NA	Solid	8270D	500540
500-168105-2	GP-02 (0-2)	Total/NA	Solid	8270D	500540
500-168105-3	GP-03 (0-2)	Total/NA	Solid	8270D	500540
500-168105-6	GP-06 (0-2)	Total/NA	Solid	8270D	500540
500-168105-7	GP-07 (0-2)	Total/NA	Solid	8270D	500540
500-168105-8	GP-08 (0-2)	Total/NA	Solid	8270D	500540
500-168105-9	GP-09 (0-2)	Total/NA	Solid	8270D	500540
500-168105-10	GP-10 (0-2)	Total/NA	Solid	8270D	500540
500-168105-11	GP-11 (0-2)	Total/NA	Solid	8270D	500540
500-168105-12	GP-12 (14-15)	Total/NA	Solid	8270D	500540
500-168105-13	GP-13 (14-15)	Total/NA	Solid	8270D	500540

Analysis Batch: 500812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-2 - DL	GP-02 (0-2)	Total/NA	Solid	8270D	500540
500-168105-4	GP-04 (0-2)	Total/NA	Solid	8270D	500540
500-168105-5	GP-05 (0-2)	Total/NA	Solid	8270D	500540
500-168105-7 - DL	GP-07 (0-2)	Total/NA	Solid	8270D	500540
500-168105-9 - DL	GP-09 (0-2)	Total/NA	Solid	8270D	500540
500-168105-10 - DL	GP-10 (0-2)	Total/NA	Solid	8270D	500540
500-168105-11 - DL	GP-11 (0-2)	Total/NA	Solid	8270D	500540
500-168105-2 MS	GP-02 (0-2)	Total/NA	Solid	8270D	500540
500-168105-2 MSD	GP-02 (0-2)	Total/NA	Solid	8270D	500540

GC/MS Semi VOA

Analysis Batch: 500891

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-500540/1-A	Method Blank	Total/NA	Solid	8270D	500540
LCS 500-500540/2-A	Lab Control Sample	Total/NA	Solid	8270D	500540

Analysis Batch: 501286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-3 - DL	GP-03 (0-2)	Total/NA	Solid	8270D	500540
500-168105-4 - DL	GP-04 (0-2)	Total/NA	Solid	8270D	500540

GC VOA

Prep Batch: 499390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-3	GP-03 (0-2)	Total/NA	Solid	WI GRO	
500-168105-4	GP-04 (0-2)	Total/NA	Solid	WI GRO	
500-168105-8	GP-08 (0-2)	Total/NA	Solid	WI GRO	
500-168105-10	GP-10 (0-2)	Total/NA	Solid	WI GRO	
500-168105-11	GP-11 (0-2)	Total/NA	Solid	WI GRO	
500-168105-12	GP-12 (14-15)	Total/NA	Solid	WI GRO	
LB3 500-499390/9-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 500-499390/10-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 500-499390/11-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 499400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-3	GP-03 (0-2)	Total/NA	Solid	WI-GRO	499390
500-168105-4	GP-04 (0-2)	Total/NA	Solid	WI-GRO	499390
500-168105-10	GP-10 (0-2)	Total/NA	Solid	WI-GRO	499390
500-168105-12	GP-12 (14-15)	Total/NA	Solid	WI-GRO	499390
LB3 500-499390/9-A	Method Blank	Total/NA	Solid	WI-GRO	499390
LCS 500-499390/10-A	Lab Control Sample	Total/NA	Solid	WI-GRO	499390
LCSD 500-499390/11-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	499390

Analysis Batch: 500091

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-8	GP-08 (0-2)	Total/NA	Solid	WI-GRO	499390
500-168105-11	GP-11 (0-2)	Total/NA	Solid	WI-GRO	499390
LB3 500-499390/9-A	Method Blank	Total/NA	Solid	WI-GRO	499390
LCS 500-499390/10-A	Lab Control Sample	Total/NA	Solid	WI-GRO	499390
LCSD 500-499390/11-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	499390

GC Semi VOA

Prep Batch: 499797

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-3	GP-03 (0-2)	Total/NA	Solid	WI DRO PREP	
500-168105-4	GP-04 (0-2)	Total/NA	Solid	WI DRO PREP	
500-168105-8	GP-08 (0-2)	Total/NA	Solid	WI DRO PREP	
500-168105-10	GP-10 (0-2)	Total/NA	Solid	WI DRO PREP	
500-168105-11	GP-11 (0-2)	Total/NA	Solid	WI DRO PREP	
500-168105-12	GP-12 (14-15)	Total/NA	Solid	WI DRO PREP	
MB 500-499797/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-499797/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	

GC Semi VOA (Continued)

Prep Batch: 499797 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 500-499797/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 499907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-3	GP-03 (0-2)	Total/NA	Solid	WI-DRO	499797
500-168105-4	GP-04 (0-2)	Total/NA	Solid	WI-DRO	499797
500-168105-8	GP-08 (0-2)	Total/NA	Solid	WI-DRO	499797
500-168105-10	GP-10 (0-2)	Total/NA	Solid	WI-DRO	499797
500-168105-11	GP-11 (0-2)	Total/NA	Solid	WI-DRO	499797
500-168105-12	GP-12 (14-15)	Total/NA	Solid	WI-DRO	499797
MB 500-499797/1-A	Method Blank	Total/NA	Solid	WI-DRO	499797
LCS 500-499797/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	499797
LCSD 500-499797/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	499797

Metals

Prep Batch: 499962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-1	GP-01 (0-2)	Total/NA	Solid	3050B	
500-168105-2	GP-02 (0-2)	Total/NA	Solid	3050B	
500-168105-3	GP-03 (0-2)	Total/NA	Solid	3050B	
500-168105-4	GP-04 (0-2)	Total/NA	Solid	3050B	
500-168105-5	GP-05 (0-2)	Total/NA	Solid	3050B	
500-168105-6	GP-06 (0-2)	Total/NA	Solid	3050B	
500-168105-7	GP-07 (0-2)	Total/NA	Solid	3050B	
500-168105-8	GP-08 (0-2)	Total/NA	Solid	3050B	
500-168105-9	GP-09 (0-2)	Total/NA	Solid	3050B	
500-168105-10	GP-10 (0-2)	Total/NA	Solid	3050B	
500-168105-11	GP-11 (0-2)	Total/NA	Solid	3050B	
500-168105-12	GP-12 (14-15)	Total/NA	Solid	3050B	
500-168105-13	GP-13 (14-15)	Total/NA	Solid	3050B	
MB 500-499962/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-499962/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 500362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-1	GP-01 (0-2)	Total/NA	Solid	6010B	499962
500-168105-2	GP-02 (0-2)	Total/NA	Solid	6010B	499962
500-168105-3	GP-03 (0-2)	Total/NA	Solid	6010B	499962
500-168105-4	GP-04 (0-2)	Total/NA	Solid	6010B	499962
500-168105-5	GP-05 (0-2)	Total/NA	Solid	6010B	499962
500-168105-6	GP-06 (0-2)	Total/NA	Solid	6010B	499962
500-168105-7	GP-07 (0-2)	Total/NA	Solid	6010B	499962
500-168105-8	GP-08 (0-2)	Total/NA	Solid	6010B	499962
500-168105-9	GP-09 (0-2)	Total/NA	Solid	6010B	499962
500-168105-10	GP-10 (0-2)	Total/NA	Solid	6010B	499962
500-168105-11	GP-11 (0-2)	Total/NA	Solid	6010B	499962
500-168105-12	GP-12 (14-15)	Total/NA	Solid	6010B	499962
500-168105-13	GP-13 (14-15)	Total/NA	Solid	6010B	499962
MB 500-499962/1-A	Method Blank	Total/NA	Solid	6010B	499962
LCS 500-499962/2-A	Lab Control Sample	Total/NA	Solid	6010B	499962

QC Association Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

General Chemistry

Analysis Batch: 499465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-1	GP-01 (0-2)	Total/NA	Solid	Moisture	
500-168105-2	GP-02 (0-2)	Total/NA	Solid	Moisture	
500-168105-3	GP-03 (0-2)	Total/NA	Solid	Moisture	
500-168105-4	GP-04 (0-2)	Total/NA	Solid	Moisture	
500-168105-5	GP-05 (0-2)	Total/NA	Solid	Moisture	
500-168105-6	GP-06 (0-2)	Total/NA	Solid	Moisture	
500-168105-7	GP-07 (0-2)	Total/NA	Solid	Moisture	
500-168105-8	GP-08 (0-2)	Total/NA	Solid	Moisture	
500-168105-9	GP-09 (0-2)	Total/NA	Solid	Moisture	
500-168105-10	GP-10 (0-2)	Total/NA	Solid	Moisture	
500-168105-11	GP-11 (0-2)	Total/NA	Solid	Moisture	
500-168105-12	GP-12 (14-15)	Total/NA	Solid	Moisture	
500-168105-13	GP-13 (14-15)	Total/NA	Solid	Moisture	
500-168105-10 DU	GP-10 (0-2)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Job ID: 500-168105-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-168105-1	GP-01 (0-2)	85	77	101
500-168105-2	GP-02 (0-2)	96	88	109
500-168105-2 - DL	GP-02 (0-2)	96	100	151
500-168105-2 MS	GP-02 (0-2)	101	81	133
500-168105-2 MSD	GP-02 (0-2)	116	89	144
500-168105-3	GP-03 (0-2)	93	83	114
500-168105-3 - DL	GP-03 (0-2)	82	88	95
500-168105-4	GP-04 (0-2)	0 D	0 D	0 D
500-168105-4 - DL	GP-04 (0-2)	0 D	0 D	0 D
500-168105-5	GP-05 (0-2)	83	77	170 X
500-168105-6	GP-06 (0-2)	89	85	102
500-168105-7	GP-07 (0-2)	82	76	124
500-168105-7 - DL	GP-07 (0-2)	77	82	142
500-168105-8	GP-08 (0-2)	58	48	77
500-168105-9	GP-09 (0-2)	86	78	169 X
500-168105-9 - DL	GP-09 (0-2)	91	101	154
500-168105-10	GP-10 (0-2)	77	70	159 X
500-168105-10 - DL	GP-10 (0-2)	79	90	145
500-168105-11	GP-11 (0-2)	81	77	170 X
500-168105-11 - DL	GP-11 (0-2)	77	82	147
500-168105-12	GP-12 (14-15)	81	77	101
500-168105-13	GP-13 (14-15)	83	79	106
LCS 500-500540/2-A	Lab Control Sample	94	92	105
MB 500-500540/1-A	Method Blank	86	90	109

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		C9
Lab Sample ID	Client Sample ID	(44-148)
500-168105-3	GP-03 (0-2)	76
500-168105-4	GP-04 (0-2)	63
500-168105-8	GP-08 (0-2)	76
500-168105-10	GP-10 (0-2)	73
500-168105-11	GP-11 (0-2)	75
500-168105-12	GP-12 (14-15)	75
LCS 500-499797/2-A	Lab Control Sample	84
LCSD 500-499797/3-A	Lab Control Sample Dup	78
MB 500-499797/1-A	Method Blank	80

Surrogate Legend

C9 = n-Nonane

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-500540/1-A
Matrix: Solid
Analysis Batch: 500891

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 500540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Acenaphthene	<6.0		33	6.0	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Anthracene	<5.6		33	5.6	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Chrysene	<9.1		33	9.1	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Fluorene	<4.7		33	4.7	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/19/19 21:03	08/21/19 16:12	1
Pyrene	<6.6		33	6.6	ug/Kg		08/19/19 21:03	08/21/19 16:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*08/19/19 21:03*	*08/21/19 16:12*	*1*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*	*08/19/19 21:03*	*08/21/19 16:12*	*1*
Terphenyl-d14 (Surr)	*109*		*42 - 157*	*08/19/19 21:03*	*08/21/19 16:12*	*1*

Lab Sample ID: LCS 500-500540/2-A
Matrix: Solid
Analysis Batch: 500891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500540

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1180		ug/Kg		88	68 - 111
2-Methylnaphthalene	1330	1190		ug/Kg		89	69 - 112
Acenaphthene	1330	1190		ug/Kg		89	65 - 124
Acenaphthylene	1330	1190		ug/Kg		89	68 - 120
Anthracene	1330	1240		ug/Kg		93	70 - 114
Benzo[a]anthracene	1330	1300		ug/Kg		97	67 - 122
Benzo[a]pyrene	1330	1280		ug/Kg		96	65 - 133
Benzo[b]fluoranthene	1330	1210		ug/Kg		91	69 - 129
Benzo[g,h,i]perylene	1330	1240		ug/Kg		93	72 - 131
Benzo[k]fluoranthene	1330	1210		ug/Kg		91	68 - 127
Chrysene	1330	1310		ug/Kg		98	63 - 120
Dibenz(a,h)anthracene	1330	1290		ug/Kg		97	64 - 131
Fluoranthene	1330	1220		ug/Kg		91	62 - 120
Fluorene	1330	1230		ug/Kg		92	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1270		ug/Kg		95	68 - 130
Naphthalene	1330	1160		ug/Kg		87	63 - 110
Phenanthrene	1330	1220		ug/Kg		92	62 - 120
Pyrene	1330	1320		ug/Kg		99	61 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-500540/2-A
Matrix: Solid
Analysis Batch: 500891

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 500540

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2-Fluorobiphenyl (Surr)	94		43 - 145
Nitrobenzene-d5 (Surr)	92		37 - 147
Terphenyl-d14 (Surr)	105		42 - 157

Lab Sample ID: 500-168105-2 MS
Matrix: Solid
Analysis Batch: 500812

Client Sample ID: GP-02 (0-2)
Prep Type: Total/NA
Prep Batch: 500540

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	16		1430	1200		ug/Kg	☼	84	68 - 111
2-Methylnaphthalene	13		1430	1220		ug/Kg	☼	85	69 - 112
Acenaphthene	36	J	1430	1260		ug/Kg	☼	86	65 - 124
Acenaphthylene	9.5	J	1430	1180		ug/Kg	☼	81	68 - 120
Anthracene	460	F2 F1	1430	1470		ug/Kg	☼	76	70 - 114
Benzo[a]anthracene	1500	F1 F2	1430	1830	F1	ug/Kg	☼	26	67 - 122
Benzo[a]pyrene	1300	F1 F2	1430	1760	F1	ug/Kg	☼	32	65 - 133
Benzo[b]fluoranthene	1800	F1 F2	1430	2120	F1	ug/Kg	☼	20	69 - 129
Benzo[g,h,i]perylene	410	F1 F2	1430	819	F1	ug/Kg	☼	29	72 - 131
Benzo[k]fluoranthene	630	F2 F1	1430	1810		ug/Kg	☼	83	68 - 127
Chrysene	1400	F1 F2	1430	1590	F1	ug/Kg	☼	18	63 - 120
Dibenz(a,h)anthracene	140	F1	1430	797	F1	ug/Kg	☼	46	64 - 131
Fluoranthene	2400	F1 F2	1430	2450	F1	ug/Kg	☼	-28	62 - 120
Fluorene	50	J	1430	1240		ug/Kg	☼	84	62 - 120
Indeno[1,2,3-cd]pyrene	430	F1	1430	913	F1	ug/Kg	☼	34	68 - 130
Naphthalene	16	J	1430	1170		ug/Kg	☼	81	63 - 110
Phenanthrene	840	F2 F1	1430	1660		ug/Kg	☼	63	62 - 120
Pyrene	1900	F1 F2	1430	2510	E F1	ug/Kg	☼	-25	61 - 128

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	101		43 - 145
Nitrobenzene-d5 (Surr)	81		37 - 147
Terphenyl-d14 (Surr)	133		42 - 157

Lab Sample ID: 500-168105-2 MSD
Matrix: Solid
Analysis Batch: 500812

Client Sample ID: GP-02 (0-2)
Prep Type: Total/NA
Prep Batch: 500540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	16		1410	1410		ug/Kg	☼	100	68 - 111	16	30
2-Methylnaphthalene	13		1410	1420		ug/Kg	☼	101	69 - 112	16	30
Acenaphthene	36	J	1410	1510		ug/Kg	☼	105	65 - 124	18	30
Acenaphthylene	9.5	J	1410	1330		ug/Kg	☼	94	68 - 120	13	30
Anthracene	460	F2 F1	1410	2070	F1 F2	ug/Kg	☼	119	70 - 114	34	30
Benzo[a]anthracene	1500	F1 F2	1410	3000	E F2	ug/Kg	☼	109	67 - 122	48	30
Benzo[a]pyrene	1300	F1 F2	1410	2740	E F2	ug/Kg	☼	102	65 - 133	44	30
Benzo[b]fluoranthene	1800	F1 F2	1410	3680	E F1 F2	ug/Kg	☼	131	69 - 129	54	30
Benzo[g,h,i]perylene	410	F1 F2	1410	1130	F2 F1	ug/Kg	☼	51	72 - 131	32	30
Benzo[k]fluoranthene	630	F2 F1	1410	2530	E F1 F2	ug/Kg	☼	135	68 - 127	33	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-168105-2 MSD
Matrix: Solid
Analysis Batch: 500812

Client Sample ID: GP-02 (0-2)
Prep Type: Total/NA
Prep Batch: 500540

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chrysene	1400	F1 F2	1410	2590	E F2	ug/Kg	☼	89	63 - 120	48	30
Dibenz(a,h)anthracene	140	F1	1410	995	F1	ug/Kg	☼	61	64 - 131	22	30
Fluoranthene	2400	F1 F2	1410	5260	E F1 F2	ug/Kg	☼	170	62 - 120	73	30
Fluorene	50	J	1410	1570		ug/Kg	☼	108	62 - 120	23	30
Indeno[1,2,3-cd]pyrene	430	F1	1410	1230	F1	ug/Kg	☼	56	68 - 130	29	30
Naphthalene	16	J	1410	1350		ug/Kg	☼	95	63 - 110	14	30
Phenanthrene	840	F2 F1	1410	3420	E F1 F2	ug/Kg	☼	189	62 - 120	69	30
Pyrene	1900	F1 F2	1410	4840	E F1 F2	ug/Kg	☼	140	61 - 128	63	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*116*		*43 - 145*
Nitrobenzene-d5 (Surr)	*89*		*37 - 147*
Terphenyl-d14 (Surr)	*144*		*42 - 157*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-499390/9-A
Matrix: Solid
Analysis Batch: 499400

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499390

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		08/13/19 09:22	08/13/19 11:12	50

Lab Sample ID: LB3 500-499390/9-A
Matrix: Solid
Analysis Batch: 500091

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499390

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		08/13/19 09:22	08/16/19 13:20	50

Lab Sample ID: LCS 500-499390/10-A
Matrix: Solid
Analysis Batch: 499400

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	21800		ug/Kg		109	80 - 120

Lab Sample ID: LCS 500-499390/10-A
Matrix: Solid
Analysis Batch: 500091

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499390

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	19100		ug/Kg		96	80 - 120

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-499390/11-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 499400 — **Prep Batch: 499390**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)			20000	21000		ug/Kg		105	80 - 120	4	20

Lab Sample ID: LCSD 500-499390/11-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 500091 — **Prep Batch: 499390**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)			20000	19700		ug/Kg		98	80 - 120	3	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-499797/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 499907 — **Prep Batch: 499797**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		08/15/19 07:40	08/15/19 14:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*80*		*44 - 148*	*08/15/19 07:40*	*08/15/19 14:06*	*1*

Lab Sample ID: LCS 500-499797/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 499907 — **Prep Batch: 499797**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)			20.0	20.7		mg/Kg		104	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*84*		*44 - 148*

Lab Sample ID: LCSD 500-499797/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 499907 — **Prep Batch: 499797**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	19.8		mg/Kg		99	70 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*78*		*44 - 148*

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Job ID: 500-168105-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-499962/1-A
Matrix: Solid
Analysis Batch: 500362

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 499962

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/15/19 16:04	08/16/19 14:22	1

Lab Sample ID: LCS 500-499962/2-A
Matrix: Solid
Analysis Batch: 500362

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 499962

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.13		mg/Kg		91	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-01 (0-2) — Lab Sample ID: 500-168105-1
Date Collected: 08/07/19 08:44 — **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-01 (0-2) — Lab Sample ID: 500-168105-1
Date Collected: 08/07/19 08:44 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 87.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 18:57	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:30	EEN	TAL CHI

Client Sample ID: GP-02 (0-2) — Lab Sample ID: 500-168105-2
Date Collected: 08/07/19 09:13 — **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-02 (0-2) — Lab Sample ID: 500-168105-2
Date Collected: 08/07/19 09:13 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 90.4**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	2	500812	08/21/19 19:26	STW	TAL CHI
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 19:24	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:34	EEN	TAL CHI

Client Sample ID: GP-03 (0-2) — Lab Sample ID: 500-168105-3
Date Collected: 08/07/19 09:22 — **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-03 (0-2) — Lab Sample ID: 500-168105-3
Date Collected: 08/07/19 09:22 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	501286	08/23/19 12:35	AJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-03 (0-2) — Lab Sample ID: 500-168105-3

Date Collected: 08/07/19 09:22 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 92.5**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 19:51	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 09:22	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	499400	08/13/19 14:41	EMA	TAL CHI
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	499907	08/15/19 14:59	JBJ	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:38	EEN	TAL CHI

Client Sample ID: GP-04 (0-2) — Lab Sample ID: 500-168105-4

Date Collected: 08/07/19 09:39 — **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-04 (0-2) — Lab Sample ID: 500-168105-4

Date Collected: 08/07/19 09:39 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 92.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		50	500812	08/21/19 18:57	STW	TAL CHI
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	100	501286	08/23/19 13:03	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 09:39	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	499400	08/13/19 15:16	EMA	TAL CHI
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		10	499907	08/16/19 07:30	JBJ	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:50	EEN	TAL CHI

Client Sample ID: GP-05 (0-2) — Lab Sample ID: 500-168105-5

Date Collected: 08/07/19 11:24 — **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-05 (0-2) — Lab Sample ID: 500-168105-5

Date Collected: 08/07/19 11:24 — **Matrix: Solid**
Date Received: 08/09/19 08:40 — **Percent Solids: 87.9**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500812	08/21/19 17:33	STW	TAL CHI

Client Sample ID: GP-05 (0-2)
Date Collected: 08/07/19 11:24
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-5
Matrix: Solid
Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:54	EEN	TAL CHI

Client Sample ID: GP-06 (0-2)
Date Collected: 08/07/19 11:29
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-06 (0-2)
Date Collected: 08/07/19 11:29
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-6
Matrix: Solid
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 17:09	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 15:58	EEN	TAL CHI

Client Sample ID: GP-07 (0-2)
Date Collected: 08/07/19 12:06
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-07 (0-2)
Date Collected: 08/07/19 12:06
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-7
Matrix: Solid
Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	2	500812	08/21/19 20:23	STW	TAL CHI
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 20:45	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:02	EEN	TAL CHI

Client Sample ID: GP-08 (0-2)
Date Collected: 08/07/19 12:35
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-08 (0-2)
Lab Sample ID: 500-168105-8
Date Collected: 08/07/19 12:35
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 17:37	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 12:35	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	500091	08/16/19 14:30	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	499907	08/16/19 08:23	JBJ	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:06	EEN	TAL CHI

Client Sample ID: GP-09 (0-2)
Lab Sample ID: 500-168105-9
Date Collected: 08/07/19 13:30
Matrix: Solid
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-09 (0-2)
Lab Sample ID: 500-168105-9
Date Collected: 08/07/19 13:30
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	4	500812	08/21/19 20:51	STW	TAL CHI
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 21:12	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:10	EEN	TAL CHI

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10
Date Collected: 08/07/19 13:35
Matrix: Solid
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10
Date Collected: 08/07/19 13:35
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	4	500812	08/21/19 21:19	STW	TAL CHI
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 21:39	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 13:35	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	499400	08/13/19 16:26	EMA	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-10 (0-2)
Lab Sample ID: 500-168105-10
Date Collected: 08/07/19 13:35
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 92.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	499907	08/16/19 08:49	JBJ	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:14	EEN	TAL CHI

Client Sample ID: GP-11 (0-2)
Lab Sample ID: 500-168105-11
Date Collected: 08/07/19 11:55
Matrix: Solid
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-11 (0-2)
Lab Sample ID: 500-168105-11
Date Collected: 08/07/19 11:55
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541	DL		500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	2	500812	08/21/19 21:48	STW	TAL CHI
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 22:06	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 11:55	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	500091	08/16/19 15:05	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	499907	08/16/19 09:16	JBJ	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:18	EEN	TAL CHI

Client Sample ID: GP-12 (14-15)
Lab Sample ID: 500-168105-12
Date Collected: 08/07/19 12:50
Matrix: Solid
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-12 (14-15)
Lab Sample ID: 500-168105-12
Date Collected: 08/07/19 12:50
Matrix: Solid
Date Received: 08/09/19 08:40
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 18:03	AJD	TAL CHI
Total/NA	Prep	WI GRO			499390	08/07/19 12:50	EMA	TAL CHI
Total/NA	Analysis	WI-GRO		50	499400	08/13/19 17:35	EMA	TAL CHI
Total/NA	Prep	WI DRO PREP			499797	08/15/19 07:40	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	499907	08/16/19 09:43	JBJ	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Client Sample ID: GP-12 (14-15) Lab Sample ID: 500-168105-12

Date Collected: 08/07/19 12:50 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 88.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:22	EEN	TAL CHI

Client Sample ID: GP-13 (14-15) Lab Sample ID: 500-168105-13

Date Collected: 08/07/19 13:20 **Matrix: Solid**
Date Received: 08/09/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	499465	08/13/19 14:21	LWN	TAL CHI

Client Sample ID: GP-13 (14-15) Lab Sample ID: 500-168105-13

Date Collected: 08/07/19 13:20 **Matrix: Solid**
Date Received: 08/09/19 08:40 **Percent Solids: 90.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			500540	08/19/19 21:03	JP1	TAL CHI
Total/NA	Analysis	8270D		1	500572	08/20/19 18:30	AJD	TAL CHI
Total/NA	Prep	3050B			499962	08/15/19 16:04	BDE	TAL CHI
Total/NA	Analysis	6010B		1	500362	08/16/19 16:27	EEN	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-168105-1
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

500-168105

Client Information	Sampler: Alia Enright	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.1
Client Contact: Mr. Bryan Bergmann	Phone: (608)572-3845	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 2
Company: TRC Environmental Corporation.		Analysis Requested		Job #: 341633
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested: —			Preservation Codes:
City: Brookfield	TAT Requested (days): Standard 10-day			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: WI, 53045				
Phone:	PO #: Purchase Order Requested			
Email: bbergmann@trccompanies.com	WO #:			Other:
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	Project #: 50010540			
Site: I-43 (Capitol to Hampton)	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAHs (8270D)	Lead	GRO	DRO	Total Number of containers	Special Instructions/Note:
				Preservation Code:									
1	GP-01 (0-2)	8/7/19	8:44	G	Solid			X	X				
2	GP-02 (0-2)		9:13		Solid								
3	GP-03 (0-2)		9:22		Solid					X	X		
4	GP-04 (0-2)		9:39		Solid					X	X		
5	GP-05 (0-2)		11:24		Solid								
6	GP-06 (0-2)		11:29		Solid								
7	GP-07 (0-2)		12:06		Solid								
8	GP-08 (0-2)		12:35		Solid					X	X		
9	GP-09 (0-2)	13:30	~~13:35~~		Solid								
10	GP-10 (0-2)		13:35		Solid					X	X		
11	GP-11 (0-2)	↓	11:55	↓	Solid			↓	↓	X	X		

500-168105 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enright	8/8/19 9:25	TRC	Paula Buckley	8/9/19 0840	TACHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing | TestAmerica

500-168105

Client Information	Sampler: Alia Enright	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.2
Client Contact: Mr. Bryan Bergmann	Phone: (608) 572-3845	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 2 of 2
Company: TRC Environmental Corporation.		Analysis Requested		Job #: 341633
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested: -			Preservation Codes:
City: Brookfield	TAT Requested (days): standard 10-day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53045	PO #: Purchase Order Requested			Other:
Phone:	WO #:			
Email: bbergmann@trccompanies.com	Project #: 50010540			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	SSOW#:			
Site: I-43 (Capitol to Hampton)				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAHs (8270 D)	Lead	GRO	DRO	Total Number of containers	Special Instructions/Note:
				Preservation Code:									
12	GP-12 (14-15)	8/7/19	12:50	G	Solid			X	X	X	X		
13	GP-13 (14-15)	↓	13:20	↓	Solid			↓	↓				
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enright	8/8/19 9:25	TRC	Paula Buckley	8/9/19 0840	TACHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-168105-1

Login Number: 168105 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-168105-2
Client Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Authorized for release by:
9/16/2019 3:20:56 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Job ID: 500-168105-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-168105-2

Comments
No additional comments.

Receipt
The samples were received on 8/9/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Client Sample ID: GP-04 (0-2)
Lab Sample ID: 500-168105-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.039	J	0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-168105-4	GP-04 (0-2)	Solid	08/07/19 09:39	08/09/19 08:40	

Client Sample Results

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Client Sample ID: GP-04 (0-2) **Lab Sample ID: 500-168105-4**
Date Collected: 08/07/19 09:39 **Matrix: Solid**
Date Received: 08/09/19 08:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.039	J	0.050	0.0075	mg/L		09/13/19 07:41	09/16/19 11:31	1

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Metals

Leach Batch: 504369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-4	GP-04 (0-2)	TCLP	Solid	1311	
LB 500-504369/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 504651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-4	GP-04 (0-2)	TCLP	Solid	3010A	504369
LB 500-504369/1-B	Method Blank	TCLP	Solid	3010A	504369
LCS 500-504651/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 505035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-168105-4	GP-04 (0-2)	TCLP	Solid	6010B	504651
LB 500-504369/1-B	Method Blank	TCLP	Solid	6010B	504651
LCS 500-504651/2-A	Lab Control Sample	Total/NA	Solid	6010B	504651

Client: TRC Environmental Corporation.
Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-504651/2-A
Matrix: Solid
Analysis Batch: 505035

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504651

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.105		mg/L		105	80 - 120

Lab Sample ID: LB 500-504369/1-B
Matrix: Solid
Analysis Batch: 505035

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 504651

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		09/13/19 07:41	09/16/19 11:23	1

Lab Chronicle

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Client Sample ID: GP-04 (0-2)
Date Collected: 08/07/19 09:39
Date Received: 08/09/19 08:40

Lab Sample ID: 500-168105-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			504369	09/11/19 15:05	GCA	TAL CHI
TCLP	Prep	3010A			504651	09/13/19 07:41	BDE	TAL CHI
TCLP	Analysis	6010B		1	505035	09/16/19 11:31	JEF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-168105-2
Project/Site: I-43 Phase 2.5 Soil/Sediment 341633 TCLP

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

500-168105

Client Information	Sampler: Alia Enright	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.1
Client Contact: Mr. Bryan Bergmann	Phone: (608)572-3845	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 2
Company: TRC Environmental Corporation.		Analysis Requested		Job #: 341633
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested: —			Preservation Codes:
City: Brookfield	TAT Requested (days): Standard 10-day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53045	PO #: Purchase Order Requested			
Phone:	WO #:			Other:
Email: bbergmann@trccompanies.com	Project #: 50010540			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	SSOW#:			
Site: I-43 (Capitol to Hampton)				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAHs (8270D)	Lead	GRO	DRO	Total Number of containers	Special Instructions/Note:
	Preservation Code:												
1	GP-01 (0-2)	8/7/19	8:44	G	Solid			X	X				
2	GP-02 (0-2)		9:13		Solid								
3	GP-03 (0-2)		9:22		Solid					X	X		
4	GP-04 (0-2)		9:39		Solid					X	X		
5	GP-05 (0-2)		11:24		Solid								
6	GP-06 (0-2)		11:29		Solid								
7	GP-07 (0-2)		12:06		Solid								
8	GP-08 (0-2)		12:35		Solid					X	X		
9	GP-09 (0-2)	13:30	~~13:35~~		Solid								
10	GP-10 (0-2)		13:35		Solid					X	X		
11	GP-11 (0-2)	↓	11:55	↓	Solid			↓	↓	X	X		

500-168105 COC

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enright	8/8/19 9:25	TRC	Paula Buckley	8/9/19 0840	TACHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.4

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins | Environment Testing | TestAmerica

500-168105

Client Information	Sampler: Alia Enright	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.2
Client Contact: Mr. Bryan Bergmann	Phone: (608) 572-3845	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 2 of 2
Company: TRC Environmental Corporation.		Analysis Requested		Job #: 341633
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested: -			Preservation Codes:
City: Brookfield	TAT Requested (days): standard 10-day			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53045	PO #: Purchase Order Requested			Other:
Phone:	WO #:			
Email: bbergmann@trccompanies.com	Project #: 50010540			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	SSOW#:			
Site: I-43 (Capitol to Hampton)				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PAHs (8270 D)	Lead	GRO	DRO	Total Number of containers	Special Instructions/Note:
				Preservation Code:									
12	GP-12 (14-15)	8/7/19	12:50	G	Solid			X	X	X	X		
13	GP-13 (14-15)	↓	13:20	↓	Solid			↓	↓				
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enright	8/8/19 9:25	TRC	Paula Buckley	8/9/19 0840	TACHI
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 2.4

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-168105-2

Login Number: 168105 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Buckley, Paula M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-169238-1
Client Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
9/15/2019 7:11:47 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-169238-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-169238-1

Comments
No additional comments.

Receipt
The samples were received on 8/29/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.5º C.

Receipt Exceptions
A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC). Added to COC and logged in.

GC/MS VOA
The extraction LCS associated with preparation batch 502711 had 1,3,5-Trimethylbenzene, sec-Butylbenzene and tert-Butylbenzene recoveries above control limits. The instrument LCS associated with analytical batch 503031 had all analytes within control limits; therefore re-analysis was not performed. The data have been reported and qualified. P-1 (500-169238-1), P-2 (500-169238-2), P-3 (500-169238-3), P-4 (500-169238-4), S-1 (0-1) (500-169238-5), S-2 (0-1) (500-169238-6), S-3 (0-1) (500-169238-7), S-4 (0-1) (500-169238-8) and Trip Blank (500-169238-9)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following samples were diluted due to the nature of the sample matrix: P-2 (500-169238-2), S-2 (0-1) (500-169238-6), S-3 (0-1) (500-169238-7), (500-169238-C-6-E MS) and (500-169238-C-6-F MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The following samples contained one base surrogate outside acceptance limits: The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified. P-1 (500-169238-1), P-2 (500-169238-2), P-3 (500-169238-3), S-2 (0-1) (500-169238-6), S-4 (0-1) (500-169238-8), (500-169238-C-6-E MS) and (500-169238-C-6-F MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8081A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: P-1 (500-169238-1), P-2 (500-169238-2), P-3 (500-169238-3) and P-4 (500-169238-4). The reagent lot number used was: 190938.

Method(s) 8082A: The following samples required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: P-1 (500-169238-1), P-2 (500-169238-2), P-3 (500-169238-3), P-4 (500-169238-4), S-1 (0-1) (500-169238-5), S-2 (0-1) (500-169238-6), S-3 (0-1) (500-169238-7) and S-4 (0-1) (500-169238-8). The reagent lot number used was: 190938.

Method(s) 8082A: The following samples were diluted due to the nature of the sample matrix: P-3 (500-169238-3), P-4 (500-169238-4), S-1 (0-1) (500-169238-5), S-3 (0-1) (500-169238-7) and S-4 (0-1) (500-169238-8). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The following samples were diluted to bring the concentration of target analytes within the calibration range: P-1 (500-169238-1), P-2 (500-169238-2) and S-2 (0-1) (500-169238-6). Elevated reporting limits (RLs) are provided.

Method(s) 8082A: The surrogate recovery for DCB Decachlorobiphenyl was above the control limit in the following sample: P-1 (500-169238-1) and P-2 (500-169238-2); however, the surrogate Tetrachloro-m-xylene was within control limits. The laboratory's SOP allows one surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Job ID: 500-169238-1 (Continued)

Laboratory: Eurofins TestAmerica, Chicago (Continued)

Method(s) 8082A: The following samples contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor PCB-1242: P-1 (500-169238-1), P-2 (500-169238-2), P-3 (500-169238-3) and P-4 (500-169238-4).

Method(s) 8082A: The following sample contained more than one Aroclor with insufficient separation to quantify individually. The PCBs present are quantified as the predominant Aroclor PCB-1248: S-2 (0-1) (500-169238-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: P-1 — Lab Sample ID: 500-169238-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	51		40	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	21	J	40	5.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	120		40	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	630		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	620		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	1100		40	8.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	210		40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	310		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	880		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	39	J	40	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1700		40	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	25	J	40	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	230		40	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	310		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene - DL	5100		200	40	ug/Kg	5	☼	8270D	Total/NA
PCB-1242	760		210	68	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	760		210	39	ug/Kg	10	☼	8082A	Total/NA
Arsenic	1.6		1.1	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	18		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.28	B	0.22	0.040	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.3		1.1	0.55	mg/Kg	1	☼	6010B	Total/NA
Copper	16		1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Lead	38		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.5		1.1	0.32	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.78	J	1.1	0.65	mg/Kg	1	☼	6010B	Total/NA
Silver	0.64		0.55	0.14	mg/Kg	1	☼	6010B	Total/NA
Zinc	38		2.2	0.97	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.025		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: P-2 — Lab Sample ID: 500-169238-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	19	J	160	14	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	100		78	14	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	19	J	78	10	ug/Kg	2	☼	8270D	Total/NA
Anthracene	150		78	13	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	600		78	10	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	570		78	15	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	810		78	17	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	230		78	25	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	440		78	23	ug/Kg	2	☼	8270D	Total/NA
Chrysene	770		78	21	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	100		78	15	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	1700		78	14	ug/Kg	2	☼	8270D	Total/NA
Fluorene	110		78	11	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	300		78	20	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	25	J	78	12	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	590		78	11	ug/Kg	2	☼	8270D	Total/NA
Pyrene	2800		78	16	ug/Kg	2	☼	8270D	Total/NA
PCB-1242	730		200	65	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	730		200	38	ug/Kg	10	☼	8082A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-2 (Continued)

Lab Sample ID: 500-169238-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.5		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	23		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.21	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	10		1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Copper	23		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Lead	100		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA
Nickel	9.1		1.0	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.78		0.52	0.13	mg/Kg	1	☼	6010B	Total/NA
Zinc	78		2.1	0.91	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.014	J	0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: P-3

Lab Sample ID: 500-169238-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	52	J	78	9.4	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	52	J	78	7.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	34	J	38	7.0	ug/Kg	1	☼	8270D	Total/NA
Anthracene	58		38	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	140		38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130		38	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		38	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	62		38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	130		38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	190		38	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	330		38	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	49		38	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	61		38	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	51		38	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	240		38	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	670		38	7.7	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	180	J	200	66	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	180	J	200	38	ug/Kg	10	☼	8082A	Total/NA
Arsenic	2.1		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	23		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.33	B	0.21	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.8		1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Copper	10		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Lead	9.5		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Nickel	6.7		1.0	0.30	mg/Kg	1	☼	6010B	Total/NA
Silver	0.66		0.51	0.13	mg/Kg	1	☼	6010B	Total/NA
Zinc	68		2.1	0.90	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.030		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: P-4

Lab Sample ID: 500-169238-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	10	J	82	7.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	23	J	41	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	11	J	41	5.4	ug/Kg	1	☼	8270D	Total/NA
Anthracene	66		41	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	490		41	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	440		41	7.9	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: P-4 (Continued)

Lab Sample ID: 500-169238-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	640		41	8.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	180		41	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	300		41	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	550		41	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	1000		41	7.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28	J	41	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	190		41	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	7.3	J	41	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		41	5.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2100		41	8.1	ug/Kg	1	☼	8270D	Total/NA
PCB-1242	190	J	210	69	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	190	J	210	40	ug/Kg	10	☼	8082A	Total/NA
Arsenic	2.2		1.3	0.43	mg/Kg	1	☼	6010B	Total/NA
Barium	20		1.3	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	1.4	B	0.25	0.046	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.2		1.3	0.63	mg/Kg	1	☼	6010B	Total/NA
Copper	4.6		1.3	0.35	mg/Kg	1	☼	6010B	Total/NA
Lead	10		0.63	0.29	mg/Kg	1	☼	6010B	Total/NA
Nickel	5.4		1.3	0.37	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.0	J	1.3	0.74	mg/Kg	1	☼	6010B	Total/NA
Silver	0.16	J	0.63	0.16	mg/Kg	1	☼	6010B	Total/NA
Zinc	310		2.5	1.1	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.023		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-1 (0-1)

Lab Sample ID: 500-169238-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	9.7	J	36	4.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	15	J	36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	180		36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		36	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	160		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210		36	9.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	29	J	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	240		36	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.3	J	36	5.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	120		36	9.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	65		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	220		36	7.2	ug/Kg	1	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	4.0	J	4.5	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	2.9		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	20		1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.39	B	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	8.8		1.1	0.54	mg/Kg	1	☼	6010B	Total/NA
Lead	36		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.71	J	1.1	0.64	mg/Kg	1	☼	6010B	Total/NA
Silver	1.1		0.54	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.028		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: S-2 (0-1) — Lab Sample ID: 500-169238-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	25	J F1	160	22	ug/Kg	5	☼	8270D	Total/NA
Anthracene	74	J F1	160	28	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	670		160	22	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	870		160	32	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	1600	F1	160	36	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	470	F1	160	53	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	530	F1	160	49	ug/Kg	5	☼	8270D	Total/NA
Chrysene	990		160	45	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	120	J F1	160	32	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	1000		160	31	ug/Kg	5	☼	8270D	Total/NA
Fluorene	29	J	160	23	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	490	F1	160	43	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	370	F1	160	23	ug/Kg	5	☼	8270D	Total/NA
Pyrene	2000	F1	160	33	ug/Kg	5	☼	8270D	Total/NA
PCB-1248	590		170	68	ug/Kg	10	☼	8082A	Total/NA
Polychlorinated biphenyls, Total	590		170	33	ug/Kg	10	☼	8082A	Total/NA
Arsenic	2.1		0.93	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	60		0.93	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.66	B	0.19	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		0.93	0.46	mg/Kg	1	☼	6010B	Total/NA
Lead	51		0.46	0.21	mg/Kg	1	☼	6010B	Total/NA
Selenium	1.3		0.93	0.55	mg/Kg	1	☼	6010B	Total/NA
Silver	1.3		0.46	0.12	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.059		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-3 (0-1) — Lab Sample ID: 500-169238-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	14	J	150	14	ug/Kg	2	☼	8270D	Total/NA
Acenaphthene	95		75	14	ug/Kg	2	☼	8270D	Total/NA
Acenaphthylene	39	J	75	9.9	ug/Kg	2	☼	8270D	Total/NA
Anthracene	350		75	13	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]anthracene	1400		75	10	ug/Kg	2	☼	8270D	Total/NA
Benzo[a]pyrene	1200		75	15	ug/Kg	2	☼	8270D	Total/NA
Benzo[b]fluoranthene	2000		75	16	ug/Kg	2	☼	8270D	Total/NA
Benzo[g,h,i]perylene	600		75	24	ug/Kg	2	☼	8270D	Total/NA
Benzo[k]fluoranthene	840		75	22	ug/Kg	2	☼	8270D	Total/NA
Chrysene	1600		75	21	ug/Kg	2	☼	8270D	Total/NA
Dibenz(a,h)anthracene	130		75	15	ug/Kg	2	☼	8270D	Total/NA
Fluoranthene	2100		75	14	ug/Kg	2	☼	8270D	Total/NA
Fluorene	110		75	11	ug/Kg	2	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	630		75	20	ug/Kg	2	☼	8270D	Total/NA
Naphthalene	16	J	75	12	ug/Kg	2	☼	8270D	Total/NA
Phenanthrene	1500		75	10	ug/Kg	2	☼	8270D	Total/NA
Pyrene	2800		75	15	ug/Kg	2	☼	8270D	Total/NA
Arsenic	4.1		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	53		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.55	B	0.20	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	19		1.0	0.50	mg/Kg	1	☼	6010B	Total/NA
Lead	130		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Silver	2.4		0.51	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: S-3 (0-1) (Continued)

Lab Sample ID: 500-169238-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Mercury	0.037		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-4 (0-1)

Lab Sample ID: 500-169238-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	23	J	100	14	ug/Kg	1	☼	8270D	Total/NA
Anthracene	28	J	100	18	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	160		100	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		100	20	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		100	23	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	150		100	34	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	73	J	100	31	ug/Kg	1	☼	8270D	Total/NA
Chrysene	230		100	29	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	310		100	20	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	140		100	27	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	100		100	15	ug/Kg	1	☼	8270D	Total/NA
Pyrene	390		100	21	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.1		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	40		1.2	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.59	B	0.23	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	14		1.2	0.57	mg/Kg	1	☼	6010B	Total/NA
Lead	140		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.76	J	1.2	0.68	mg/Kg	1	☼	6010B	Total/NA
Silver	1.9		0.58	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.054		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-169238-9

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
8081A	Organochlorine Pesticides (GC)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-169238-1	P-1	Solid	08/28/19 09:15	08/29/19 09:30	
500-169238-2	P-2	Solid	08/28/19 09:35	08/29/19 09:30	
500-169238-3	P-3	Solid	08/28/19 09:50	08/29/19 09:30	
500-169238-4	P-4	Solid	08/28/19 10:10	08/29/19 09:30	
500-169238-5	S-1 (0-1)	Solid	08/28/19 10:25	08/29/19 09:30	
500-169238-6	S-2 (0-1)	Solid	08/28/19 10:40	08/29/19 09:30	
500-169238-7	S-3 (0-1)	Solid	08/28/19 10:50	08/29/19 09:30	
500-169238-8	S-4 (0-1)	Solid	08/28/19 11:05	08/29/19 09:30	
500-169238-9	Trip Blank	Solid	08/28/19 00:00	08/29/19 09:30	

Client Sample ID: P-1
Date Collected: 08/28/19 09:15
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-1
Matrix: Solid
Percent Solids: 79.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
2-Butanone (MEK)	<160		380	160	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Carbon tetrachloride	<29		75	29	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Chlorobenzene	<29		75	29	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Chloroform	<28		150	28	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
1,2-Dichloroethane	<30		75	30	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
1,1-Dichloroethene	<29		75	29	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Tetrachloroethene	<28		75	28	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Trichloroethene	<12		38	12	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50
Vinyl chloride	<20		75	20	ug/Kg	☼	08/28/19 09:15	09/05/19 15:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 126*	*08/28/19 09:15*	*09/05/19 15:07*	*50*
4-Bromofluorobenzene (Surr)	*115*		*72 - 124*	*08/28/19 09:15*	*09/05/19 15:07*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*08/28/19 09:15*	*09/05/19 15:07*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*08/28/19 09:15*	*09/05/19 15:07*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.9		82	9.9	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
2-Methylnaphthalene	<7.4		82	7.4	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Acenaphthene	**51**		40	7.3	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Acenaphthylene	**21**	**J**	40	5.3	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Anthracene	**120**		40	6.8	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Benzo[a]anthracene	**630**		40	5.4	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Benzo[a]pyrene	**620**		40	7.8	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Benzo[b]fluoranthene	**1100**		40	8.7	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Benzo[g,h,i]perylene	**210**		40	13	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Benzo[k]fluoranthene	**310**		40	12	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Chrysene	**880**		40	11	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Dibenz(a,h)anthracene	**39**	**J**	40	7.8	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Fluoranthene	**1700**		40	7.5	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Fluorene	**25**	**J**	40	5.7	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Indeno[1,2,3-cd]pyrene	**230**		40	10	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Naphthalene	<6.2		40	6.2	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1
Phenanthrene	**310**		40	5.6	ug/Kg	☼	09/10/19 19:13	09/12/19 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*64*		*43 - 145*	*09/10/19 19:13*	*09/12/19 18:33*	*1*
Nitrobenzene-d5 (Surr)	*54*		*37 - 147*	*09/10/19 19:13*	*09/12/19 18:33*	*1*
Terphenyl-d14 (Surr)	*180*	*X*	*42 - 157*	*09/10/19 19:13*	*09/12/19 18:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	**5100**		200	40	ug/Kg	☼	09/10/19 19:13	09/13/19 16:20	5

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<4.0		8.3	4.0	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1
Endrin	<0.29		2.1	0.29	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1
gamma-BHC (Lindane)	<0.45		2.1	0.45	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1

Client Sample ID: P-1
Lab Sample ID: 500-169238-1
Date Collected: 08/28/19 09:15
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 79.6

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor	<0.87		2.1	0.87	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1
Heptachlor epoxide	<0.73		2.1	0.73	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1
Methoxychlor	<0.40		10	0.40	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1
Toxaphene	<8.7		21	8.7	ug/Kg	☼	09/10/19 07:40	09/10/19 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*33 - 148*	*09/10/19 07:40*	*09/10/19 19:33*	*1*
Tetrachloro-m-xylene	*107*		*30 - 121*	*09/10/19 07:40*	*09/10/19 19:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<73		210	73	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1221	<91		210	91	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1232	<90		210	90	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1242	**760**		210	68	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1248	<81		210	81	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1254	<44		210	44	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
PCB-1260	<100		210	100	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10
Polychlorinated biphenyls, Total	**760**		210	39	ug/Kg	☼	09/10/19 07:40	09/10/19 17:48	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*109*		*49 - 129*	*09/10/19 07:40*	*09/10/19 17:48*	*10*
DCB Decachlorobiphenyl	*126*	*X*	*37 - 121*	*09/10/19 07:40*	*09/10/19 17:48*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**1.6**		1.1	0.38	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Barium	**18**		1.1	0.13	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Cadmium	**0.28**	**B**	0.22	0.040	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Chromium	**9.3**		1.1	0.55	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Copper	**16**		1.1	0.31	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Lead	**38**		0.55	0.26	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Nickel	**5.5**		1.1	0.32	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Selenium	**0.78**	**J**	1.1	0.65	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Silver	**0.64**		0.55	0.14	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1
Zinc	**38**		2.2	0.97	mg/Kg	☼	09/10/19 08:55	09/11/19 09:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.018	0.0060	mg/Kg	☼	09/10/19 15:00	09/11/19 14:00	1

Client Sample ID: P-2
Lab Sample ID: 500-169238-2
Date Collected: 08/28/19 09:35
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
2-Butanone (MEK)	<150		350	150	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
Carbon tetrachloride	<27		71	27	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
Chlorobenzene	<27		71	27	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50

Client Sample ID: P-2

Date Collected: 08/28/19 09:35
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-2

Matrix: Solid
Percent Solids: 83.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<26		140	26	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
1,2-Dichloroethane	<28		71	28	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
1,1-Dichloroethene	<28		71	28	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
Tetrachloroethene	<26		71	26	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
Trichloroethene	<12		35	12	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50
Vinyl chloride	<19		71	19	ug/Kg	☼	08/28/19 09:35	09/05/19 15:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*120*		*75 - 126*	*08/28/19 09:35*	*09/05/19 15:33*	*50*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*	*08/28/19 09:35*	*09/05/19 15:33*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*08/28/19 09:35*	*09/05/19 15:33*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*08/28/19 09:35*	*09/05/19 15:33*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<19		160	19	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
2-Methylnaphthalene	**19**	**J**	160	14	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Acenaphthene	**100**		78	14	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Acenaphthylene	**19**	**J**	78	10	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Anthracene	**150**		78	13	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Benzo[a]anthracene	**600**		78	10	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Benzo[a]pyrene	**570**		78	15	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Benzo[b]fluoranthene	**810**		78	17	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Benzo[g,h,i]perylene	**230**		78	25	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Benzo[k]fluoranthene	**440**		78	23	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Chrysene	**770**		78	21	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Dibenz(a,h)anthracene	**100**		78	15	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Fluoranthene	**1700**		78	14	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Fluorene	**110**		78	11	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Indeno[1,2,3-cd]pyrene	**300**		78	20	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Naphthalene	**25**	**J**	78	12	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Phenanthrene	**590**		78	11	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2
Pyrene	**2800**		78	16	ug/Kg	☼	09/10/19 19:13	09/13/19 14:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*76*		*43 - 145*	*09/10/19 19:13*	*09/13/19 14:24*	*2*
Nitrobenzene-d5 (Surr)	*73*		*37 - 147*	*09/10/19 19:13*	*09/13/19 14:24*	*2*
Terphenyl-d14 (Surr)	*213*	*X*	*42 - 157*	*09/10/19 19:13*	*09/13/19 14:24*	*2*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<3.9		8.0	3.9	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
Endrin	<0.28		2.0	0.28	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
gamma-BHC (Lindane)	<0.43		2.0	0.43	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
Heptachlor	<0.84		2.0	0.84	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
Heptachlor epoxide	<0.71		2.0	0.71	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
Methoxychlor	<0.39		9.9	0.39	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1
Toxaphene	<8.4		20	8.4	ug/Kg	☼	09/10/19 07:40	09/10/19 19:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*119*		*33 - 148*	*09/10/19 07:40*	*09/10/19 19:54*	*1*

Client Sample ID: P-2
Lab Sample ID: 500-169238-2
Date Collected: 08/28/19 09:35
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 83.0

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*91*		*30 - 121*	*09/10/19 07:40*	*09/10/19 19:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<70		200	70	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1221	<87		200	87	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1232	<87		200	87	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1242	**730**		200	65	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1248	<78		200	78	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1254	<43		200	43	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
PCB-1260	<98		200	98	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10
Polychlorinated biphenyls, Total	**730**		200	38	ug/Kg	☼	09/10/19 07:40	09/10/19 18:03	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*98*		*49 - 129*	*09/10/19 07:40*	*09/10/19 18:03*	*10*
DCB Decachlorobiphenyl	*132*	*X*	*37 - 121*	*09/10/19 07:40*	*09/10/19 18:03*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.5**		1.0	0.35	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Barium	**23**		1.0	0.12	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Cadmium	**0.33**	**B**	0.21	0.037	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Chromium	**10**		1.0	0.51	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Copper	**23**		1.0	0.29	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Lead	**100**		0.52	0.24	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Nickel	**9.1**		1.0	0.30	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Silver	**0.78**		0.52	0.13	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1
Zinc	**78**		2.1	0.91	mg/Kg	☼	09/10/19 08:55	09/11/19 10:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.014**	**J**	0.019	0.0063	mg/Kg	☼	09/10/19 15:00	09/11/19 14:02	1

Client Sample ID: P-3
Lab Sample ID: 500-169238-3
Date Collected: 08/28/19 09:50
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		18	11	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
2-Butanone (MEK)	<150		360	150	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Carbon tetrachloride	<28		73	28	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Chlorobenzene	<28		73	28	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Chloroform	<27		150	27	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
1,2-Dichloroethane	<28		73	28	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
1,1-Dichloroethene	<28		73	28	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Tetrachloroethene	<27		73	27	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Trichloroethene	<12		36	12	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50
Vinyl chloride	<19		73	19	ug/Kg	☼	08/28/19 09:50	09/05/19 15:59	50

Client Sample ID: P-3

Date Collected: 08/28/19 09:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-3

Matrix: Solid
Percent Solids: 81.7

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*08/28/19 09:50*	*09/05/19 15:59*	*50*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*	*08/28/19 09:50*	*09/05/19 15:59*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*08/28/19 09:50*	*09/05/19 15:59*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*08/28/19 09:50*	*09/05/19 15:59*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**52**	**J**	78	9.4	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
2-Methylnaphthalene	**52**	**J**	78	7.1	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Acenaphthene	**34**	**J**	38	7.0	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Anthracene	**58**		38	6.5	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Benzo[a]anthracene	**140**		38	5.2	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Benzo[a]pyrene	**130**		38	7.5	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Benzo[b]fluoranthene	**200**		38	8.4	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Benzo[g,h,i]perylene	**62**		38	12	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Benzo[k]fluoranthene	**130**		38	11	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Chrysene	**190**		38	11	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Dibenz(a,h)anthracene	<7.5		38	7.5	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Fluoranthene	**330**		38	7.2	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Fluorene	**49**		38	5.4	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Indeno[1,2,3-cd]pyrene	**61**		38	10	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Naphthalene	**51**		38	6.0	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Phenanthrene	**240**		38	5.4	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1
Pyrene	**670**		38	7.7	ug/Kg	☼	09/10/19 19:13	09/12/19 19:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*66*		*43 - 145*	*09/10/19 19:13*	*09/12/19 19:22*	*1*
Nitrobenzene-d5 (Surr)	*55*		*37 - 147*	*09/10/19 19:13*	*09/12/19 19:22*	*1*
Terphenyl-d14 (Surr)	*263*	*X*	*42 - 157*	*09/10/19 19:13*	*09/12/19 19:22*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<3.9		8.1	3.9	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
Endrin	<0.28		2.0	0.28	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
gamma-BHC (Lindane)	<0.44		2.0	0.44	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
Heptachlor	<0.84		2.0	0.84	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
Heptachlor epoxide	<0.71		2.0	0.71	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
Methoxychlor	<0.39		10	0.39	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1
Toxaphene	<8.5		20	8.5	ug/Kg	☼	09/10/19 07:40	09/10/19 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*143*		*33 - 148*	*09/10/19 07:40*	*09/10/19 20:14*	*1*
Tetrachloro-m-xylene	*95*		*30 - 121*	*09/10/19 07:40*	*09/10/19 20:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<71		200	71	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
PCB-1221	<88		200	88	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
PCB-1232	<87		200	87	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
PCB-1242	**180**	**J**	200	66	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10

Client Sample ID: P-3
Date Collected: 08/28/19 09:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-3
Matrix: Solid
Percent Solids: 81.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<79		200	79	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
PCB-1254	<43		200	43	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
PCB-1260	<98		200	98	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10
Polychlorinated biphenyls, Total	**180**	**J**	200	38	ug/Kg	☼	09/10/19 07:40	09/10/19 18:18	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*49 - 129*	*09/10/19 07:40*	*09/10/19 18:18*	*10*
DCB Decachlorobiphenyl	*103*		*37 - 121*	*09/10/19 07:40*	*09/10/19 18:18*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.1**		1.0	0.35	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Barium	**23**		1.0	0.12	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Cadmium	**0.33**	**B**	0.21	0.037	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Chromium	**9.8**		1.0	0.51	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Copper	**10**		1.0	0.29	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Lead	**9.5**		0.51	0.24	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Nickel	**6.7**		1.0	0.30	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Silver	**0.66**		0.51	0.13	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1
Zinc	**68**		2.1	0.90	mg/Kg	☼	09/10/19 08:55	09/11/19 10:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.030**		0.018	0.0061	mg/Kg	☼	09/10/19 15:00	09/11/19 14:04	1

Client Sample ID: P-4
Date Collected: 08/28/19 10:10
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-4
Matrix: Solid
Percent Solids: 77.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		20	11	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
2-Butanone (MEK)	<170		390	170	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Carbon tetrachloride	<30		78	30	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Chlorobenzene	<30		78	30	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Chloroform	<29		160	29	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
1,2-Dichloroethane	<31		78	31	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
1,1-Dichloroethene	<31		78	31	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Tetrachloroethene	<29		78	29	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Trichloroethene	<13		39	13	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50
Vinyl chloride	<21		78	21	ug/Kg	☼	08/28/19 10:10	09/05/19 16:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*121*		*75 - 126*	*08/28/19 10:10*	*09/05/19 16:25*	*50*
4-Bromofluorobenzene (Surr)	*112*		*72 - 124*	*08/28/19 10:10*	*09/05/19 16:25*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*08/28/19 10:10*	*09/05/19 16:25*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*08/28/19 10:10*	*09/05/19 16:25*	*50*

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: P-4
Date Collected: 08/28/19 10:10
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-4
Matrix: Solid
Percent Solids: 77.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		82	10	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
2-Methylnaphthalene	**10**	**J**	82	7.5	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Acenaphthene	**23**	**J**	41	7.3	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Acenaphthylene	**11**	**J**	41	5.4	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Anthracene	**66**		41	6.8	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Benzo[a]anthracene	**490**		41	5.5	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Benzo[a]pyrene	**440**		41	7.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Benzo[b]fluoranthene	**640**		41	8.8	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Benzo[g,h,i]perylene	**180**		41	13	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Benzo[k]fluoranthene	**300**		41	12	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Chrysene	**550**		41	11	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Dibenz(a,h)anthracene	<7.9		41	7.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Fluoranthene	**1000**		41	7.6	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Fluorene	**28**	**J**	41	5.7	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Indeno[1,2,3-cd]pyrene	**190**		41	11	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Naphthalene	**7.3**	**J**	41	6.3	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Phenanthrene	**190**		41	5.7	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1
Pyrene	**2100**		41	8.1	ug/Kg	☼	09/10/19 19:13	09/13/19 15:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*54*		*43 - 145*	*09/10/19 19:13*	*09/13/19 15:10*	*1*
Nitrobenzene-d5 (Surr)	*53*		*37 - 147*	*09/10/19 19:13*	*09/13/19 15:10*	*1*
Terphenyl-d14 (Surr)	*218*	*X*	*42 - 157*	*09/10/19 19:13*	*09/13/19 15:10*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<4.1		8.4	4.1	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
Endrin	<0.29		2.1	0.29	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
gamma-BHC (Lindane)	<0.46		2.1	0.46	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
Heptachlor	<0.88		2.1	0.88	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
Heptachlor epoxide	<0.75		2.1	0.75	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
Methoxychlor	<0.41		10	0.41	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1
Toxaphene	<8.9		21	8.9	ug/Kg	☼	09/10/19 07:40	09/10/19 20:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*33 - 148*	*09/10/19 07:40*	*09/10/19 20:35*	*1*
Tetrachloro-m-xylene	*68*		*30 - 121*	*09/10/19 07:40*	*09/10/19 20:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<74		210	74	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1221	<93		210	93	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1232	<92		210	92	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1242	**190**	**J**	210	69	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1248	<83		210	83	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1254	<45		210	45	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
PCB-1260	<100		210	100	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10
Polychlorinated biphenyls, Total	**190**	**J**	210	40	ug/Kg	☼	09/10/19 07:40	09/10/19 18:34	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*49 - 129*	*09/10/19 07:40*	*09/10/19 18:34*	*10*

Client Sample ID: P-4
Lab Sample ID: 500-169238-4

Date Collected: 08/28/19 10:10
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 77.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*111*		*37 - 121*	*09/10/19 07:40*	*09/10/19 18:34*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.2		1.3	0.43	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Barium	20		1.3	0.14	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Cadmium	1.4	B	0.25	0.046	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Chromium	8.2		1.3	0.63	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Copper	4.6		1.3	0.35	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Lead	10		0.63	0.29	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Nickel	5.4		1.3	0.37	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Selenium	1.0	J	1.3	0.74	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Silver	0.16	J	0.63	0.16	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1
Zinc	310		2.5	1.1	mg/Kg	☼	09/10/19 08:55	09/11/19 10:08	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.019	0.0064	mg/Kg	☼	09/10/19 15:00	09/11/19 14:06	1

Client Sample ID: S-1 (0-1)
Lab Sample ID: 500-169238-5

Date Collected: 08/28/19 10:25
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1,1-Trichloroethane	<23		62	23	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1-Dichloroethane	<25		62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,1-Dichloropropene	<18		62	18	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2,3-Trichlorobenzene	<28		62	28	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2,3-Trichloropropane	<26		120	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2-Dibromo-3-Chloropropane	<120		310	120	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,2-Dichloropropane	<26		62	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,3,5-Trimethylbenzene	<23	*	62	23	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,3-Dichloropropane	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
1,4-Dichlorobenzene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
2,2-Dichloropropane	<27		62	27	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
2-Chlorotoluene	<19		62	19	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Benzene	<9.0		15	9.0	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Bromobenzene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50

Client Sample ID: S-1 (0-1)
Date Collected: 08/28/19 10:25
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-5
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<26		62	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Bromoform	<30		62	30	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Bromomethane	<49		190	49	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Chlorobenzene	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Chloroethane	<31		62	31	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Chloroform	<23		120	23	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Chloromethane	<20		62	20	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Dibromomethane	<17		62	17	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Ethylbenzene	<11		15	11	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Isopropyl ether	<17		62	17	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Methyl tert-butyl ether	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Methylene Chloride	<100		310	100	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Naphthalene	<21		62	21	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
p-Isopropyltoluene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
sec-Butylbenzene	<25	*	62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Styrene	<24		62	24	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
tert-Butylbenzene	<25	*	62	25	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Toluene	<9.1		15	9.1	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
trans-1,3-Dichloropropene	<22		62	22	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Trichloroethene	<10		31	10	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Trichlorofluoromethane	<26		62	26	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Vinyl chloride	<16		62	16	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50
Xylenes, Total	<14		31	14	ug/Kg	☼	08/28/19 10:25	09/04/19 15:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*	*08/28/19 10:25*	*09/04/19 15:51*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*08/28/19 10:25*	*09/04/19 15:51*	*50*
Dibromofluoromethane	*96*		*75 - 120*	*08/28/19 10:25*	*09/04/19 15:51*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*08/28/19 10:25*	*09/04/19 15:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Acenaphthylene	**9.7**	**J**	36	4.8	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Anthracene	**15**	**J**	36	6.1	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Benzo[a]anthracene	**180**		36	4.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: S-1 (0-1)

Date Collected: 08/28/19 10:25
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-5

Matrix: Solid
Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	190		36	7.0	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Benzo[b]fluoranthene	310		36	7.8	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Benzo[g,h,i]perylene	120		36	12	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Benzo[k]fluoranthene	160		36	11	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Chrysene	210		36	9.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Dibenz(a,h)anthracene	29	J	36	7.0	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Fluoranthene	240		36	6.7	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Fluorene	7.3	J	36	5.1	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Indeno[1,2,3-cd]pyrene	120		36	9.4	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Phenanthrene	65		36	5.1	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1
Pyrene	220		36	7.2	ug/Kg	☼	09/10/19 19:13	09/13/19 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*104*		*43 - 145*	*09/10/19 19:13*	*09/13/19 15:33*	*1*
Nitrobenzene-d5 (Surr)	*82*		*37 - 147*	*09/10/19 19:13*	*09/13/19 15:33*	*1*
Terphenyl-d14 (Surr)	*176*	*X*	*42 - 157*	*09/10/19 19:13*	*09/13/19 15:33*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<64		180	64	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1221	<79		180	79	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1232	<78		180	78	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1242	<59		180	59	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1248	<71		180	71	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1254	<39		180	39	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
PCB-1260	<88		180	88	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10
Polychlorinated biphenyls, Total	<35		180	35	ug/Kg	☼	09/10/19 07:40	09/10/19 18:49	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*49 - 129*	*09/10/19 07:40*	*09/10/19 18:49*	*10*
DCB Decachlorobiphenyl	*98*		*37 - 121*	*09/10/19 07:40*	*09/10/19 18:49*	*10*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	4.0	J	4.5	1.8	mg/Kg	☼	09/06/19 09:43	09/06/19 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*60*		*44 - 148*	*09/06/19 09:43*	*09/06/19 14:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.9		1.1	0.37	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Barium	20		1.1	0.12	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Cadmium	0.39	B	0.22	0.039	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Chromium	8.8		1.1	0.54	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Lead	36		0.54	0.25	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Selenium	0.71	J	1.1	0.64	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1
Silver	1.1		0.54	0.14	mg/Kg	☼	09/09/19 10:35	09/10/19 13:01	1

Client: TRC Environmental Corporation.
Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Client Sample ID: S-1 (0-1)
Lab Sample ID: 500-169238-5
Date Collected: 08/28/19 10:25
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 89.4

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.028		0.017	0.0056	mg/Kg	☼	09/10/19 15:00	09/11/19 14:08	1

Client Sample ID: S-2 (0-1)
Lab Sample ID: 500-169238-6
Date Collected: 08/28/19 10:40
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 96.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<25		54	25	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1,1-Trichloroethane	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1,2,2-Tetrachloroethane	<22		54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1,2-Trichloroethane	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1-Dichloroethane	<22		54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1-Dichloroethene	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,1-Dichloropropene	<16		54	16	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2,3-Trichlorobenzene	<25		54	25	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2,4-Trichlorobenzene	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2,4-Trimethylbenzene	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2-Dibromo-3-Chloropropane	<110		270	110	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2-Dibromoethane	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2-Dichlorobenzene	<18		54	18	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2-Dichloroethane	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,2-Dichloropropane	<23		54	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,3,5-Trimethylbenzene	<21	*	54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,3-Dichlorobenzene	<22		54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,3-Dichloropropane	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
1,4-Dichlorobenzene	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
2,2-Dichloropropane	<24		54	24	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
2-Chlorotoluene	<17		54	17	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
4-Chlorotoluene	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Benzene	<8.0		14	8.0	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Bromobenzene	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Bromochloromethane	<23		54	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Bromodichloromethane	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Bromoform	<26		54	26	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Bromomethane	<43		160	43	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Carbon tetrachloride	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Chlorobenzene	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Chloroethane	<27		54	27	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Chloroform	<20		110	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Chloromethane	<17		54	17	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
cis-1,2-Dichloroethene	<22		54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
cis-1,3-Dichloropropene	<23		54	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Dibromochloromethane	<27		54	27	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Dibromomethane	<15		54	15	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Dichlorodifluoromethane	<37		160	37	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Ethylbenzene	<10		14	10	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Hexachlorobutadiene	<24		54	24	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Isopropyl ether	<15		54	15	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50

Client Sample ID: S-2 (0-1)

Date Collected: 08/28/19 10:40
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-6

Matrix: Solid
Percent Solids: 96.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Methyl tert-butyl ether	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Methylene Chloride	<89		270	89	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Naphthalene	<18		54	18	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
n-Butylbenzene	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
N-Propylbenzene	<23		54	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
p-Isopropyltoluene	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
sec-Butylbenzene	<22	*	54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Styrene	<21		54	21	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
tert-Butylbenzene	<22	*	54	22	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Tetrachloroethene	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Toluene	<8.0		14	8.0	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
trans-1,2-Dichloroethene	<19		54	19	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
trans-1,3-Dichloropropene	<20		54	20	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Trichloroethene	<8.9		27	8.9	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Trichlorofluoromethane	<23		54	23	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Vinyl chloride	<14		54	14	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50
Xylenes, Total	<12		27	12	ug/Kg	☼	08/28/19 10:40	09/04/19 16:16	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*08/28/19 10:40*	*09/04/19 16:16*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*08/28/19 10:40*	*09/04/19 16:16*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/28/19 10:40*	*09/04/19 16:16*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*08/28/19 10:40*	*09/04/19 16:16*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<40		330	40	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
2-Methylnaphthalene	<30		330	30	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Acenaphthene	<30		160	30	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Acenaphthylene	**25**	**J F1**	160	22	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Anthracene	**74**	**J F1**	160	28	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Benzo[a]anthracene	**670**		160	22	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Benzo[a]pyrene	**870**		160	32	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Benzo[b]fluoranthene	**1600**	**F1**	160	36	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Benzo[g,h,i]perylene	**470**	**F1**	160	53	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Benzo[k]fluoranthene	**530**	**F1**	160	49	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Chrysene	**990**		160	45	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Dibenz(a,h)anthracene	**120**	**J F1**	160	32	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Fluoranthene	**1000**		160	31	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Fluorene	**29**	**J**	160	23	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Indeno[1,2,3-cd]pyrene	**490**	**F1**	160	43	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Naphthalene	<26	F1	160	26	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Phenanthrene	**370**	**F1**	160	23	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5
Pyrene	**2000**	**F1**	160	33	ug/Kg	☼	09/10/19 19:13	09/12/19 20:36	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*82*		*43 - 145*	*09/10/19 19:13*	*09/12/19 20:36*	*5*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*09/10/19 19:13*	*09/12/19 20:36*	*5*
Terphenyl-d14 (Surr)	*199*	*X*	*42 - 157*	*09/10/19 19:13*	*09/12/19 20:36*	*5*

Client Sample ID: S-2 (0-1)
Lab Sample ID: 500-169238-6

Date Collected: 08/28/19 10:40
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 96.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<61		170	61	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1221	<76		170	76	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1232	<75		170	75	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1242	<57		170	57	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1248	**590**		170	68	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1254	<37		170	37	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
PCB-1260	<85		170	85	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10
Polychlorinated biphenyls, Total	**590**		170	33	ug/Kg	☼	09/10/19 07:40	09/10/19 19:05	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*49 - 129*	*09/10/19 07:40*	*09/10/19 19:05*	*10*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*09/10/19 07:40*	*09/10/19 19:05*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.1**		0.93	0.32	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Barium	**60**		0.93	0.11	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Cadmium	**0.66**	**B**	0.19	0.033	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Chromium	**18**		0.93	0.46	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Lead	**51**		0.46	0.21	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Selenium	**1.3**		0.93	0.55	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1
Silver	**1.3**		0.46	0.12	mg/Kg	☼	09/09/19 10:35	09/10/19 13:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.016	0.0054	mg/Kg	☼	09/10/19 15:00	09/11/19 14:09	1

Client Sample ID: S-3 (0-1)
Lab Sample ID: 500-169238-7

Date Collected: 08/28/19 10:50
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1-Dichloroethene	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,3,5-Trimethylbenzene	<26	*	68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50

Client Sample ID: S-3 (0-1)
Date Collected: 08/28/19 10:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-7
Matrix: Solid
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Benzene	<9.9		17	9.9	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Bromobenzene	<24		68	24	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Bromochloromethane	<29		68	29	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Bromoform	<33		68	33	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Bromomethane	<54		200	54	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Chlorobenzene	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Chloroethane	<34		68	34	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Chloroform	<25		140	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Chloromethane	<22		68	22	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Dibromomethane	<18		68	18	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Dichlorodifluoromethane	<46		200	46	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Isopropyl ether	<19		68	19	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Methylene Chloride	<110		340	110	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Naphthalene	<23		68	23	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
sec-Butylbenzene	<27	*	68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Styrene	<26		68	26	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
tert-Butylbenzene	<27	*	68	27	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Toluene	<10		17	10	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Trichloroethene	<11		34	11	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Vinyl chloride	<18		68	18	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50
Xylenes, Total	<15		34	15	ug/Kg	☼	08/28/19 10:50	09/04/19 16:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*08/28/19 10:50*	*09/04/19 16:43*	*50*
4-Bromofluorobenzene (Surr)	*107*		*72 - 124*	*08/28/19 10:50*	*09/04/19 16:43*	*50*
Dibromofluoromethane	*97*		*75 - 120*	*08/28/19 10:50*	*09/04/19 16:43*	*50*
Toluene-d8 (Surr)	*105*		*75 - 120*	*08/28/19 10:50*	*09/04/19 16:43*	*50*

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: S-3 (0-1)

Date Collected: 08/28/19 10:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-7

Matrix: Solid
Percent Solids: 85.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<18		150	18	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
2-Methylnaphthalene	**14**	**J**	150	14	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Acenaphthene	**95**		75	14	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Acenaphthylene	**39**	**J**	75	9.9	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Anthracene	**350**		75	13	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Benzo[a]anthracene	**1400**		75	10	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Benzo[a]pyrene	**1200**		75	15	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Benzo[b]fluoranthene	**2000**		75	16	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Benzo[g,h,i]perylene	**600**		75	24	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Benzo[k]fluoranthene	**840**		75	22	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Chrysene	**1600**		75	21	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Dibenz(a,h)anthracene	**130**		75	15	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Fluoranthene	**2100**		75	14	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Fluorene	**110**		75	11	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Indeno[1,2,3-cd]pyrene	**630**		75	20	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Naphthalene	**16**	**J**	75	12	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Phenanthrene	**1500**		75	10	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2
Pyrene	**2800**		75	15	ug/Kg	☼	09/10/19 19:13	09/13/19 15:57	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*94*		*43 - 145*	*09/10/19 19:13*	*09/13/19 15:57*	*2*
Nitrobenzene-d5 (Surr)	*92*		*37 - 147*	*09/10/19 19:13*	*09/13/19 15:57*	*2*
Terphenyl-d14 (Surr)	*145*		*42 - 157*	*09/10/19 19:13*	*09/13/19 15:57*	*2*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<68		190	68	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1221	<85		190	85	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1232	<84		190	84	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1242	<63		190	63	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1248	<76		190	76	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1254	<42		190	42	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
PCB-1260	<94		190	94	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10
Polychlorinated biphenyls, Total	<37		190	37	ug/Kg	☼	09/10/19 07:40	09/10/19 19:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*49 - 129*	*09/10/19 07:40*	*09/10/19 19:20*	*10*
DCB Decachlorobiphenyl	*101*		*37 - 121*	*09/10/19 07:40*	*09/10/19 19:20*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		1.0	0.35	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Barium	**53**		1.0	0.12	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Cadmium	**0.55**	**B**	0.20	0.037	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Chromium	**19**		1.0	0.50	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Lead	**130**		0.51	0.24	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1
Silver	**2.4**		0.51	0.13	mg/Kg	☼	09/09/19 10:35	09/10/19 13:17	1

Client Sample ID: S-3 (0-1)

Lab Sample ID: 500-169238-7
Date Collected: 08/28/19 10:50
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 85.0

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.037		0.019	0.0064	mg/Kg	☼	09/10/19 15:00	09/11/19 14:11	1

Client Sample ID: S-4 (0-1)

Lab Sample ID: 500-169238-8
Date Collected: 08/28/19 11:05
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2,3-Trichloropropane	<27		130	27	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2,4-Trichlorobenzene	<22		66	22	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,3,5-Trimethylbenzene	<25	*	66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Benzene	<9.6		16	9.6	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Bromobenzene	<23		66	23	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Bromochloromethane	<28		66	28	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Bromoform	<32		66	32	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Bromomethane	<52		200	52	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Chlorobenzene	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Chloroethane	<33		66	33	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Chloroform	<24		130	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Chloromethane	<21		66	21	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Dibromomethane	<18		66	18	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Ethylbenzene	<12		16	12	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Isopropyl ether	<18		66	18	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50

Client Sample ID: S-4 (0-1)

Date Collected: 08/28/19 11:05
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-8

Matrix: Solid
Percent Solids: 86.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Methylene Chloride	<110		330	110	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Naphthalene	<22		66	22	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
n-Butylbenzene	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
sec-Butylbenzene	<26	*	66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Styrene	<25		66	25	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
tert-Butylbenzene	<26	*	66	26	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Toluene	<9.7		16	9.7	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Trichloroethene	<11		33	11	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Vinyl chloride	<17		66	17	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50
Xylenes, Total	<14		33	14	ug/Kg	☼	08/28/19 11:05	09/04/19 17:08	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*08/28/19 11:05*	*09/04/19 17:08*	*50*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*	*08/28/19 11:05*	*09/04/19 17:08*	*50*
Dibromofluoromethane	*99*		*75 - 120*	*08/28/19 11:05*	*09/04/19 17:08*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/28/19 11:05*	*09/04/19 17:08*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<26		210	26	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
2-Methylnaphthalene	<19		210	19	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Acenaphthene	<19		100	19	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Acenaphthylene	**23**	**J**	100	14	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Anthracene	**28**	**J**	100	18	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Benzo[a]anthracene	**160**		100	14	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Benzo[a]pyrene	**190**		100	20	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Benzo[b]fluoranthene	**310**		100	23	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Benzo[g,h,i]perylene	**150**		100	34	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Benzo[k]fluoranthene	**73**	**J**	100	31	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Chrysene	**230**		100	29	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Dibenz(a,h)anthracene	<20		100	20	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Fluoranthene	**310**		100	20	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Fluorene	<15		100	15	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Indeno[1,2,3-cd]pyrene	**140**		100	27	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Naphthalene	<16		100	16	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Phenanthrene	**100**		100	15	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1
Pyrene	**390**		100	21	ug/Kg	☼	09/10/19 19:13	09/12/19 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*79*		*43 - 145*	*09/10/19 19:13*	*09/12/19 16:05*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*09/10/19 19:13*	*09/12/19 16:05*	*1*
Terphenyl-d14 (Surr)	*179*	*X*	*42 - 157*	*09/10/19 19:13*	*09/12/19 16:05*	*1*

Client Sample ID: S-4 (0-1)

Lab Sample ID: 500-169238-8

Date Collected: 08/28/19 11:05
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 86.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<68		190	68	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1221	<85		190	85	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1232	<84		190	84	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1242	<63		190	63	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1248	<76		190	76	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1254	<42		190	42	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
PCB-1260	<95		190	95	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10
Polychlorinated biphenyls, Total	<37		190	37	ug/Kg	☼	09/10/19 07:40	09/10/19 19:36	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*49 - 129*	*09/10/19 07:40*	*09/10/19 19:36*	*10*
DCB Decachlorobiphenyl	*96*		*37 - 121*	*09/10/19 07:40*	*09/10/19 19:36*	*10*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.1**		1.2	0.39	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Barium	**40**		1.2	0.13	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Cadmium	**0.59**	**B**	0.23	0.041	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Chromium	**14**		1.2	0.57	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Lead	**140**		0.58	0.27	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Selenium	**0.76**	**J**	1.2	0.68	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1
Silver	**1.9**		0.58	0.15	mg/Kg	☼	09/09/19 10:35	09/10/19 13:21	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.017	0.0056	mg/Kg	☼	09/10/19 15:00	09/11/19 14:17	1

Client Sample ID: Trip Blank

Lab Sample ID: 500-169238-9

Date Collected: 08/28/19 00:00
Matrix: Solid
Date Received: 08/29/19 09:30

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2-Dibromoethane	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,3,5-Trimethylbenzene	<19	*	50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50

Client Sample ID: Trip Blank
Date Collected: 08/28/19 00:00
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Benzene	<7.3		13	7.3	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Bromobenzene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Bromochloromethane	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Bromodichloromethane	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Bromoform	<24		50	24	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Bromomethane	<40		150	40	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Chlorobenzene	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Chloroethane	<25		50	25	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Chloroform	<19		100	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Chloromethane	<16		50	16	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Dibromochloromethane	<24		50	24	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Dibromomethane	<14		50	14	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Isopropyl ether	<14		50	14	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Isopropylbenzene	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Methylene Chloride	<82		250	82	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Naphthalene	<17		50	17	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
n-Butylbenzene	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
N-Propylbenzene	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
sec-Butylbenzene	<20	*	50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Styrene	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
tert-Butylbenzene	<20	*	50	20	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Tetrachloroethene	<19		50	19	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Toluene	<7.4		13	7.4	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Vinyl chloride	<13		50	13	ug/Kg		08/28/19 00:00	09/04/19 17:34	50
Xylenes, Total	<11		25	11	ug/Kg		08/28/19 00:00	09/04/19 17:34	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*08/28/19 00:00*	*09/04/19 17:34*	*50*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*	*08/28/19 00:00*	*09/04/19 17:34*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*08/28/19 00:00*	*09/04/19 17:34*	*50*
Toluene-d8 (Surr)	*106*		*75 - 120*	*08/28/19 00:00*	*09/04/19 17:34*	*50*

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 502711

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	5035	
500-169238-2	P-2	Total/NA	Solid	5035	
500-169238-3	P-3	Total/NA	Solid	5035	
500-169238-4	P-4	Total/NA	Solid	5035	
500-169238-5	S-1 (0-1)	Total/NA	Solid	5035	
500-169238-6	S-2 (0-1)	Total/NA	Solid	5035	
500-169238-7	S-3 (0-1)	Total/NA	Solid	5035	
500-169238-8	S-4 (0-1)	Total/NA	Solid	5035	
500-169238-9	Trip Blank	Total/NA	Solid	5035	
LB3 500-502711/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-502711/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-169238-8 MS	S-4 (0-1)	Total/NA	Solid	5035	
500-169238-8 MSD	S-4 (0-1)	Total/NA	Solid	5035	

Analysis Batch: 503031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	8260B	502711
500-169238-6	S-2 (0-1)	Total/NA	Solid	8260B	502711
500-169238-7	S-3 (0-1)	Total/NA	Solid	8260B	502711
500-169238-8	S-4 (0-1)	Total/NA	Solid	8260B	502711
500-169238-9	Trip Blank	Total/NA	Solid	8260B	502711
LB3 500-502711/21-A	Method Blank	Total/NA	Solid	8260B	502711
MB 500-503031/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-502711/22-A	Lab Control Sample	Total/NA	Solid	8260B	502711
LCS 500-503031/4	Lab Control Sample	Total/NA	Solid	8260B	
500-169238-8 MS	S-4 (0-1)	Total/NA	Solid	8260B	502711
500-169238-8 MSD	S-4 (0-1)	Total/NA	Solid	8260B	502711

Analysis Batch: 503262

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	8260B	502711
500-169238-2	P-2	Total/NA	Solid	8260B	502711
500-169238-3	P-3	Total/NA	Solid	8260B	502711
500-169238-4	P-4	Total/NA	Solid	8260B	502711
MB 500-503262/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-503262/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 504178

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1 - DL	P-1	Total/NA	Solid	3541	
500-169238-1	P-1	Total/NA	Solid	3541	
500-169238-2	P-2	Total/NA	Solid	3541	
500-169238-3	P-3	Total/NA	Solid	3541	
500-169238-4	P-4	Total/NA	Solid	3541	
500-169238-5	S-1 (0-1)	Total/NA	Solid	3541	
500-169238-6	S-2 (0-1)	Total/NA	Solid	3541	
500-169238-7	S-3 (0-1)	Total/NA	Solid	3541	
500-169238-8	S-4 (0-1)	Total/NA	Solid	3541	
MB 500-504178/1-A	Method Blank	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 504178 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-504178/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-169238-6 MS	S-2 (0-1)	Total/NA	Solid	3541	
500-169238-6 MSD	S-2 (0-1)	Total/NA	Solid	3541	

Analysis Batch: 504265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-504178/1-A	Method Blank	Total/NA	Solid	8270D	504178
LCS 500-504178/2-A	Lab Control Sample	Total/NA	Solid	8270D	504178

Analysis Batch: 504539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	8270D	504178
500-169238-3	P-3	Total/NA	Solid	8270D	504178
500-169238-6	S-2 (0-1)	Total/NA	Solid	8270D	504178
500-169238-8	S-4 (0-1)	Total/NA	Solid	8270D	504178
500-169238-6 MS	S-2 (0-1)	Total/NA	Solid	8270D	504178
500-169238-6 MSD	S-2 (0-1)	Total/NA	Solid	8270D	504178

Analysis Batch: 504713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1 - DL	P-1	Total/NA	Solid	8270D	504178
500-169238-2	P-2	Total/NA	Solid	8270D	504178
500-169238-4	P-4	Total/NA	Solid	8270D	504178
500-169238-5	S-1 (0-1)	Total/NA	Solid	8270D	504178
500-169238-7	S-3 (0-1)	Total/NA	Solid	8270D	504178

GC Semi VOA

Prep Batch: 503521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	WI DRO PREP	
MB 500-503521/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-503521/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-503521/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 503564

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	WI-DRO	503521
MB 500-503521/1-A	Method Blank	Total/NA	Solid	WI-DRO	503521
LCS 500-503521/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	503521
LCSD 500-503521/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	503521

Prep Batch: 503990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	3541	
500-169238-2	P-2	Total/NA	Solid	3541	
500-169238-3	P-3	Total/NA	Solid	3541	
500-169238-4	P-4	Total/NA	Solid	3541	
500-169238-5	S-1 (0-1)	Total/NA	Solid	3541	
500-169238-6	S-2 (0-1)	Total/NA	Solid	3541	
500-169238-7	S-3 (0-1)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 503990 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-8	S-4 (0-1)	Total/NA	Solid	3541	
MB 500-503990/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-503990/2-A	Lab Control Sample	Total/NA	Solid	3541	
LCS 500-503990/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 504046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	8081A	503990
500-169238-2	P-2	Total/NA	Solid	8081A	503990
500-169238-3	P-3	Total/NA	Solid	8081A	503990
500-169238-4	P-4	Total/NA	Solid	8081A	503990
MB 500-503990/1-A	Method Blank	Total/NA	Solid	8081A	503990
LCS 500-503990/2-A	Lab Control Sample	Total/NA	Solid	8081A	503990

Analysis Batch: 504087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	8082A	503990
500-169238-2	P-2	Total/NA	Solid	8082A	503990
500-169238-3	P-3	Total/NA	Solid	8082A	503990
500-169238-4	P-4	Total/NA	Solid	8082A	503990
500-169238-5	S-1 (0-1)	Total/NA	Solid	8082A	503990
500-169238-6	S-2 (0-1)	Total/NA	Solid	8082A	503990
500-169238-7	S-3 (0-1)	Total/NA	Solid	8082A	503990
500-169238-8	S-4 (0-1)	Total/NA	Solid	8082A	503990
MB 500-503990/1-A	Method Blank	Total/NA	Solid	8082A	503990
LCS 500-503990/3-A	Lab Control Sample	Total/NA	Solid	8082A	503990

Metals

Prep Batch: 503846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	3050B	
500-169238-6	S-2 (0-1)	Total/NA	Solid	3050B	
500-169238-7	S-3 (0-1)	Total/NA	Solid	3050B	
500-169238-8	S-4 (0-1)	Total/NA	Solid	3050B	
MB 500-503846/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-503846/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 504023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	3050B	
500-169238-2	P-2	Total/NA	Solid	3050B	
500-169238-3	P-3	Total/NA	Solid	3050B	
500-169238-4	P-4	Total/NA	Solid	3050B	
MB 500-504023/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-504023/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 504111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	7471B	
500-169238-2	P-2	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 504111 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-3	P-3	Total/NA	Solid	7471B	
500-169238-4	P-4	Total/NA	Solid	7471B	
500-169238-5	S-1 (0-1)	Total/NA	Solid	7471B	
500-169238-6	S-2 (0-1)	Total/NA	Solid	7471B	
500-169238-7	S-3 (0-1)	Total/NA	Solid	7471B	
500-169238-8	S-4 (0-1)	Total/NA	Solid	7471B	
MB 500-504111/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-504111/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 504115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	6010B	503846
500-169238-6	S-2 (0-1)	Total/NA	Solid	6010B	503846
500-169238-7	S-3 (0-1)	Total/NA	Solid	6010B	503846
500-169238-8	S-4 (0-1)	Total/NA	Solid	6010B	503846
MB 500-503846/1-A	Method Blank	Total/NA	Solid	6010B	503846
LCS 500-503846/2-A	Lab Control Sample	Total/NA	Solid	6010B	503846

Analysis Batch: 504318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	6010B	504023
500-169238-2	P-2	Total/NA	Solid	6010B	504023
500-169238-3	P-3	Total/NA	Solid	6010B	504023
500-169238-4	P-4	Total/NA	Solid	6010B	504023
MB 500-504023/1-A	Method Blank	Total/NA	Solid	6010B	504023
LCS 500-504023/2-A	Lab Control Sample	Total/NA	Solid	6010B	504023

Analysis Batch: 504350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	7471B	504111
500-169238-2	P-2	Total/NA	Solid	7471B	504111
500-169238-3	P-3	Total/NA	Solid	7471B	504111
500-169238-4	P-4	Total/NA	Solid	7471B	504111
500-169238-5	S-1 (0-1)	Total/NA	Solid	7471B	504111
500-169238-6	S-2 (0-1)	Total/NA	Solid	7471B	504111
500-169238-7	S-3 (0-1)	Total/NA	Solid	7471B	504111
500-169238-8	S-4 (0-1)	Total/NA	Solid	7471B	504111
MB 500-504111/12-A	Method Blank	Total/NA	Solid	7471B	504111
LCS 500-504111/13-A	Lab Control Sample	Total/NA	Solid	7471B	504111

General Chemistry

Analysis Batch: 502990

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-5	S-1 (0-1)	Total/NA	Solid	Moisture	
500-169238-6	S-2 (0-1)	Total/NA	Solid	Moisture	
500-169238-7	S-3 (0-1)	Total/NA	Solid	Moisture	
500-169238-8	S-4 (0-1)	Total/NA	Solid	Moisture	

QC Association Summary

Client: TRC Environmental Corporation.
Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

General Chemistry

Analysis Batch: 503876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-1	P-1	Total/NA	Solid	Moisture	
500-169238-2	P-2	Total/NA	Solid	Moisture	
500-169238-3	P-3	Total/NA	Solid	Moisture	
500-169238-4	P-4	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-169238-1	P-1	119	115	101	103
500-169238-2	P-2	120	112	101	103
500-169238-3	P-3	121	112	101	102
500-169238-4	P-4	121	112	101	102
500-169238-5	S-1 (0-1)	99	104	96	106
500-169238-6	S-2 (0-1)	100	106	98	106
500-169238-7	S-3 (0-1)	102	107	97	105
500-169238-8	S-4 (0-1)	102	105	99	107
500-169238-8 MS	S-4 (0-1)	98	106	99	107
500-169238-8 MSD	S-4 (0-1)	99	106	100	106
500-169238-9	Trip Blank	102	106	98	106
LB3 500-502711/21-A	Method Blank	100	104	97	107
LCS 500-502711/22-A	Lab Control Sample	100	106	100	106
LCS 500-503031/4	Lab Control Sample	98	106	98	106
LCS 500-503262/4	Lab Control Sample	112	114	100	105
MB 500-503031/6	Method Blank	101	105	98	107
MB 500-503262/6	Method Blank	113	114	101	106

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-169238-1	P-1	64	54	180 X
500-169238-1 - DL	P-1	86	69	343 X
500-169238-2	P-2	76	73	213 X
500-169238-3	P-3	66	55	263 X
500-169238-4	P-4	54	53	218 X
500-169238-5	S-1 (0-1)	104	82	176 X
500-169238-6	S-2 (0-1)	82	70	199 X
500-169238-6 MS	S-2 (0-1)	73	71	186 X
500-169238-6 MSD	S-2 (0-1)	83	84	199 X
500-169238-7	S-3 (0-1)	94	92	145
500-169238-8	S-4 (0-1)	79	77	179 X
LCS 500-504178/2-A	Lab Control Sample	86	79	96
MB 500-504178/1-A	Method Blank	89	79	106

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: TRC Environmental Corporation. Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		DCBP1	TCX1
Lab Sample ID	Client Sample ID	(33-148)	(30-121)
500-169238-1	P-1	119	107
500-169238-2	P-2	119	91
500-169238-3	P-3	143	95
500-169238-4	P-4	103	68
LCS 500-503990/2-A	Lab Control Sample	101	91
MB 500-503990/1-A	Method Blank	97	91

Surrogate Legend

DCBP = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCBP2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-169238-1	P-1	109	126 X
500-169238-2	P-2	98	132 X
500-169238-3	P-3	83	103
500-169238-4	P-4	92	111
500-169238-5	S-1 (0-1)	83	98
500-169238-6	S-2 (0-1)	81	89
500-169238-7	S-3 (0-1)	71	101
500-169238-8	S-4 (0-1)	66	96
LCS 500-503990/3-A	Lab Control Sample	93	101
MB 500-503990/1-A	Method Blank	83	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCBP = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		C9
Lab Sample ID	Client Sample ID	(44-148)
500-169238-5	S-1 (0-1)	60
LCS 500-503521/2-A	Lab Control Sample	69
LCSD 500-503521/3-A	Lab Control Sample Dup	74
MB 500-503521/1-A	Method Blank	77

Surrogate Legend

C9 = n-Nonane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-502711/21-A
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502711

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
2-Butanone (MEK)	<110		250	110	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2-Dibromoethane	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Benzene	<7.3		13	7.3	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Bromobenzene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Bromochloromethane	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Bromodichloromethane	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Bromoform	<24		50	24	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Bromomethane	<40		150	40	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Chlorobenzene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Chloroethane	<25		50	25	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Chloroform	<19		100	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Chloromethane	<16		50	16	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Dibromochloromethane	<24		50	24	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Dibromomethane	<14		50	14	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Isopropyl ether	<14		50	14	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Isopropylbenzene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Methylene Chloride	<82		250	82	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Naphthalene	<17		50	17	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
n-Butylbenzene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-502711/21-A
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 502711

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Propylbenzene	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Styrene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Tetrachloroethene	<19		50	19	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Toluene	<7.4		13	7.4	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Vinyl chloride	<13		50	13	ug/Kg		08/31/19 20:00	09/04/19 11:57	50
Xylenes, Total	<11		25	11	ug/Kg		08/31/19 20:00	09/04/19 11:57	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*08/31/19 20:00*	*09/04/19 11:57*	*50*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*08/31/19 20:00*	*09/04/19 11:57*	*50*
Dibromofluoromethane	*97*		*75 - 120*	*08/31/19 20:00*	*09/04/19 11:57*	*50*
Toluene-d8 (Surr)	*107*		*75 - 120*	*08/31/19 20:00*	*09/04/19 11:57*	*50*

Lab Sample ID: LCS 500-502711/22-A
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	2750		ug/Kg		110	70 - 125
1,1,1-Trichloroethane	2500	2750		ug/Kg		110	70 - 125
1,1,2,2-Tetrachloroethane	2500	2650		ug/Kg		106	62 - 140
1,1,2-Trichloroethane	2500	2620		ug/Kg		105	71 - 130
1,1-Dichloroethane	2500	2660		ug/Kg		106	70 - 125
2-Butanone (MEK)	2500	1970		ug/Kg		79	46 - 144
1,1-Dichloropropene	2500	2780		ug/Kg		111	70 - 121
1,2,3-Trichlorobenzene	2500	2740		ug/Kg		110	51 - 145
1,2,3-Trichloropropane	2500	2720		ug/Kg		109	50 - 133
1,2,4-Trichlorobenzene	2500	2730		ug/Kg		109	57 - 137
1,1-Dichloroethene	2500	2520		ug/Kg		101	67 - 122
1,2,4-Trimethylbenzene	2500	3040		ug/Kg		122	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2610		ug/Kg		104	56 - 123
1,2-Dibromoethane	2500	2500		ug/Kg		100	70 - 125
1,2-Dichlorobenzene	2500	2810		ug/Kg		112	70 - 125
1,2-Dichloroethane	2500	2720		ug/Kg		109	68 - 127
1,2-Dichloropropane	2500	2610		ug/Kg		104	67 - 130
1,3,5-Trimethylbenzene	2500	3120	*	ug/Kg		125	70 - 123
1,3-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 125
1,3-Dichloropropane	2500	2630		ug/Kg		105	62 - 136
1,4-Dichlorobenzene	2500	2670		ug/Kg		107	70 - 120
2,2-Dichloropropane	2500	2510		ug/Kg		101	58 - 139
2-Chlorotoluene	2500	2990		ug/Kg		120	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-502711/22-A
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	2500	2870		ug/Kg		115	68 - 124
Benzene	2500	2680		ug/Kg		107	70 - 120
Bromobenzene	2500	2670		ug/Kg		107	70 - 122
Bromochloromethane	2500	2620		ug/Kg		105	65 - 122
Bromodichloromethane	2500	2600		ug/Kg		104	69 - 120
Bromoform	2500	2070		ug/Kg		83	56 - 132
Bromomethane	2500	2300		ug/Kg		92	40 - 152
Carbon tetrachloride	2500	2690		ug/Kg		108	59 - 133
Chlorobenzene	2500	2740		ug/Kg		110	70 - 120
Chloroethane	2500	2090		ug/Kg		83	48 - 136
Chloroform	2500	2750		ug/Kg		110	70 - 120
Chloromethane	2500	2020		ug/Kg		81	56 - 152
cis-1,2-Dichloroethene	2500	2750		ug/Kg		110	70 - 125
cis-1,3-Dichloropropene	2500	2600		ug/Kg		104	64 - 127
Dibromochloromethane	2500	2530		ug/Kg		101	68 - 125
Dibromomethane	2500	2540		ug/Kg		102	70 - 120
Dichlorodifluoromethane	2500	1620		ug/Kg		65	40 - 159
Ethylbenzene	2500	2780		ug/Kg		111	70 - 123
Hexachlorobutadiene	2500	2810		ug/Kg		112	51 - 150
Isopropylbenzene	2500	3120		ug/Kg		125	70 - 126
Methyl tert-butyl ether	2500	2480		ug/Kg		99	55 - 123
Methylene Chloride	2500	2560		ug/Kg		102	69 - 125
Naphthalene	2500	2740		ug/Kg		110	53 - 144
n-Butylbenzene	2500	3020		ug/Kg		121	68 - 125
N-Propylbenzene	2500	2960		ug/Kg		119	69 - 127
p-Isopropyltoluene	2500	3120		ug/Kg		125	70 - 125
sec-Butylbenzene	2500	3120	*	ug/Kg		125	70 - 123
Styrene	2500	2740		ug/Kg		110	70 - 120
tert-Butylbenzene	2500	3180	*	ug/Kg		127	70 - 121
Tetrachloroethene	2500	2710		ug/Kg		108	70 - 128
Toluene	2500	2800		ug/Kg		112	70 - 125
trans-1,2-Dichloroethene	2500	2640		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	2500	2440		ug/Kg		98	62 - 128
Trichloroethene	2500	2910		ug/Kg		116	70 - 125
Trichlorofluoromethane	2500	2650		ug/Kg		106	55 - 128
Vinyl chloride	2500	2350		ug/Kg		94	64 - 126
Xylenes, Total	5000	5510		ug/Kg		110	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-169238-8 MS
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: S-4 (0-1)
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<30		3290	3060		ug/Kg	☼	93	70 - 125
1,1,1-Trichloroethane	<25		3290	3170		ug/Kg	☼	96	70 - 125
1,1,2,2-Tetrachloroethane	<26		3290	2940		ug/Kg	☼	90	62 - 140
1,1,2-Trichloroethane	<23		3290	2960		ug/Kg	☼	90	71 - 130
1,1-Dichloroethane	<27		3290	3040		ug/Kg	☼	93	70 - 125
1,1-Dichloropropene	<20		3290	3200		ug/Kg	☼	97	70 - 121
1,2,3-Trichlorobenzene	<30		3290	2940		ug/Kg	☼	89	51 - 145
1,2,3-Trichloropropane	<27		3290	3170		ug/Kg	☼	96	50 - 133
1,2,4-Trichlorobenzene	<22		3290	2910		ug/Kg	☼	89	57 - 137
1,1-Dichloroethene	<26		3290	3040		ug/Kg	☼	93	67 - 122
1,2,4-Trimethylbenzene	<24		3290	3410		ug/Kg	☼	104	70 - 123
1,2-Dibromo-3-Chloropropane	<130		3290	2900		ug/Kg	☼	88	56 - 123
1,2-Dibromoethane	<25		3290	2840		ug/Kg	☼	86	70 - 125
1,2-Dichlorobenzene	<22		3290	3130		ug/Kg	☼	95	70 - 125
1,2-Dichloroethane	<26		3290	3080		ug/Kg	☼	94	68 - 127
1,2-Dichloropropane	<28		3290	2890		ug/Kg	☼	88	67 - 130
1,3,5-Trimethylbenzene	<25	*	3290	3530		ug/Kg	☼	107	70 - 123
1,3-Dichlorobenzene	<26		3290	3130		ug/Kg	☼	95	70 - 125
1,3-Dichloropropane	<24		3290	2960		ug/Kg	☼	90	62 - 136
1,4-Dichlorobenzene	<24		3290	3020		ug/Kg	☼	92	70 - 120
2,2-Dichloropropane	<29		3290	2840		ug/Kg	☼	86	58 - 139
2-Chlorotoluene	<21		3290	3350		ug/Kg	☼	102	70 - 125
4-Chlorotoluene	<23		3290	3280		ug/Kg	☼	100	68 - 124
Benzene	<9.6		3290	3080		ug/Kg	☼	94	70 - 120
Bromobenzene	<23		3290	3030		ug/Kg	☼	92	70 - 122
Bromochloromethane	<28		3290	2970		ug/Kg	☼	90	65 - 122
Bromodichloromethane	<24		3290	2930		ug/Kg	☼	89	69 - 120
Bromoform	<32		3290	2350		ug/Kg	☼	72	56 - 132
Bromomethane	<52		3290	2870		ug/Kg	☼	87	40 - 152
Carbon tetrachloride	<25		3290	3070		ug/Kg	☼	94	59 - 133
Chlorobenzene	<25		3290	3120		ug/Kg	☼	95	70 - 120
Chloroethane	<33		3290	2410		ug/Kg	☼	73	48 - 136
Chloroform	<24		3290	3080		ug/Kg	☼	94	70 - 120
Chloromethane	<21		3290	3060		ug/Kg	☼	93	56 - 152
cis-1,2-Dichloroethene	<27		3290	3120		ug/Kg	☼	95	70 - 125
cis-1,3-Dichloropropene	<27		3290	2950		ug/Kg	☼	90	64 - 127
Dibromochloromethane	<32		3290	2850		ug/Kg	☼	87	68 - 125
Dibromomethane	<18		3290	2880		ug/Kg	☼	88	70 - 120
Dichlorodifluoromethane	<44		3290	3510		ug/Kg	☼	107	40 - 159
Ethylbenzene	<12		3290	3140		ug/Kg	☼	96	70 - 123
Hexachlorobutadiene	<29		3290	3140		ug/Kg	☼	96	51 - 150
Isopropylbenzene	<25		3290	3530		ug/Kg	☼	107	70 - 126
Methyl tert-butyl ether	<26		3290	2740		ug/Kg	☼	83	55 - 123
Methylene Chloride	<110		3290	2920		ug/Kg	☼	89	69 - 125
Naphthalene	<22		3290	2970		ug/Kg	☼	90	53 - 144
n-Butylbenzene	<25		3290	3410		ug/Kg	☼	104	68 - 125
N-Propylbenzene	<27		3290	3380		ug/Kg	☼	103	69 - 127
p-Isopropyltoluene	<24		3290	3520		ug/Kg	☼	107	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-169238-8 MS
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: S-4 (0-1)
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	<26	*	3290	3520		ug/Kg	☼	107	70 - 123
Styrene	<25		3290	3110		ug/Kg	☼	95	70 - 120
tert-Butylbenzene	<26	*	3290	3590		ug/Kg	☼	109	70 - 121
Tetrachloroethene	<24		3290	3080		ug/Kg	☼	94	70 - 128
Toluene	<9.7		3290	3200		ug/Kg	☼	97	70 - 125
trans-1,2-Dichloroethene	<23		3290	3100		ug/Kg	☼	94	70 - 125
trans-1,3-Dichloropropene	<24		3290	2810		ug/Kg	☼	86	62 - 128
Trichloroethene	<11		3290	3310		ug/Kg	☼	101	70 - 125
Trichlorofluoromethane	<28		3290	3200		ug/Kg	☼	97	55 - 128
Vinyl chloride	<17		3290	3230		ug/Kg	☼	98	64 - 126
Xylenes, Total	<14		6570	6280		ug/Kg	☼	96	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane	*99*		*75 - 120*
Toluene-d8 (Surr)	*107*		*75 - 120*

Lab Sample ID: 500-169238-8 MSD
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: S-4 (0-1)
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<30		3290	3150		ug/Kg	☼	96	70 - 125	3	30
1,1,1-Trichloroethane	<25		3290	3300		ug/Kg	☼	101	70 - 125	4	30
1,1,2,2-Tetrachloroethane	<26		3290	3050		ug/Kg	☼	93	62 - 140	4	30
1,1,2-Trichloroethane	<23		3290	3090		ug/Kg	☼	94	71 - 130	4	30
1,1-Dichloroethane	<27		3290	3170		ug/Kg	☼	97	70 - 125	4	30
1,1-Dichloropropene	<20		3290	3340		ug/Kg	☼	102	70 - 121	4	30
1,2,3-Trichlorobenzene	<30		3290	3080		ug/Kg	☼	94	51 - 145	5	30
1,2,3-Trichloropropane	<27		3290	3240		ug/Kg	☼	99	50 - 133	2	30
1,2,4-Trichlorobenzene	<22		3290	3070		ug/Kg	☼	93	57 - 137	5	30
1,1-Dichloroethene	<26		3290	3140		ug/Kg	☼	96	67 - 122	3	30
1,2,4-Trimethylbenzene	<24		3290	3540		ug/Kg	☼	108	70 - 123	4	30
1,2-Dibromo-3-Chloropropane	<130		3290	3040		ug/Kg	☼	93	56 - 123	5	30
1,2-Dibromoethane	<25		3290	2940		ug/Kg	☼	89	70 - 125	4	30
1,2-Dichlorobenzene	<22		3290	3250		ug/Kg	☼	99	70 - 125	4	30
1,2-Dichloroethane	<26		3290	3180		ug/Kg	☼	97	68 - 127	3	30
1,2-Dichloropropane	<28		3290	3080		ug/Kg	☼	94	67 - 130	7	30
1,3,5-Trimethylbenzene	<25	*	3290	3640		ug/Kg	☼	111	70 - 123	3	30
1,3-Dichlorobenzene	<26		3290	3230		ug/Kg	☼	98	70 - 125	3	30
1,3-Dichloropropane	<24		3290	3030		ug/Kg	☼	92	62 - 136	2	30
1,4-Dichlorobenzene	<24		3290	3150		ug/Kg	☼	96	70 - 120	4	30
2,2-Dichloropropane	<29		3290	3040		ug/Kg	☼	92	58 - 139	7	30
2-Chlorotoluene	<21		3290	3490		ug/Kg	☼	106	70 - 125	4	30
4-Chlorotoluene	<23		3290	3380		ug/Kg	☼	103	68 - 124	3	30
Benzene	<9.6		3290	3210		ug/Kg	☼	98	70 - 120	4	30
Bromobenzene	<23		3290	3160		ug/Kg	☼	96	70 - 122	4	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-169238-8 MSD
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: S-4 (0-1)
Prep Type: Total/NA
Prep Batch: 502711

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	<28		3290	3120		ug/Kg	☼	95	65 - 122	5	30
Bromodichloromethane	<24		3290	3070		ug/Kg	☼	93	69 - 120	5	30
Bromoform	<32		3290	2420		ug/Kg	☼	74	56 - 132	3	30
Bromomethane	<52		3290	2980		ug/Kg	☼	91	40 - 152	4	30
Carbon tetrachloride	<25		3290	3180		ug/Kg	☼	97	59 - 133	4	30
Chlorobenzene	<25		3290	3210		ug/Kg	☼	98	70 - 120	3	30
Chloroethane	<33		3290	2550		ug/Kg	☼	78	48 - 136	6	30
Chloroform	<24		3290	3220		ug/Kg	☼	98	70 - 120	4	30
Chloromethane	<21		3290	3200		ug/Kg	☼	97	56 - 152	5	30
cis-1,2-Dichloroethene	<27		3290	3260		ug/Kg	☼	99	70 - 125	5	30
cis-1,3-Dichloropropene	<27		3290	3070		ug/Kg	☼	93	64 - 127	4	30
Dibromochloromethane	<32		3290	2950		ug/Kg	☼	90	68 - 125	3	30
Dibromomethane	<18		3290	2980		ug/Kg	☼	91	70 - 120	3	30
Dichlorodifluoromethane	<44		3290	3530		ug/Kg	☼	107	40 - 159	1	30
Ethylbenzene	<12		3290	3280		ug/Kg	☼	100	70 - 123	4	30
Hexachlorobutadiene	<29		3290	3260		ug/Kg	☼	99	51 - 150	4	30
Isopropylbenzene	<25		3290	3650		ug/Kg	☼	111	70 - 126	3	30
Methyl tert-butyl ether	<26		3290	2880		ug/Kg	☼	88	55 - 123	5	30
Methylene Chloride	<110		3290	3030		ug/Kg	☼	92	69 - 125	4	30
Naphthalene	<22		3290	3110		ug/Kg	☼	95	53 - 144	4	30
n-Butylbenzene	<25		3290	3500		ug/Kg	☼	106	68 - 125	3	30
N-Propylbenzene	<27		3290	3490		ug/Kg	☼	106	69 - 127	3	30
p-Isopropyltoluene	<24		3290	3650		ug/Kg	☼	111	70 - 125	4	30
sec-Butylbenzene	<26	*	3290	3620		ug/Kg	☼	110	70 - 123	3	30
Styrene	<25		3290	3220		ug/Kg	☼	98	70 - 120	3	30
tert-Butylbenzene	<26	*	3290	3720		ug/Kg	☼	113	70 - 121	3	30
Tetrachloroethene	<24		3290	3140		ug/Kg	☼	96	70 - 128	2	30
Toluene	<9.7		3290	3290		ug/Kg	☼	100	70 - 125	3	30
trans-1,2-Dichloroethene	<23		3290	3200		ug/Kg	☼	97	70 - 125	3	30
trans-1,3-Dichloropropene	<24		3290	2930		ug/Kg	☼	89	62 - 128	4	30
Trichloroethene	<11		3290	3430		ug/Kg	☼	104	70 - 125	4	30
Trichlorofluoromethane	<28		3290	3320		ug/Kg	☼	101	55 - 128	4	30
Vinyl chloride	<17		3290	3390		ug/Kg	☼	103	64 - 126	5	30
Xylenes, Total	<14		6570	6490		ug/Kg	☼	99	70 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-503031/6
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			09/04/19 11:05	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			09/04/19 11:05	1

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-503031/6
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			09/04/19 11:05	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			09/04/19 11:05	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			09/04/19 11:05	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			09/04/19 11:05	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			09/04/19 11:05	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			09/04/19 11:05	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			09/04/19 11:05	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			09/04/19 11:05	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			09/04/19 11:05	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			09/04/19 11:05	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			09/04/19 11:05	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			09/04/19 11:05	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			09/04/19 11:05	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			09/04/19 11:05	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			09/04/19 11:05	1
Benzene	<0.15		0.25	0.15	ug/Kg			09/04/19 11:05	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			09/04/19 11:05	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			09/04/19 11:05	1
Bromoform	<0.48		1.0	0.48	ug/Kg			09/04/19 11:05	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			09/04/19 11:05	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			09/04/19 11:05	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			09/04/19 11:05	1
Chloroform	<0.37		2.0	0.37	ug/Kg			09/04/19 11:05	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			09/04/19 11:05	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			09/04/19 11:05	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			09/04/19 11:05	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			09/04/19 11:05	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			09/04/19 11:05	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			09/04/19 11:05	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			09/04/19 11:05	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			09/04/19 11:05	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			09/04/19 11:05	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			09/04/19 11:05	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			09/04/19 11:05	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			09/04/19 11:05	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			09/04/19 11:05	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			09/04/19 11:05	1
Styrene	<0.39		1.0	0.39	ug/Kg			09/04/19 11:05	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-503031/6
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			09/04/19 11:05	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			09/04/19 11:05	1
Toluene	<0.15		0.25	0.15	ug/Kg			09/04/19 11:05	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			09/04/19 11:05	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			09/04/19 11:05	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			09/04/19 11:05	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			09/04/19 11:05	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			09/04/19 11:05	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			09/04/19 11:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*		*09/04/19 11:05*	*1*
4-Bromofluorobenzene (Surr)	*105*		*72 - 124*		*09/04/19 11:05*	*1*
Dibromofluoromethane	*98*		*75 - 120*		*09/04/19 11:05*	*1*
Toluene-d8 (Surr)	*107*		*75 - 120*		*09/04/19 11:05*	*1*

Lab Sample ID: LCS 500-503031/4
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	45.6		ug/Kg		91	70 - 125
1,1,1-Trichloroethane	50.0	49.3		ug/Kg		99	70 - 125
1,1,2,2-Tetrachloroethane	50.0	43.4		ug/Kg		87	62 - 140
1,1,2-Trichloroethane	50.0	43.8		ug/Kg		88	71 - 130
1,1-Dichloroethane	50.0	45.3		ug/Kg		91	70 - 125
1,1-Dichloropropene	50.0	50.2		ug/Kg		100	70 - 121
1,2,3-Trichlorobenzene	50.0	45.1		ug/Kg		90	51 - 145
1,2,3-Trichloropropane	50.0	45.8		ug/Kg		92	50 - 133
1,2,4-Trichlorobenzene	50.0	46.6		ug/Kg		93	57 - 137
1,1-Dichloroethene	50.0	47.0		ug/Kg		94	67 - 122
1,2,4-Trimethylbenzene	50.0	51.7		ug/Kg		103	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	42.5		ug/Kg		85	56 - 123
1,2-Dibromoethane	50.0	42.3		ug/Kg		85	70 - 125
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	70 - 125
1,2-Dichloroethane	50.0	45.6		ug/Kg		91	68 - 127
1,2-Dichloropropane	50.0	43.5		ug/Kg		87	67 - 130
1,3,5-Trimethylbenzene	50.0	53.6		ug/Kg		107	70 - 123
1,3-Dichlorobenzene	50.0	47.6		ug/Kg		95	70 - 125
1,3-Dichloropropane	50.0	44.3		ug/Kg		89	62 - 136
1,4-Dichlorobenzene	50.0	46.2		ug/Kg		92	70 - 120
2,2-Dichloropropane	50.0	44.4		ug/Kg		89	58 - 139
2-Chlorotoluene	50.0	51.4		ug/Kg		103	70 - 125
4-Chlorotoluene	50.0	50.5		ug/Kg		101	68 - 124
Benzene	50.0	46.1		ug/Kg		92	70 - 120
Bromobenzene	50.0	45.8		ug/Kg		92	70 - 122
Bromochloromethane	50.0	44.1		ug/Kg		88	65 - 122
Bromodichloromethane	50.0	44.2		ug/Kg		88	69 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-503031/4
Matrix: Solid
Analysis Batch: 503031

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromoform	50.0	35.8		ug/Kg		72	56 - 132
Bromomethane	50.0	45.3		ug/Kg		91	40 - 152
Carbon tetrachloride	50.0	48.2		ug/Kg		96	59 - 133
Chlorobenzene	50.0	47.3		ug/Kg		95	70 - 120
Chloroethane	50.0	51.3		ug/Kg		103	48 - 136
Chloroform	50.0	46.1		ug/Kg		92	70 - 120
Chloromethane	50.0	47.0		ug/Kg		94	56 - 152
cis-1,2-Dichloroethene	50.0	46.6		ug/Kg		93	70 - 125
cis-1,3-Dichloropropene	50.0	44.7		ug/Kg		89	64 - 127
Dibromochloromethane	50.0	43.2		ug/Kg		86	68 - 125
Dibromomethane	50.0	42.1		ug/Kg		84	70 - 120
Dichlorodifluoromethane	50.0	56.5		ug/Kg		113	40 - 159
Ethylbenzene	50.0	48.6		ug/Kg		97	70 - 123
Hexachlorobutadiene	50.0	47.8		ug/Kg		96	51 - 150
Isopropylbenzene	50.0	54.1		ug/Kg		108	70 - 126
Methyl tert-butyl ether	50.0	41.0		ug/Kg		82	55 - 123
Methylene Chloride	50.0	43.0		ug/Kg		86	69 - 125
Naphthalene	50.0	43.3		ug/Kg		87	53 - 144
n-Butylbenzene	50.0	54.0		ug/Kg		108	68 - 125
N-Propylbenzene	50.0	52.6		ug/Kg		105	69 - 127
p-Isopropyltoluene	50.0	54.6		ug/Kg		109	70 - 125
sec-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 123
Styrene	50.0	47.3		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	54.3		ug/Kg		109	70 - 121
Tetrachloroethene	50.0	49.0		ug/Kg		98	70 - 128
Toluene	50.0	48.4		ug/Kg		97	70 - 125
trans-1,2-Dichloroethene	50.0	46.3		ug/Kg		93	70 - 125
trans-1,3-Dichloropropene	50.0	42.8		ug/Kg		86	62 - 128
Trichloroethene	50.0	50.5		ug/Kg		101	70 - 125
Trichlorofluoromethane	50.0	52.4		ug/Kg		105	55 - 128
Vinyl chloride	50.0	51.0		ug/Kg		102	64 - 126
Xylenes, Total	100	95.1		ug/Kg		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*106*		*75 - 120*

Lab Sample ID: MB 500-503262/6
Matrix: Solid
Analysis Batch: 503262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<2.1		5.0	2.1	ug/Kg			09/05/19 11:15	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			09/05/19 11:15	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			09/05/19 11:15	1
Benzene	<0.15		0.25	0.15	ug/Kg			09/05/19 11:15	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-503262/6
Matrix: Solid
Analysis Batch: 503262

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			09/05/19 11:15	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			09/05/19 11:15	1
Chloroform	<0.37		2.0	0.37	ug/Kg			09/05/19 11:15	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			09/05/19 11:15	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			09/05/19 11:15	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			09/05/19 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*		*09/05/19 11:15*	*1*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*		*09/05/19 11:15*	*1*
Dibromofluoromethane	*101*		*75 - 120*		*09/05/19 11:15*	*1*
Toluene-d8 (Surr)	*106*		*75 - 120*		*09/05/19 11:15*	*1*

Lab Sample ID: LCS 500-503262/4
Matrix: Solid
Analysis Batch: 503262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	50.0	51.8		ug/Kg		104	46 - 144
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	67 - 122
1,2-Dichloroethane	50.0	54.7		ug/Kg		109	68 - 127
Benzene	50.0	45.6		ug/Kg		91	70 - 120
Carbon tetrachloride	50.0	52.9		ug/Kg		106	59 - 133
Chlorobenzene	50.0	47.6		ug/Kg		95	70 - 120
Chloroform	50.0	50.6		ug/Kg		101	70 - 120
Tetrachloroethene	50.0	49.4		ug/Kg		99	70 - 128
Trichloroethene	50.0	46.6		ug/Kg		93	70 - 125
Vinyl chloride	50.0	45.5		ug/Kg		91	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*105*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-504178/1-A
Matrix: Solid
Analysis Batch: 504265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Acenaphthene	<6.0		33	6.0	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Anthracene	<5.6		33	5.6	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		09/10/19 19:13	09/11/19 12:02	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-504178/1-A
Matrix: Solid
Analysis Batch: 504265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504178

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Chrysene	<9.1		33	9.1	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Fluoranthene	<6.2		33	6.2	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Fluorene	<4.7		33	4.7	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Naphthalene	<5.1		33	5.1	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Phenanthrene	<4.6		33	4.6	ug/Kg		09/10/19 19:13	09/11/19 12:02	1
Pyrene	<6.6		33	6.6	ug/Kg		09/10/19 19:13	09/11/19 12:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*89*		*43 - 145*	*09/10/19 19:13*	*09/11/19 12:02*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*09/10/19 19:13*	*09/11/19 12:02*	*1*
Terphenyl-d14 (Surr)	*106*		*42 - 157*	*09/10/19 19:13*	*09/11/19 12:02*	*1*

Lab Sample ID: LCS 500-504178/2-A
Matrix: Solid
Analysis Batch: 504265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504178

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1060		ug/Kg		79	68 - 111
2-Methylnaphthalene	1330	1140		ug/Kg		86	69 - 112
Acenaphthene	1330	1020		ug/Kg		76	65 - 124
Acenaphthylene	1330	1050		ug/Kg		79	68 - 120
Anthracene	1330	1130		ug/Kg		85	70 - 114
Benzo[a]anthracene	1330	1200		ug/Kg		90	67 - 122
Benzo[a]pyrene	1330	1210		ug/Kg		90	65 - 133
Benzo[b]fluoranthene	1330	1180		ug/Kg		88	69 - 129
Benzo[g,h,i]perylene	1330	1150		ug/Kg		86	72 - 131
Benzo[k]fluoranthene	1330	1100		ug/Kg		82	68 - 127
Chrysene	1330	1290		ug/Kg		97	63 - 120
Dibenz(a,h)anthracene	1330	1180		ug/Kg		89	64 - 131
Fluoranthene	1330	1170		ug/Kg		88	62 - 120
Fluorene	1330	1120		ug/Kg		84	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1190		ug/Kg		89	68 - 130
Naphthalene	1330	1090		ug/Kg		82	63 - 110
Phenanthrene	1330	1130		ug/Kg		85	62 - 120
Pyrene	1330	1190		ug/Kg		89	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*
Terphenyl-d14 (Surr)	*96*		*42 - 157*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-169238-6 MS
Matrix: Solid
Analysis Batch: 504539

Client Sample ID: S-2 (0-1)
Prep Type: Total/NA
Prep Batch: 504178

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<40		1370	934		ug/Kg	☼	68	68 - 111
2-Methylnaphthalene	<30		1370	1120		ug/Kg	☼	81	69 - 112
Acenaphthene	<30		1370	894		ug/Kg	☼	65	65 - 124
Acenaphthylene	25	J F1	1370	841	F1	ug/Kg	☼	59	68 - 120
Anthracene	74	J F1	1370	890	F1	ug/Kg	☼	59	70 - 114
Benzo[a]anthracene	670		1370	1880		ug/Kg	☼	88	67 - 122
Benzo[a]pyrene	870		1370	2070		ug/Kg	☼	87	65 - 133
Benzo[b]fluoranthene	1600	F1	1370	2880		ug/Kg	☼	93	69 - 129
Benzo[g,h,i]perylene	470	F1	1370	1150	F1	ug/Kg	☼	49	72 - 131
Benzo[k]fluoranthene	530	F1	1370	2410	F1	ug/Kg	☼	137	68 - 127
Chrysene	990		1370	2240		ug/Kg	☼	91	63 - 120
Dibenz(a,h)anthracene	120	J F1	1370	959	F1	ug/Kg	☼	61	64 - 131
Fluoranthene	1000		1370	1910		ug/Kg	☼	66	62 - 120
Fluorene	29	J	1370	1010		ug/Kg	☼	71	62 - 120
Indeno[1,2,3-cd]pyrene	490	F1	1370	1350	F1	ug/Kg	☼	62	68 - 130
Naphthalene	<26	F1	1370	766	F1	ug/Kg	☼	56	63 - 110
Phenanthrene	370	F1	1370	1210	F1	ug/Kg	☼	61	62 - 120
Pyrene	2000	F1	1370	4230	F1	ug/Kg	☼	165	61 - 128

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*73*		*43 - 145*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*
Terphenyl-d14 (Surr)	*186*	*X*	*42 - 157*

Lab Sample ID: 500-169238-6 MSD
Matrix: Solid
Analysis Batch: 504539

Client Sample ID: S-2 (0-1)
Prep Type: Total/NA
Prep Batch: 504178

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<40		1360	1090		ug/Kg	☼	80	68 - 111	15	30
2-Methylnaphthalene	<30		1360	1460		ug/Kg	☼	107	69 - 112	26	30
Acenaphthene	<30		1360	991		ug/Kg	☼	73	65 - 124	10	30
Acenaphthylene	25	J F1	1360	918	F1	ug/Kg	☼	66	68 - 120	9	30
Anthracene	74	J F1	1360	951	F1	ug/Kg	☼	65	70 - 114	7	30
Benzo[a]anthracene	670		1360	1930		ug/Kg	☼	93	67 - 122	2	30
Benzo[a]pyrene	870		1360	2280		ug/Kg	☼	103	65 - 133	9	30
Benzo[b]fluoranthene	1600	F1	1360	3700	F1	ug/Kg	☼	154	69 - 129	25	30
Benzo[g,h,i]perylene	470	F1	1360	1300	F1	ug/Kg	☼	61	72 - 131	12	30
Benzo[k]fluoranthene	530	F1	1360	2130		ug/Kg	☼	118	68 - 127	12	30
Chrysene	990		1360	2420		ug/Kg	☼	105	63 - 120	8	30
Dibenz(a,h)anthracene	120	J F1	1360	1190		ug/Kg	☼	79	64 - 131	22	30
Fluoranthene	1000		1360	2000		ug/Kg	☼	74	62 - 120	5	30
Fluorene	29	J	1360	1120		ug/Kg	☼	80	62 - 120	11	30
Indeno[1,2,3-cd]pyrene	490	F1	1360	1380	F1	ug/Kg	☼	65	68 - 130	2	30
Naphthalene	<26	F1	1360	907		ug/Kg	☼	67	63 - 110	17	30
Phenanthrene	370	F1	1360	1350		ug/Kg	☼	72	62 - 120	11	30
Pyrene	2000	F1	1360	4390	F1	ug/Kg	☼	179	61 - 128	4	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-169238-6 MSD
Matrix: Solid
Analysis Batch: 504539

Client Sample ID: S-2 (0-1)
Prep Type: Total/NA
Prep Batch: 504178

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	83		43 - 145
Nitrobenzene-d5 (Surr)	84		37 - 147
Terphenyl-d14 (Surr)	199	X	42 - 157

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 500-503990/1-A
Matrix: Solid
Analysis Batch: 504046

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	<3.3		6.7	3.3	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
Endrin	<0.23		1.7	0.23	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
gamma-BHC (Lindane)	<0.36		1.7	0.36	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
Heptachlor	<0.70		1.7	0.70	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
Heptachlor epoxide	<0.59		1.7	0.59	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
Methoxychlor	<0.32		8.3	0.32	ug/Kg		09/10/19 07:40	09/10/19 16:48	1
Toxaphene	<7.0		17	7.0	ug/Kg		09/10/19 07:40	09/10/19 16:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	97		33 - 148	09/10/19 07:40	09/10/19 16:48	1
Tetrachloro-m-xylene	91		30 - 121	09/10/19 07:40	09/10/19 16:48	1

Lab Sample ID: LCS 500-503990/2-A
Matrix: Solid
Analysis Batch: 504046

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Endrin	13.3	11.9		ug/Kg		89	43 - 144
gamma-BHC (Lindane)	13.3	11.4		ug/Kg		86	50 - 122
Heptachlor	13.3	11.6		ug/Kg		87	53 - 129
Heptachlor epoxide	13.3	11.7		ug/Kg		87	50 - 139
Methoxychlor	13.3	11.8		ug/Kg		89	45 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	101		33 - 148
Tetrachloro-m-xylene	91		30 - 121

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-503990/1-A
Matrix: Solid
Analysis Batch: 504087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
PCB-1221	<7.3		17	7.3	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
PCB-1232	<7.3		17	7.3	ug/Kg		09/10/19 07:40	09/10/19 17:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-503990/1-A
Matrix: Solid
Analysis Batch: 504087

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503990

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<5.5		17	5.5	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
PCB-1248	<6.6		17	6.6	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
PCB-1254	<3.6		17	3.6	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
PCB-1260	<8.2		17	8.2	ug/Kg		09/10/19 07:40	09/10/19 17:17	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		09/10/19 07:40	09/10/19 17:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*83*		*49 - 129*	*09/10/19 07:40*	*09/10/19 17:17*	*1*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*09/10/19 07:40*	*09/10/19 17:17*	*1*

Lab Sample ID: LCS 500-503990/3-A
Matrix: Solid
Analysis Batch: 504087

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503990

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	155		ug/Kg		93	57 - 120
PCB-1260	167	151		ug/Kg		90	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*93*		*49 - 129*
DCB Decachlorobiphenyl	*101*		*37 - 121*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-503521/1-A
Matrix: Solid
Analysis Batch: 503564

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		09/06/19 09:43	09/06/19 13:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*77*		*44 - 148*	*09/06/19 09:43*	*09/06/19 13:57*	*1*

Lab Sample ID: LCS 500-503521/2-A
Matrix: Solid
Analysis Batch: 503564

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	20.0	15.2		mg/Kg		76	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*69*		*44 - 148*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-503521/3-A
Matrix: Solid
Analysis Batch: 503564

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 503521

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	16.9		mg/Kg		84	70 - 120	11	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*74*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-503846/1-A
Matrix: Solid
Analysis Batch: 504115

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 503846

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Barium	<0.11		1.0	0.11	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Cadmium	0.0760	J	0.20	0.036	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Lead	<0.23		0.50	0.23	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/09/19 10:35	09/10/19 12:14	1
Silver	<0.13		0.50	0.13	mg/Kg		09/09/19 10:35	09/10/19 12:14	1

Lab Sample ID: LCS 500-503846/2-A
Matrix: Solid
Analysis Batch: 504115

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 503846

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			10.0	9.56		mg/Kg		96	80 - 120		
Barium			200	195		mg/Kg		97	80 - 120		
Cadmium			5.00	4.72		mg/Kg		94	80 - 120		
Chromium			20.0	19.6		mg/Kg		98	80 - 120		
Lead			10.0	9.31		mg/Kg		93	80 - 120		
Selenium			10.0	8.38		mg/Kg		84	80 - 120		
Silver			5.00	4.64		mg/Kg		93	80 - 120		

Lab Sample ID: MB 500-504023/1-A
Matrix: Solid
Analysis Batch: 504318

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504023

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Barium	<0.11		1.0	0.11	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Cadmium	0.0483	J	0.20	0.036	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Chromium	<0.50		1.0	0.50	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Copper	<0.28		1.0	0.28	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Lead	<0.23		0.50	0.23	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Nickel	<0.29		1.0	0.29	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Selenium	<0.59		1.0	0.59	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Silver	<0.13		0.50	0.13	mg/Kg		09/10/19 08:55	09/11/19 09:20	1
Zinc	<0.88		2.0	0.88	mg/Kg		09/10/19 08:55	09/11/19 09:20	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-504023/2-A
Matrix: Solid
Analysis Batch: 504318

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.52		mg/Kg		95	80 - 120
Barium	200	194		mg/Kg		97	80 - 120
Cadmium	5.00	4.68		mg/Kg		94	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	10.0	9.24		mg/Kg		92	80 - 120
Nickel	50.0	47.6		mg/Kg		95	80 - 120
Selenium	10.0	8.72		mg/Kg		87	80 - 120
Silver	5.00	4.60		mg/Kg		92	80 - 120
Zinc	50.0	46.5		mg/Kg		93	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-504111/12-A
Matrix: Solid
Analysis Batch: 504350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504111

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		09/10/19 15:00	09/11/19 13:35	1

Lab Sample ID: LCS 500-504111/13-A
Matrix: Solid
Analysis Batch: 504350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504111

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.171		mg/Kg		103	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: P-1
Date Collected: 08/28/19 09:15
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	503876	09/09/19 12:24	LWN	TAL CHI

Client Sample ID: P-1
Date Collected: 08/28/19 09:15
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-1
Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503262	09/05/19 15:07	PMF	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	504539	09/12/19 18:33	AJD	TAL CHI
Total/NA	Prep	3541	DL		504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D	DL	5	504713	09/13/19 16:20	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8081A		1	504046	09/10/19 19:33	PJ1	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 17:48	BJH	TAL CHI
Total/NA	Prep	3050B			504023	09/10/19 08:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504318	09/11/19 09:56	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:00	DAJ	TAL CHI

Client Sample ID: P-2
Date Collected: 08/28/19 09:35
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	503876	09/09/19 12:24	LWN	TAL CHI

Client Sample ID: P-2
Date Collected: 08/28/19 09:35
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-2
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503262	09/05/19 15:33	PMF	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		2	504713	09/13/19 14:24	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8081A		1	504046	09/10/19 19:54	PJ1	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 18:03	BJH	TAL CHI
Total/NA	Prep	3050B			504023	09/10/19 08:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504318	09/11/19 10:00	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: P-2
Date Collected: 08/28/19 09:35
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-2
Matrix: Solid
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:02	DAJ	TAL CHI

Client Sample ID: P-3
Date Collected: 08/28/19 09:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	503876	09/09/19 12:24	LWN	TAL CHI

Client Sample ID: P-3
Date Collected: 08/28/19 09:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-3
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 09:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503262	09/05/19 15:59	PMF	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	504539	09/12/19 19:22	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8081A		1	504046	09/10/19 20:14	PJ1	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 18:18	BJH	TAL CHI
Total/NA	Prep	3050B			504023	09/10/19 08:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504318	09/11/19 10:04	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:04	DAJ	TAL CHI

Client Sample ID: P-4
Date Collected: 08/28/19 10:10
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	503876	09/09/19 12:24	LWN	TAL CHI

Client Sample ID: P-4
Date Collected: 08/28/19 10:10
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-4
Matrix: Solid
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 10:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503262	09/05/19 16:25	PMF	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	504713	09/13/19 15:10	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8081A		1	504046	09/10/19 20:35	PJ1	TAL CHI

Client Sample ID: P-4

Lab Sample ID: 500-169238-4
Date Collected: 08/28/19 10:10
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 18:34	BJH	TAL CHI
Total/NA	Prep	3050B			504023	09/10/19 08:55	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504318	09/11/19 10:08	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:06	DAJ	TAL CHI

Client Sample ID: S-1 (0-1)

Lab Sample ID: 500-169238-5
Date Collected: 08/28/19 10:25
Matrix: Solid
Date Received: 08/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	502990	09/03/19 20:51	JMP	TAL CHI

Client Sample ID: S-1 (0-1)

Lab Sample ID: 500-169238-5
Date Collected: 08/28/19 10:25
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 10:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503031	09/04/19 15:51	JLC	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	504713	09/13/19 15:33	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 18:49	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			503521	09/06/19 09:43	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	503564	09/06/19 14:49	SS	TAL CHI
Total/NA	Prep	3050B			503846	09/09/19 10:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504115	09/10/19 13:01	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:08	DAJ	TAL CHI

Client Sample ID: S-2 (0-1)

Lab Sample ID: 500-169238-6
Date Collected: 08/28/19 10:40
Matrix: Solid
Date Received: 08/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	502990	09/03/19 20:51	JMP	TAL CHI

Client Sample ID: S-2 (0-1)

Lab Sample ID: 500-169238-6
Date Collected: 08/28/19 10:40
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 10:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503031	09/04/19 16:16	JLC	TAL CHI

Client Sample ID: S-2 (0-1)
Date Collected: 08/28/19 10:40
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-6
Matrix: Solid
Percent Solids: 96.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		5	504539	09/12/19 20:36	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 19:05	BJH	TAL CHI
Total/NA	Prep	3050B			503846	09/09/19 10:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504115	09/10/19 13:13	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:09	DAJ	TAL CHI

Client Sample ID: S-3 (0-1)
Date Collected: 08/28/19 10:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	502990	09/03/19 20:51	JMP	TAL CHI

Client Sample ID: S-3 (0-1)
Date Collected: 08/28/19 10:50
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-7
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 10:50	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503031	09/04/19 16:43	JLC	TAL CHI
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		2	504713	09/13/19 15:57	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 19:20	BJH	TAL CHI
Total/NA	Prep	3050B			503846	09/09/19 10:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504115	09/10/19 13:17	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:11	DAJ	TAL CHI

Client Sample ID: S-4 (0-1)
Date Collected: 08/28/19 11:05
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	502990	09/03/19 20:51	JMP	TAL CHI

Client Sample ID: S-4 (0-1)
Date Collected: 08/28/19 11:05
Date Received: 08/29/19 09:30

Lab Sample ID: 500-169238-8
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 11:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503031	09/04/19 17:08	JLC	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-1

Client Sample ID: S-4 (0-1)

Lab Sample ID: 500-169238-8
Date Collected: 08/28/19 11:05
Matrix: Solid
Date Received: 08/29/19 09:30
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			504178	09/10/19 19:13	JP1	TAL CHI
Total/NA	Analysis	8270D		1	504539	09/12/19 16:05	AJD	TAL CHI
Total/NA	Prep	3541			503990	09/10/19 07:40	DX	TAL CHI
Total/NA	Analysis	8082A		10	504087	09/10/19 19:36	BJH	TAL CHI
Total/NA	Prep	3050B			503846	09/09/19 10:35	BDE	TAL CHI
Total/NA	Analysis	6010B		1	504115	09/10/19 13:21	JEF	TAL CHI
Total/NA	Prep	7471B			504111	09/10/19 15:00	EEN	TAL CHI
Total/NA	Analysis	7471B		1	504350	09/11/19 14:17	DAJ	TAL CHI

Client Sample ID: Trip Blank

Lab Sample ID: 500-169238-9
Date Collected: 08/28/19 00:00
Matrix: Solid
Date Received: 08/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			502711	08/28/19 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	503031	09/04/19 17:34	JLC	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-169238-1
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Wes Braga	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.3
Client Contact: Mr. Bryan Bergmann	Phone:	E-Mail: sandie.fredrick@testamericainc.com		Page: Page ~~3 of 5~~ 1 of 1
Company: TRC Environmental Corporation.				Job #: 500-169238
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested:			
City: Brookfield	TAT Requested (days): standard TAT			
State, Zip: WI, 53045				
Phone: 608-572-3875	PO #: Purchase Order Requested			
Email: bbergmann@trccompanies.com	WO #:			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	Project #: 50010540			
Site: same	SSOW#:			

500-169238 COC

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	See Table 1 (attached)	VOCs	DRO	PAH/PCB/Metal	Total Number of containers	Special Instructions/Note:
	Preservation Code:												
1	P-1	8/28/19	9:15	G	Solid			X					
2	P-2		9:35		Solid			X					
3	P-3		9:50		Solid			X					
4	P-4		10:10		Solid			X					
5	S-1 (0-1)		10:25		Solid				X	X	X		
6	S-2 (0-1)		10:40		Solid				X		X		
7	S-3 (0-1)		10:50		Solid				X		X		
8	S-4 (0-1)		11:05		Solid				X		X		
9	Trip Blank				Solid								Added by TA
					Solid								
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Alia Enriquez	8/28/19 14:30	TRC	[signature]	8/29/19 0930	TA-CHRL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.5, 1.4 → 2.4

Table 1
Sediment Characterization for Disposal
I-43 Milwaukee River Bridge
WisDOT ID #1228-22-01

ANALYTE	WASTE CHARACTERIZATION[1]
PAHs (EPA 8270 MSSV)	
PAHs	X
PCBs (EPA 8082)	
PCBs	X
Metals (EPA 6010/Mercury EPA 7471)	
Arsenic	X
Barium	X
Cadmium	X
Chromium	X
Lead	X
Mercury	X
Selenium	X
Silver	X
Copper	X
Nickel	X
Zinc	X
VOCs (EPA 8260)	
Benzene	X
Carbon tetrachloride	X
Chlorobenzene	X
Chloroform	X
1,2-Dichloroethane	X
1,1-Dichloroethylene	X
Methyl-ethyl-ketone	X
Tetrachloroethene	X
Trichlroethylene	X
Vinyl chloride	X
Pesticides/Herbicides (EPA 8081)	
Chlordane	X
Endrin	X
Heptachlor	X
Lindane	X
Methoxychlor	X
Toxaphene	X

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-169238-1

Login Number: 169238 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-169238-2
Client Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
11/5/2019 11:20:30 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-2

Job ID: 500-169238-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-169238-2

Comments
No additional comments.

Receipt
The samples were received on 8/29/2019 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.4º C and 2.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-2

Client Sample ID: P-2 — Lab Sample ID: 500-169238-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0087	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: S-4 (0-1) — Lab Sample ID: 500-169238-8

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-169238-2	P-2	Solid	08/28/19 09:35	08/29/19 09:30	
500-169238-8	S-4 (0-1)	Solid	08/28/19 11:05	08/29/19 09:30	

Client Sample Results

Client: TRC Environmental Corporation.
Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Client Sample ID: P-2
Lab Sample ID: 500-169238-2
Date Collected: 08/28/19 09:35
Matrix: Solid
Date Received: 08/29/19 09:30

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.0087**	**J**	0.050	0.0075	mg/L		11/01/19 15:45	11/05/19 02:33	1

Client Sample ID: S-4 (0-1)
Lab Sample ID: 500-169238-8
Date Collected: 08/28/19 11:05
Matrix: Solid
Date Received: 08/29/19 09:30

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		11/01/19 15:45	11/05/19 02:37	1

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation. Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Metals

Leach Batch: 512951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-2	P-2	TCLP	Solid	1311	
500-169238-8	S-4 (0-1)	TCLP	Solid	1311	
LB 500-512951/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 513182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-2	P-2	TCLP	Solid	3010A	512951
500-169238-8	S-4 (0-1)	TCLP	Solid	3010A	512951
LB 500-512951/1-B	Method Blank	TCLP	Solid	3010A	512951
LCS 500-513182/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 513587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-169238-2	P-2	TCLP	Solid	6010B	513182
500-169238-8	S-4 (0-1)	TCLP	Solid	6010B	513182
LB 500-512951/1-B	Method Blank	TCLP	Solid	6010B	513182
LCS 500-513182/2-A	Lab Control Sample	Total/NA	Solid	6010B	513182

Client: TRC Environmental Corporation.
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Job ID: 500-169238-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-513182/2-A
Matrix: Solid
Analysis Batch: 513587

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 513182

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.0975		mg/L		97	80 - 120		

Lab Sample ID: LB 500-512951/1-B
Matrix: Solid
Analysis Batch: 513587

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 513182

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		11/01/19 15:45	11/05/19 01:31	1

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Client Sample ID: P-2
Lab Sample ID: 500-169238-2
Date Collected: 08/28/19 09:35
Matrix: Solid
Date Received: 08/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			512951	10/31/19 12:15	GCA	TAL CHI
TCLP	Prep	3010A			513182	11/01/19 15:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	513587	11/05/19 02:33	EEN	TAL CHI

Client Sample ID: S-4 (0-1)
Lab Sample ID: 500-169238-8
Date Collected: 08/28/19 11:05
Matrix: Solid
Date Received: 08/29/19 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			512951	10/31/19 12:15	GCA	TAL CHI
TCLP	Prep	3010A			513182	11/01/19 15:45	BDE	TAL CHI
TCLP	Analysis	6010B		1	513587	11/05/19 02:37	EEN	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-169238-2
Project/Site: I-43 Ph 2.5 Soil/Sediment 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Wes Braga	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-74088-34515.3
Client Contact: Mr. Bryan Bergmann	Phone:	E-Mail: sandie.fredrick@testamericainc.com		Page: Page ~~3 of 5~~ 1 of 1
Company: TRC Environmental Corporation.				Job #: 500-169238
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Brookfield	TAT Requested (days): standard TAT			A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)
State, Zip: WI, 53045				Other:
Phone: 608-572-3875	PO #: Purchase Order Requested			
Email: bbergmann@trccompanies.com	WO #:			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	Project #: 50010540			
Site: same	SSOW#:			

500-169238 COC

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	See Table 1 (attached)	VOCs	DRO	PAH/PCB/Metal	Total Number of containers	Special Instructions/Note:
	Preservation Code:												
1	P-1	8/28/19	9:15	G	Solid			X					
2	P-2		9:35		Solid			X					
3	P-3		9:50		Solid			X					
4	P-4		10:10		Solid			X					
5	S-1 (0-1)		10:25		Solid				X	X	X		
6	S-2 (0-1)		10:40		Solid				X		X		
7	S-3 (0-1)		10:50		Solid				X		X		
8	S-4 (0-1)		11:05		Solid				X		X		
9	Trip Blank				Solid								Added by TA
					Solid								
					Solid								

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enriquez	8/28/19 14:30	TRC	[signature]	8/29/19 0930	TA-CHRL
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 2.5, 1.4 → 2.4

Table 1
Sediment Characterization for Disposal
I-43 Milwaukee River Bridge
WisDOT ID #1228-22-01

ANALYTE	WASTE CHARACTERIZATION[1]
PAHs (EPA 8270 MSSV)	
PAHs	X
PCBs (EPA 8082)	
PCBs	X
Metals (EPA 6010/Mercury EPA 7471)	
Arsenic	X
Barium	X
Cadmium	X
Chromium	X
Lead	X
Mercury	X
Selenium	X
Silver	X
Copper	X
Nickel	X
Zinc	X
VOCs (EPA 8260)	
Benzene	X
Carbon tetrachloride	X
Chlorobenzene	X
Chloroform	X
1,2-Dichloroethane	X
1,1-Dichloroethylene	X
Methyl-ethyl-ketone	X
Tetrachloroethene	X
Trichlroethylene	X
Vinyl chloride	X
Pesticides/Herbicides (EPA 8081)	
Chlordane	X
Endrin	X
Heptachlor	X
Lindane	X
Methoxychlor	X
Toxaphene	X

Hargraves, Therese

From: O'Connell, Theodore <TOConnell@trccompanies.com>
Sent: Thursday, October 24, 2019 9:49 AM
To: Hargraves, Therese
Subject: RE: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

-External Email-

Yes please.

From: Hargraves, Therese <Therese.Hargraves@testamericainc.com>
Sent: Thursday, October 24, 2019 8:47 AM
To: O'Connell, Theodore <TOConnell@trccompanies.com>
Subject: RE: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

The lab has confirmed we have these samples, and there is enough to run TCLP lead on both.

Do you want me to login for standard TAT?

Therese Hargraves

Phone: 708-534-5200
Mobile: 708-793-3461

E-mail: therese.hargraves@testamericainc.com

From: O'Connell, Theodore [mailto:TOConnell@trccompanies.com]
Sent: Wednesday, October 23, 2019 10:14 AM
To: Hargraves, Therese
Subject: RE: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

-External Email-

TCLP lead for sample P-2 and S-4

From: Hargraves, Therese <Therese.Hargraves@testamericainc.com>
Sent: Wednesday, October 23, 2019 9:58 AM
To: O'Connell, Theodore <TOConnell@trccompanies.com>
Subject: RE: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

We dispose of samples 31 days after the job was reported. This job was reported 9/15/19.

I will check to see if we still have any sample.

What tests are you hoping to run? There would probably be hold time concerns for samples collected in August.

Therese Hargraves

Phone: 708-534-5200
Mobile: 708-793-3461

E-mail: therese.hargraves@testamericainc.com

From: O'Connell, Theodore [mailto:TOConnell@trccompanies.com]
Sent: Wednesday, October 23, 2019 9:52 AM
To: Hargraves, Therese
Subject: FW: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

-External Email-

Therese,

I was wondering if the lab still has soil from this run?

Thanks

Ted

Ted O'Connell
Project Manager

TRC

708 Heartland Trail, Suite 3000, Madison, WI 53717
T 608.826.3648 | **F** 608.826.3941 | **C** 608.630.6710
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Fredrick, Sandie <Sandra.Fredrick@testamericainc.com>
Sent: Wednesday, October 23, 2019 9:50 AM
To: O'Connell, Theodore <TOConnell@trccompanies.com>
Subject: [EXTERNAL] Automatic reply: Eurofins TestAmerica EDD and report files from 500-169238-1 I-43 Ph 2.5 Soil/Sediment 341633

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello,
I am out of the office Wednesday, October 23rd, returning Monday, October 28th. Please call 708-534-5200 or email Therese Hargraves at with anything urgent. I will tie up all other inquiries when I return Monday morning.

Thanks so much - have a great weekend!
Sandie

Eurofins TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
sandie.fredrick@testamericainc.com
920-261-1660

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-169238-2

Login Number: 169238
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5,2.4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Received Trip Blank(s) not listed on COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-174375-1
Client Project/Site: WisDOT 1-43 Ph.2.5 - 341633

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
12/17/2019 6:55:54 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-174375-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-174375-1

Comments
No additional comments.

Receipt
The samples were received on 12/3/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

GC/MS VOA
Method 8260B: The extraction LCS associated with preparation batch 518521 had Bromochloromethane, Dibromomethane and Trichloroethene recoveries above control limits. The instrument LCS associated with analytical batch 518602 have all recoveries were within limits. These analytes were non-detect in the samples; therefore re-analysis was not performed. The data have been reported and qualified.
S-1R (2-4) (500-174375-1), S-2R (1"-20") (500-174375-2), S-5 (0-1) (500-174375-3), S-5 (2-4) (500-174375-4), S-6 (0-1) (500-174375-5), S-6 (2-4) (500-174375-6), S-7 (0-1) (500-174375-7), S-7 (2-4) (500-174375-8), (LCS 500-518521/20-A), (LCS 500-518602/5), (500-174375-A-8-A MS) and (500-174375-A-8-A MSD)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
Method WI-GRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the Gasoline Range Organics (GRO) mix (i.e., Naphthalene): S-6 (2-4) (500-174375-6) and S-7 (2-4) (500-174375-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-1R (2-4)

Lab Sample ID: 500-174375-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	11	J	39	5.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	15	J	39	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	65		39	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	69		39	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	100		39	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	48		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	38	J	39	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	87		39	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	13	J	39	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120		39	7.2	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	52		39	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	53		39	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		39	7.7	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.7		1.2	0.39	mg/Kg	1	☼	6010B	Total/NA
Barium	50	B	1.2	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.23	0.041	mg/Kg	1	☼	6010B	Total/NA
Chromium	20		1.2	0.57	mg/Kg	1	☼	6010B	Total/NA
Lead	11	B	0.58	0.27	mg/Kg	1	☼	6010B	Total/NA
Silver	1.4		0.58	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.063		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-2R (1"-20")

Lab Sample ID: 500-174375-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	7.2	J	34	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	8.8	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	13	J	34	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	18	J	34	9.4	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	9.7	J	34	6.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	6.7	J	34	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	13	J	34	6.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.1		0.97	0.33	mg/Kg	1	☼	6010B	Total/NA
Barium	8.9	B	0.97	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.066	J B	0.19	0.035	mg/Kg	1	☼	6010B	Total/NA
Chromium	5.6		0.97	0.48	mg/Kg	1	☼	6010B	Total/NA
Lead	6.0	B	0.49	0.22	mg/Kg	1	☼	6010B	Total/NA
Silver	0.63		0.49	0.13	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.013	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-5 (0-1)

Lab Sample ID: 500-174375-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	19		19	14	ug/Kg	50	☼	8260B	Total/NA
Toluene	84		19	11	ug/Kg	50	☼	8260B	Total/NA
2-Methylnaphthalene	7.8	J	80	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	29	J	40	7.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	35	J	40	5.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	88		40	6.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	480		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	580		40	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	890		40	8.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	380		40	13	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-5 (0-1) (Continued)

Lab Sample ID: 500-174375-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[k]fluoranthene	240		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	680		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	100		40	7.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	960		40	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	28	J	40	5.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	360		40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	13	J	40	6.1	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	450		40	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	860		40	7.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	54	B	1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.46	B	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.1	0.54	mg/Kg	1	☼	6010B	Total/NA
Lead	130	B	0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.83	J	1.1	0.64	mg/Kg	1	☼	6010B	Total/NA
Silver	1.4		0.54	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.074		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-5 (2-4)

Lab Sample ID: 500-174375-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	22	J	37	4.9	ug/Kg	1	☼	8270D	Total/NA
Anthracene	30	J	37	6.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	190		37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	190		37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		37	8.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	99		37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	210		37	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	37		37	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	330		37	6.9	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.8	J	37	5.3	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	97		37	9.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	130		37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	420		37	7.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.0		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	27	B	1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.16	J B	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	12		1.1	0.54	mg/Kg	1	☼	6010B	Total/NA
Lead	7.5	B	0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Silver	1.0		0.55	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.061		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-6 (0-1)

Lab Sample ID: 500-174375-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Methylnaphthalene	8.2	J	85	7.7	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	19	J	42	7.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	21	J	42	5.5	ug/Kg	1	☼	8270D	Total/NA
Anthracene	47		42	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	290		42	5.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	380		42	8.1	ug/Kg	1	☼	8270D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-6 (0-1) (Continued)

Lab Sample ID: 500-174375-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[b]fluoranthene	570		42	9.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	250		42	14	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	180		42	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	420		42	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	49		42	8.1	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	710		42	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	15	J	42	5.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	220		42	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	7.5	J	42	6.5	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	240		42	5.9	ug/Kg	1	☼	8270D	Total/NA
Pyrene	560		42	8.3	ug/Kg	1	☼	8270D	Total/NA
Arsenic	3.5		1.2	0.41	mg/Kg	1	☼	6010B	Total/NA
Barium	71	B	1.2	0.14	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.63	B	0.24	0.043	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.2	0.59	mg/Kg	1	☼	6010B	Total/NA
Lead	150	B	0.60	0.28	mg/Kg	1	☼	6010B	Total/NA
Silver	2.1		0.60	0.15	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.062		0.020	0.0068	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-6 (2-4)

Lab Sample ID: 500-174375-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	14	J	36	4.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	130		36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	79		36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	81		36	7.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	86		36	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	55		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	49		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	97		36	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	120		36	6.8	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.4	J	36	5.2	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	52		36	9.5	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	5.7	J	36	5.6	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	38		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	120		36	7.3	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	1400	J	1900	630	ug/Kg	50	☼	WI-GRO	Total/NA
Arsenic	2.7		0.94	0.32	mg/Kg	1	☼	6010B	Total/NA
Barium	34	B	0.94	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.26	B	0.19	0.034	mg/Kg	1	☼	6010B	Total/NA
Chromium	11		0.94	0.47	mg/Kg	1	☼	6010B	Total/NA
Lead	12	B	0.47	0.22	mg/Kg	1	☼	6010B	Total/NA
Silver	1.2		0.47	0.12	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.080		0.018	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-7 (0-1)

Lab Sample ID: 500-174375-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	30	J	55	20	ug/Kg	50	☼	8260B	Total/NA
Ethylbenzene	38		14	10	ug/Kg	50	☼	8260B	Total/NA
Toluene	180		14	8.2	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-7 (0-1) (Continued)

Lab Sample ID: 500-174375-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	170		28	12	ug/Kg	50	☼	8260B	Total/NA
Acenaphthene	8.4	J	34	6.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	15	J	34	4.6	ug/Kg	1	☼	8270D	Total/NA
Anthracene	29	J	34	5.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	100		34	4.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110		34	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	170		34	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	120		34	11	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	68		34	10	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		34	9.4	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	28	J	34	6.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	210		34	6.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	34	4.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	93		34	9.0	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	6.3	J	34	5.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	110		34	4.8	ug/Kg	1	☼	8270D	Total/NA
Pyrene	160		34	6.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	2.8		0.91	0.31	mg/Kg	1	☼	6010B	Total/NA
Barium	22	B	0.91	0.10	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.27	B	0.18	0.033	mg/Kg	1	☼	6010B	Total/NA
Chromium	9.5		0.91	0.45	mg/Kg	1	☼	6010B	Total/NA
Lead	28	B	0.45	0.21	mg/Kg	1	☼	6010B	Total/NA
Silver	1.0		0.45	0.12	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.030		0.016	0.0054	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: S-7 (2-4)

Lab Sample ID: 500-174375-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	7.6	J	37	6.8	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	15	J	37	5.0	ug/Kg	1	☼	8270D	Total/NA
Anthracene	27	J	37	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	140		37	5.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	160		37	7.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	200		37	8.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	110		37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	140		37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	170		37	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	20	J	37	7.3	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	270		37	7.0	ug/Kg	1	☼	8270D	Total/NA
Fluorene	10	J	37	5.3	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	100		37	9.8	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	9.0	J	37	5.8	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	120		37	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	240		37	7.5	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	780	J	1800	600	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	2.7	J	4.6	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	2.3		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	41	B	1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.30	B	0.21	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	18		1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Lead	14	B	0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: S-7 (2-4) (Continued)

Lab Sample ID: 500-174375-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Silver	1.4		0.53	0.14	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.074		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-174375-1	S-1R (2-4)	Solid	11/27/19 10:15	12/03/19 09:45	
500-174375-2	S-2R (1"-20")	Solid	11/27/19 10:45	12/03/19 09:45	
500-174375-3	S-5 (0-1)	Solid	11/27/19 09:35	12/03/19 09:45	
500-174375-4	S-5 (2-4)	Solid	11/27/19 09:40	12/03/19 09:45	
500-174375-5	S-6 (0-1)	Solid	11/27/19 09:55	12/03/19 09:45	
500-174375-6	S-6 (2-4)	Solid	11/27/19 10:00	12/03/19 09:45	
500-174375-7	S-7 (0-1)	Solid	11/27/19 10:25	12/03/19 09:45	
500-174375-8	S-7 (2-4)	Solid	11/27/19 10:30	12/03/19 09:45	

Client Sample ID: S-1R (2-4)

Date Collected: 11/27/19 10:15
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-1

Matrix: Solid
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2,3-Trichloropropane	<28		140	28	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2-Dibromo-3-Chloropropane	<140		340	140	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Benzene	<10		17	10	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Bromobenzene	<24		68	24	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Bromochloromethane	<29	*	68	29	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Bromoform	<33		68	33	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Bromomethane	<54		200	54	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Chlorobenzene	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Chloroethane	<34		68	34	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Chloroform	<25		140	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Chloromethane	<22		68	22	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Dibromomethane	<18	*	68	18	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Dichlorodifluoromethane	<46		200	46	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Ethylbenzene	<12		17	12	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Isopropyl ether	<19		68	19	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Methylene Chloride	<110		340	110	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Naphthalene	<23		68	23	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50

Client Sample ID: S-1R (2-4)

Date Collected: 11/27/19 10:15
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-1

Matrix: Solid
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Styrene	<26		68	26	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Toluene	<10		17	10	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Trichloroethene	<11	*	34	11	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Vinyl chloride	<18		68	18	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50
Xylenes, Total	<15		34	15	ug/Kg	☼	11/27/19 10:15	12/09/19 17:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*11/27/19 10:15*	*12/09/19 17:22*	*50*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*11/27/19 10:15*	*12/09/19 17:22*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*11/27/19 10:15*	*12/09/19 17:22*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*11/27/19 10:15*	*12/09/19 17:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.5		78	9.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
2-Methylnaphthalene	<7.1	F1	78	7.1	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Acenaphthene	<7.0		39	7.0	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Acenaphthylene	**11**	**J**	39	5.1	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Anthracene	**15**	**J**	39	6.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Benzo[a]anthracene	**65**		39	5.2	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Benzo[a]pyrene	**69**		39	7.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Benzo[b]fluoranthene	**100**		39	8.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Benzo[g,h,i]perylene	**48**		39	13	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Benzo[k]fluoranthene	**38**	**J**	39	11	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Chrysene	**87**		39	11	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Dibenz(a,h)anthracene	**13**	**J**	39	7.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Fluoranthene	**120**		39	7.2	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Indeno[1,2,3-cd]pyrene	**52**		39	10	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Naphthalene	<6.0		39	6.0	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Phenanthrene	**53**		39	5.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1
Pyrene	**120**		39	7.7	ug/Kg	☼	12/11/19 07:46	12/11/19 20:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*103*		*43 - 145*	*12/11/19 07:46*	*12/11/19 20:16*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*12/11/19 07:46*	*12/11/19 20:16*	*1*
Terphenyl-d14 (Surr)	*101*		*42 - 157*	*12/11/19 07:46*	*12/11/19 20:16*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		20	6.9	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
PCB-1221	<8.6		20	8.6	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
PCB-1232	<8.5		20	8.5	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
PCB-1242	<6.4		20	6.4	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1

Client Sample ID: S-1R (2-4)

Date Collected: 11/27/19 10:15
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-1
Matrix: Solid
Percent Solids: 85.0

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<7.7		20	7.7	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
PCB-1254	<4.2		20	4.2	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
PCB-1260	<9.6		20	9.6	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1
Polychlorinated biphenyls, Total	<3.8		20	3.8	ug/Kg	☼	12/10/19 17:14	12/11/19 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*106*		*49 - 129*	*12/10/19 17:14*	*12/11/19 10:02*	*1*
DCB Decachlorobiphenyl	*96*		*37 - 121*	*12/10/19 17:14*	*12/11/19 10:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.7**		1.2	0.39	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1
Barium	**50**	**B**	1.2	0.13	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1
Cadmium	**0.26**	**B**	0.23	0.041	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1
Chromium	**20**		1.2	0.57	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1
Lead	**11**	**B**	0.58	0.27	mg/Kg	☼	12/06/19 17:30	12/11/19 17:00	1
Selenium	<0.68		1.2	0.68	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1
Silver	**1.4**		0.58	0.15	mg/Kg	☼	12/06/19 17:30	12/11/19 06:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.063**		0.019	0.0064	mg/Kg	☼	12/09/19 15:35	12/10/19 10:04	1

Client Sample ID: S-2R (1"-20")

Date Collected: 11/27/19 10:45
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-2
Matrix: Solid
Percent Solids: 93.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		57	26	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1,1-Trichloroethane	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1,2,2-Tetrachloroethane	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1,2-Trichloroethane	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1-Dichloroethane	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1-Dichloroethene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,1-Dichloropropene	<17		57	17	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2,3-Trichlorobenzene	<26		57	26	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2,4-Trichlorobenzene	<19		57	19	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2,4-Trimethylbenzene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2-Dibromoethane	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2-Dichlorobenzene	<19		57	19	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2-Dichloroethane	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,2-Dichloropropane	<24		57	24	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,3,5-Trimethylbenzene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,3-Dichlorobenzene	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,3-Dichloropropane	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
1,4-Dichlorobenzene	<21		57	21	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
2,2-Dichloropropane	<25		57	25	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
2-Chlorotoluene	<18		57	18	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50

Client Sample ID: S-2R (1"-20")
Date Collected: 11/27/19 10:45
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-2
Matrix: Solid
Percent Solids: 93.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Benzene	<8.3		14	8.3	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Bromobenzene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Bromochloromethane	<24	*	57	24	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Bromodichloromethane	<21		57	21	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Bromoform	<27		57	27	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Bromomethane	<45		170	45	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Carbon tetrachloride	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Chlorobenzene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Chloroethane	<29		57	29	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Chloroform	<21		110	21	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Chloromethane	<18		57	18	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
cis-1,2-Dichloroethene	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
cis-1,3-Dichloropropene	<24		57	24	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Dibromochloromethane	<28		57	28	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Dibromomethane	<15	*	57	15	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Dichlorodifluoromethane	<38		170	38	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Ethylbenzene	<10		14	10	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Hexachlorobutadiene	<25		57	25	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Isopropyl ether	<16		57	16	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Isopropylbenzene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Methyl tert-butyl ether	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Methylene Chloride	<92		280	92	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Naphthalene	<19		57	19	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
n-Butylbenzene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
N-Propylbenzene	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
p-Isopropyltoluene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
sec-Butylbenzene	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Styrene	<22		57	22	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
tert-Butylbenzene	<23		57	23	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Tetrachloroethene	<21		57	21	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Toluene	<8.3		14	8.3	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
trans-1,2-Dichloroethene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
trans-1,3-Dichloropropene	<20		57	20	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Trichloroethene	<9.3	*	28	9.3	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Trichlorofluoromethane	<24		57	24	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Vinyl chloride	<15		57	15	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50
Xylenes, Total	<12		28	12	ug/Kg	☼	11/27/19 10:45	12/09/19 17:48	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*	*11/27/19 10:45*	*12/09/19 17:48*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*11/27/19 10:45*	*12/09/19 17:48*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*11/27/19 10:45*	*12/09/19 17:48*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*11/27/19 10:45*	*12/09/19 17:48*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.4		70	8.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
2-Methylnaphthalene	<6.4		70	6.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Acenaphthene	<6.2		34	6.2	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1

Client Sample ID: S-2R (1"-20")

Date Collected: 11/27/19 10:45
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-2

Matrix: Solid
Percent Solids: 93.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	<4.6		34	4.6	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Anthracene	<5.8		34	5.8	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Benzo[a]anthracene	**7.2**	**J**	34	4.7	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Benzo[a]pyrene	**8.8**	**J**	34	6.7	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Benzo[b]fluoranthene	<7.5		34	7.5	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Benzo[g,h,i]perylene	<11		34	11	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Benzo[k]fluoranthene	**13**	**J**	34	10	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Chrysene	**18**	**J**	34	9.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Dibenz(a,h)anthracene	<6.7		34	6.7	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Fluoranthene	**9.7**	**J**	34	6.4	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Fluorene	<4.9		34	4.9	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Indeno[1,2,3-cd]pyrene	<9.0		34	9.0	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Naphthalene	<5.3		34	5.3	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Phenanthrene	**6.7**	**J**	34	4.8	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1
Pyrene	**13**	**J**	34	6.9	ug/Kg	☼	12/11/19 07:46	12/11/19 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*109*		*43 - 145*	*12/11/19 07:46*	*12/11/19 20:40*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*12/11/19 07:46*	*12/11/19 20:40*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*12/11/19 07:46*	*12/11/19 20:40*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1221	<7.8		18	7.8	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1254	<3.8		18	3.8	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
PCB-1260	<8.7		18	8.7	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1
Polychlorinated biphenyls, Total	<3.4		18	3.4	ug/Kg	☼	12/10/19 17:14	12/11/19 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*49 - 129*	*12/10/19 17:14*	*12/11/19 11:41*	*1*
DCB Decachlorobiphenyl	*80*		*37 - 121*	*12/10/19 17:14*	*12/11/19 11:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.1**		0.97	0.33	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1
Barium	**8.9**	**B**	0.97	0.11	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1
Cadmium	**0.066**	**J B**	0.19	0.035	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1
Chromium	**5.6**		0.97	0.48	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1
Lead	**6.0**	**B**	0.49	0.22	mg/Kg	☼	12/06/19 17:30	12/11/19 17:12	1
Selenium	<0.57		0.97	0.57	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1
Silver	**0.63**		0.49	0.13	mg/Kg	☼	12/06/19 17:30	12/11/19 06:19	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.013**	**J**	0.017	0.0057	mg/Kg	☼	12/09/19 15:35	12/10/19 10:17	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-5 (0-1)
Date Collected: 11/27/19 09:35
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-3
Matrix: Solid
Percent Solids: 79.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		75	35	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1,1-Trichloroethane	<28		75	28	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1,2,2-Tetrachloroethane	<30		75	30	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1,2-Trichloroethane	<26		75	26	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1-Dichloroethane	<31		75	31	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1-Dichloroethene	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,1-Dichloropropene	<22		75	22	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2,3-Trichlorobenzene	<34		75	34	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2,3-Trichloropropane	<31		150	31	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2,4-Trichlorobenzene	<26		75	26	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2,4-Trimethylbenzene	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2-Dibromoethane	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2-Dichlorobenzene	<25		75	25	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2-Dichloroethane	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,2-Dichloropropane	<32		75	32	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,3,5-Trimethylbenzene	<28		75	28	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,3-Dichlorobenzene	<30		75	30	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,3-Dichloropropane	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
1,4-Dichlorobenzene	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
2,2-Dichloropropane	<33		75	33	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
2-Chlorotoluene	<24		75	24	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
4-Chlorotoluene	<26		75	26	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Benzene	<11		19	11	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Bromobenzene	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Bromochloromethane	<32	*	75	32	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Bromodichloromethane	<28		75	28	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Bromoform	<36		75	36	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Bromomethane	<60		220	60	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Carbon tetrachloride	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Chlorobenzene	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Chloroethane	<38		75	38	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Chloroform	<28		150	28	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Chloromethane	<24		75	24	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
cis-1,2-Dichloroethene	<31		75	31	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
cis-1,3-Dichloropropene	<31		75	31	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Dibromochloromethane	<37		75	37	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Dibromomethane	<20	*	75	20	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Dichlorodifluoromethane	<50		220	50	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Ethylbenzene	**19**		19	14	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Hexachlorobutadiene	<33		75	33	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Isopropyl ether	<21		75	21	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Isopropylbenzene	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Methyl tert-butyl ether	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Methylene Chloride	<120		370	120	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Naphthalene	<25		75	25	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
n-Butylbenzene	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
N-Propylbenzene	<31		75	31	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
p-Isopropyltoluene	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50

Client Sample ID: S-5 (0-1)

Date Collected: 11/27/19 09:35
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-3

Matrix: Solid
Percent Solids: 79.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<30		75	30	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Styrene	<29		75	29	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
tert-Butylbenzene	<30		75	30	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Tetrachloroethene	<28		75	28	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Toluene	**84**		19	11	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
trans-1,2-Dichloroethene	<26		75	26	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
trans-1,3-Dichloropropene	<27		75	27	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Trichloroethene	<12	*	37	12	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Trichlorofluoromethane	<32		75	32	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Vinyl chloride	<20		75	20	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50
Xylenes, Total	<16		37	16	ug/Kg	☼	11/27/19 09:35	12/09/19 18:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*11/27/19 09:35*	*12/09/19 18:14*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 09:35*	*12/09/19 18:14*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*11/27/19 09:35*	*12/09/19 18:14*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*11/27/19 09:35*	*12/09/19 18:14*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.7		80	9.7	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
2-Methylnaphthalene	**7.8**	**J**	80	7.3	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Acenaphthene	**29**	**J**	40	7.2	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Acenaphthylene	**35**	**J**	40	5.2	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Anthracene	**88**		40	6.6	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Benzo[a]anthracene	**480**		40	5.4	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Benzo[a]pyrene	**580**		40	7.7	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Benzo[b]fluoranthene	**890**		40	8.6	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Benzo[g,h,i]perylene	**380**		40	13	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Benzo[k]fluoranthene	**240**		40	12	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Chrysene	**680**		40	11	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Dibenz(a,h)anthracene	**100**		40	7.7	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Fluoranthene	**960**		40	7.4	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Fluorene	**28**	**J**	40	5.6	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Indeno[1,2,3-cd]pyrene	**360**		40	10	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Naphthalene	**13**	**J**	40	6.1	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Phenanthrene	**450**		40	5.5	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1
Pyrene	**860**		40	7.9	ug/Kg	☼	12/11/19 07:46	12/12/19 00:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*	*12/11/19 07:46*	*12/12/19 00:15*	*1*
Nitrobenzene-d5 (Surr)	*76*		*37 - 147*	*12/11/19 07:46*	*12/12/19 00:15*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*12/11/19 07:46*	*12/12/19 00:15*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.4		21	7.4	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
PCB-1221	<9.2		21	9.2	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
PCB-1232	<9.1		21	9.1	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1

Client Sample ID: S-5 (0-1)

Lab Sample ID: 500-174375-3
Date Collected: 11/27/19 09:35
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 79.6

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<8.2		21	8.2	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
PCB-1254	<4.5		21	4.5	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
PCB-1260	<10		21	10	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1
Polychlorinated biphenyls, Total	<4.0		21	4.0	ug/Kg	☼	12/10/19 17:14	12/11/19 11:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*93*		*49 - 129*	*12/10/19 17:14*	*12/11/19 11:57*	*1*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*12/10/19 17:14*	*12/11/19 11:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.5**		1.1	0.37	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1
Barium	**54**	**B**	1.1	0.12	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1
Cadmium	**0.46**	**B**	0.22	0.039	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1
Chromium	**17**		1.1	0.54	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1
Lead	**130**	**B**	0.54	0.25	mg/Kg	☼	12/06/19 17:30	12/11/19 17:16	1
Selenium	**0.83**	**J**	1.1	0.64	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1
Silver	**1.4**		0.54	0.14	mg/Kg	☼	12/06/19 17:30	12/11/19 06:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.074**		0.019	0.0064	mg/Kg	☼	12/09/19 15:35	12/10/19 10:19	1

Client Sample ID: S-5 (2-4)

Lab Sample ID: 500-174375-4
Date Collected: 11/27/19 09:40
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		63	29	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1,1-Trichloroethane	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1,2,2-Tetrachloroethane	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1,2-Trichloroethane	<22		63	22	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1-Dichloroethane	<26		63	26	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1-Dichloroethene	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,1-Dichloropropene	<19		63	19	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2,3-Trichlorobenzene	<29		63	29	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2,4-Trichlorobenzene	<21		63	21	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2,4-Trimethylbenzene	<22		63	22	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2-Dibromo-3-Chloropropane	<130		310	130	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2-Dibromoethane	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2-Dichlorobenzene	<21		63	21	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2-Dichloroethane	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,2-Dichloropropane	<27		63	27	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,3,5-Trimethylbenzene	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,3-Dichlorobenzene	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,3-Dichloropropane	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
1,4-Dichlorobenzene	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
2,2-Dichloropropane	<28		63	28	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
2-Chlorotoluene	<20		63	20	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50

Client Sample ID: S-5 (2-4)
Date Collected: 11/27/19 09:40
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-4
Matrix: Solid
Percent Solids: 88.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<22		63	22	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Benzene	<9.2		16	9.2	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Bromobenzene	<22		63	22	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Bromochloromethane	<27	*	63	27	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Bromodichloromethane	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Bromoform	<30		63	30	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Bromomethane	<50		190	50	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Carbon tetrachloride	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Chlorobenzene	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Chloroethane	<32		63	32	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Chloroform	<23		130	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Chloromethane	<20		63	20	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
cis-1,2-Dichloroethene	<26		63	26	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
cis-1,3-Dichloropropene	<26		63	26	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Dibromochloromethane	<31		63	31	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Dibromomethane	<17	*	63	17	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Ethylbenzene	<11		16	11	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Hexachlorobutadiene	<28		63	28	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Isopropyl ether	<17		63	17	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Isopropylbenzene	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Methyl tert-butyl ether	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Methylene Chloride	<100		310	100	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Naphthalene	<21		63	21	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
n-Butylbenzene	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
N-Propylbenzene	<26		63	26	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
p-Isopropyltoluene	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
sec-Butylbenzene	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Styrene	<24		63	24	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
tert-Butylbenzene	<25		63	25	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Tetrachloroethene	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Toluene	<9.2		16	9.2	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
trans-1,2-Dichloroethene	<22		63	22	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
trans-1,3-Dichloropropene	<23		63	23	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Trichloroethene	<10	*	31	10	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Trichlorofluoromethane	<27		63	27	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Vinyl chloride	<16		63	16	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50
Xylenes, Total	<14		31	14	ug/Kg	☼	11/27/19 09:40	12/09/19 18:41	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*11/27/19 09:40*	*12/09/19 18:41*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 09:40*	*12/09/19 18:41*	*50*
Dibromofluoromethane (Surr)	*98*		*75 - 120*	*11/27/19 09:40*	*12/09/19 18:41*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*11/27/19 09:40*	*12/09/19 18:41*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1

Client Sample ID: S-5 (2-4)

Date Collected: 11/27/19 09:40
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-4

Matrix: Solid
Percent Solids: 88.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	22	J	37	4.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Anthracene	30	J	37	6.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Benzo[a]anthracene	190		37	5.0	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Benzo[a]pyrene	190		37	7.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Benzo[b]fluoranthene	190		37	8.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Benzo[g,h,i]perylene	110		37	12	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Benzo[k]fluoranthene	99		37	11	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Chrysene	210		37	10	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Dibenz(a,h)anthracene	37		37	7.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Fluoranthene	330		37	6.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Fluorene	7.8	J	37	5.3	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Indeno[1,2,3-cd]pyrene	97		37	9.7	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Phenanthrene	130		37	5.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1
Pyrene	420		37	7.4	ug/Kg	☼	12/11/19 07:46	12/11/19 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*	*12/11/19 07:46*	*12/11/19 21:04*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*12/11/19 07:46*	*12/11/19 21:04*	*1*
Terphenyl-d14 (Surr)	*85*		*42 - 157*	*12/11/19 07:46*	*12/11/19 21:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1
Polychlorinated biphenyls, Total	<3.6		19	3.6	ug/Kg	☼	12/10/19 17:14	12/11/19 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 129*	*12/10/19 17:14*	*12/11/19 12:12*	*1*
DCB Decachlorobiphenyl	*78*		*37 - 121*	*12/10/19 17:14*	*12/11/19 12:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.0		1.1	0.37	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1
Barium	27	B	1.1	0.12	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1
Cadmium	0.16	J B	0.22	0.039	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1
Chromium	12		1.1	0.54	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1
Lead	7.5	B	0.55	0.25	mg/Kg	☼	12/06/19 17:30	12/11/19 17:20	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1
Silver	1.0		0.55	0.14	mg/Kg	☼	12/06/19 17:30	12/11/19 06:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.061		0.018	0.0061	mg/Kg	☼	12/09/19 15:35	12/10/19 10:21	1

Client Sample ID: S-6 (0-1)

Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5

Matrix: Solid
Percent Solids: 78.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		77	35	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1,1-Trichloroethane	<29		77	29	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1,2,2-Tetrachloroethane	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1,2-Trichloroethane	<27		77	27	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1-Dichloroethane	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1-Dichloroethene	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,1-Dichloropropene	<23		77	23	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2,3-Trichlorobenzene	<35		77	35	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2,3-Trichloropropane	<32		150	32	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2,4-Trichlorobenzene	<26		77	26	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2,4-Trimethylbenzene	<27		77	27	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2-Dibromoethane	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2-Dichlorobenzene	<26		77	26	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2-Dichloroethane	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,2-Dichloropropane	<33		77	33	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,3,5-Trimethylbenzene	<29		77	29	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,3-Dichlorobenzene	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,3-Dichloropropane	<28		77	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
1,4-Dichlorobenzene	<28		77	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
2,2-Dichloropropane	<34		77	34	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
2-Chlorotoluene	<24		77	24	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
4-Chlorotoluene	<27		77	27	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Benzene	<11		19	11	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Bromobenzene	<27		77	27	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Bromochloromethane	<33	*	77	33	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Bromodichloromethane	<29		77	29	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Bromoform	<37		77	37	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Bromomethane	<61		230	61	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Carbon tetrachloride	<29		77	29	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Chlorobenzene	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Chloroethane	<39		77	39	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Chloroform	<28		150	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Chloromethane	<25		77	25	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
cis-1,2-Dichloroethene	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
cis-1,3-Dichloropropene	<32		77	32	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Dibromochloromethane	<37		77	37	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Dibromomethane	<21	*	77	21	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Dichlorodifluoromethane	<52		230	52	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Ethylbenzene	<14		19	14	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Hexachlorobutadiene	<34		77	34	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Isopropyl ether	<21		77	21	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Isopropylbenzene	<29		77	29	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Methyl tert-butyl ether	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Methylene Chloride	<130		380	130	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Naphthalene	<26		77	26	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
n-Butylbenzene	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
N-Propylbenzene	<32		77	32	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
p-Isopropyltoluene	<28		77	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50

Client Sample ID: S-6 (0-1)
Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5
Matrix: Solid
Percent Solids: 78.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Styrene	<30		77	30	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
tert-Butylbenzene	<31		77	31	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Tetrachloroethene	<28		77	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Toluene	<11		19	11	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
trans-1,2-Dichloroethene	<27		77	27	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
trans-1,3-Dichloropropene	<28		77	28	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Trichloroethene	<13	*	38	13	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Trichlorofluoromethane	<33		77	33	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Vinyl chloride	<20		77	20	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50
Xylenes, Total	<17		38	17	ug/Kg	☼	11/27/19 09:55	12/09/19 19:07	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*11/27/19 09:55*	*12/09/19 19:07*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 09:55*	*12/09/19 19:07*	*50*
Dibromofluoromethane (Surr)	*95*		*75 - 120*	*11/27/19 09:55*	*12/09/19 19:07*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*11/27/19 09:55*	*12/09/19 19:07*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		85	10	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
2-Methylnaphthalene	**8.2**	**J**	85	7.7	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Acenaphthene	**19**	**J**	42	7.5	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Acenaphthylene	**21**	**J**	42	5.5	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Anthracene	**47**		42	7.0	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Benzo[a]anthracene	**290**		42	5.7	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Benzo[a]pyrene	**380**		42	8.1	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Benzo[b]fluoranthene	**570**		42	9.1	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Benzo[g,h,i]perylene	**250**		42	14	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Benzo[k]fluoranthene	**180**		42	12	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Chrysene	**420**		42	11	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Dibenz(a,h)anthracene	**49**		42	8.1	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Fluoranthene	**710**		42	7.8	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Fluorene	**15**	**J**	42	5.9	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Indeno[1,2,3-cd]pyrene	**220**		42	11	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Naphthalene	**7.5**	**J**	42	6.5	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Phenanthrene	**240**		42	5.9	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1
Pyrene	**560**		42	8.3	ug/Kg	☼	12/11/19 07:46	12/12/19 00:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*91*		*43 - 145*	*12/11/19 07:46*	*12/12/19 00:39*	*1*
Nitrobenzene-d5 (Surr)	*70*		*37 - 147*	*12/11/19 07:46*	*12/12/19 00:39*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*12/11/19 07:46*	*12/12/19 00:39*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<7.5		21	7.5	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
PCB-1221	<9.3		21	9.3	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
PCB-1232	<9.2		21	9.2	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
PCB-1242	<6.9		21	6.9	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1

Client Sample ID: S-6 (0-1)

Lab Sample ID: 500-174375-5
Date Collected: 11/27/19 09:55
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 78.7

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<8.3		21	8.3	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
PCB-1254	<4.6		21	4.6	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
PCB-1260	<10		21	10	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1
Polychlorinated biphenyls, Total	<4.0		21	4.0	ug/Kg	☼	12/10/19 17:14	12/11/19 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*112*		*49 - 129*	*12/10/19 17:14*	*12/11/19 12:27*	*1*
DCB Decachlorobiphenyl	*105*		*37 - 121*	*12/10/19 17:14*	*12/11/19 12:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.5**		1.2	0.41	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Barium	**71**	**B**	1.2	0.14	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Cadmium	**0.63**	**B**	0.24	0.043	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Chromium	**18**		1.2	0.59	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Lead	**150**	**B**	0.60	0.28	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Selenium	<0.71		1.2	0.71	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1
Silver	**2.1**		0.60	0.15	mg/Kg	☼	12/06/19 17:30	12/11/19 06:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.062**		0.020	0.0068	mg/Kg	☼	12/09/19 15:35	12/10/19 10:23	1

Client Sample ID: S-6 (2-4)

Lab Sample ID: 500-174375-6
Date Collected: 11/27/19 10:00
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<29		63	29	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1,1-Trichloroethane	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1,2,2-Tetrachloroethane	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1,2-Trichloroethane	<22		63	22	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1-Dichloroethane	<26		63	26	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1-Dichloroethene	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,1-Dichloropropene	<19		63	19	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2,3-Trichlorobenzene	<29		63	29	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2,3-Trichloropropane	<26		130	26	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2,4-Trichlorobenzene	<22		63	22	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2,4-Trimethylbenzene	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2-Dibromo-3-Chloropropane	<130		310	130	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2-Dibromoethane	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2-Dichlorobenzene	<21		63	21	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2-Dichloroethane	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,2-Dichloropropane	<27		63	27	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,3,5-Trimethylbenzene	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,3-Dichlorobenzene	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,3-Dichloropropane	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
1,4-Dichlorobenzene	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
2,2-Dichloropropane	<28		63	28	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
2-Chlorotoluene	<20		63	20	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50

Client Sample ID: S-6 (2-4)
Date Collected: 11/27/19 10:00
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-6
Matrix: Solid
Percent Solids: 88.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<22		63	22	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Benzene	<9.2		16	9.2	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Bromobenzene	<22		63	22	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Bromochloromethane	<27	*	63	27	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Bromodichloromethane	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Bromoform	<30		63	30	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Bromomethane	<50		190	50	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Carbon tetrachloride	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Chlorobenzene	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Chloroethane	<32		63	32	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Chloroform	<23		130	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Chloromethane	<20		63	20	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
cis-1,2-Dichloroethene	<26		63	26	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
cis-1,3-Dichloropropene	<26		63	26	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Dibromochloromethane	<31		63	31	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Dibromomethane	<17	*	63	17	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Ethylbenzene	<12		16	12	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Hexachlorobutadiene	<28		63	28	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Isopropyl ether	<17		63	17	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Isopropylbenzene	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Methyl tert-butyl ether	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Methylene Chloride	<100		310	100	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Naphthalene	<21		63	21	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
n-Butylbenzene	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
N-Propylbenzene	<26		63	26	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
p-Isopropyltoluene	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
sec-Butylbenzene	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Styrene	<24		63	24	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
tert-Butylbenzene	<25		63	25	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Tetrachloroethene	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Toluene	<9.3		16	9.3	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
trans-1,2-Dichloroethene	<22		63	22	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
trans-1,3-Dichloropropene	<23		63	23	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Trichloroethene	<10	*	31	10	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Trichlorofluoromethane	<27		63	27	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Vinyl chloride	<16		63	16	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50
Xylenes, Total	<14		31	14	ug/Kg	☼	11/27/19 10:00	12/09/19 19:33	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*11/27/19 10:00*	*12/09/19 19:33*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 10:00*	*12/09/19 19:33*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*11/27/19 10:00*	*12/09/19 19:33*	*50*
Toluene-d8 (Surr)	*104*		*75 - 120*	*11/27/19 10:00*	*12/09/19 19:33*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.0		74	9.0	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
2-Methylnaphthalene	<6.8		74	6.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Acenaphthene	<6.6		36	6.6	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1

Client Sample ID: S-6 (2-4)

Date Collected: 11/27/19 10:00
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-6

Matrix: Solid
Percent Solids: 88.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	14	J	36	4.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Anthracene	130		36	6.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Benzo[a]anthracene	79		36	4.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Benzo[a]pyrene	81		36	7.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Benzo[b]fluoranthene	86		36	7.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Benzo[g,h,i]perylene	55		36	12	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Benzo[k]fluoranthene	49		36	11	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Chrysene	97		36	10	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Dibenz(a,h)anthracene	<7.1		36	7.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Fluoranthene	120		36	6.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Fluorene	7.4	J	36	5.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Indeno[1,2,3-cd]pyrene	52		36	9.5	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Naphthalene	5.7	J	36	5.6	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Phenanthrene	38		36	5.1	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1
Pyrene	120		36	7.3	ug/Kg	☼	12/11/19 07:46	12/11/19 21:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*102*		*43 - 145*	*12/11/19 07:46*	*12/11/19 21:28*	*1*
Nitrobenzene-d5 (Surr)	*75*		*37 - 147*	*12/11/19 07:46*	*12/11/19 21:28*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*12/11/19 07:46*	*12/11/19 21:28*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	1400	J	1900	630	ug/Kg	☼	11/27/19 10:00	12/04/19 07:34	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.5		18	6.5	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1221	<8.1		18	8.1	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1232	<8.0		18	8.0	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1242	<6.1		18	6.1	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1248	<7.3		18	7.3	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1254	<4.0		18	4.0	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
PCB-1260	<9.1		18	9.1	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1
Polychlorinated biphenyls, Total	<3.5		18	3.5	ug/Kg	☼	12/10/19 17:14	12/11/19 12:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*96*		*49 - 129*	*12/10/19 17:14*	*12/11/19 12:43*	*1*
DCB Decachlorobiphenyl	*89*		*37 - 121*	*12/10/19 17:14*	*12/11/19 12:43*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.5	1.8	mg/Kg	☼	12/04/19 09:28	12/04/19 19:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*74*		*44 - 148*	*12/04/19 09:28*	*12/04/19 19:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7		0.94	0.32	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1

Client Sample ID: S-6 (2-4)

Lab Sample ID: 500-174375-6
Date Collected: 11/27/19 10:00
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 88.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	**34**	**B**	0.94	0.11	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1
Cadmium	**0.26**	**B**	0.19	0.034	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1
Chromium	**11**		0.94	0.47	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1
Lead	**12**	**B**	0.47	0.22	mg/Kg	☼	12/06/19 17:30	12/11/19 17:24	1
Selenium	<0.55		0.94	0.55	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1
Silver	**1.2**		0.47	0.12	mg/Kg	☼	12/06/19 17:30	12/11/19 06:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.080**		0.018	0.0058	mg/Kg	☼	12/09/19 15:35	12/10/19 10:25	1

Client Sample ID: S-7 (0-1)

Lab Sample ID: 500-174375-7
Date Collected: 11/27/19 10:25
Matrix: Solid
Date Received: 12/03/19 09:45
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		55	26	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1,1-Trichloroethane	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1,2,2-Tetrachloroethane	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1,2-Trichloroethane	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1-Dichloroethane	<23		55	23	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1-Dichloroethene	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,1-Dichloropropene	<17		55	17	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2,3-Trichlorobenzene	<25		55	25	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2,3-Trichloropropane	<23		110	23	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2,4-Trichlorobenzene	<19		55	19	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2,4-Trimethylbenzene	**30**	**J**	55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2-Dibromoethane	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2-Dichlorobenzene	<19		55	19	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2-Dichloroethane	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,2-Dichloropropane	<24		55	24	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,3,5-Trimethylbenzene	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,3-Dichlorobenzene	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,3-Dichloropropane	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
1,4-Dichlorobenzene	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
2,2-Dichloropropane	<25		55	25	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
2-Chlorotoluene	<17		55	17	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
4-Chlorotoluene	<19		55	19	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Benzene	<8.1		14	8.1	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Bromobenzene	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Bromochloromethane	<24	*	55	24	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Bromodichloromethane	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Bromoform	<27		55	27	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Bromomethane	<44		170	44	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Carbon tetrachloride	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Chlorobenzene	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Chloroethane	<28		55	28	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Chloroform	<21		110	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50

Client Sample ID: S-7 (0-1)
Date Collected: 11/27/19 10:25
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-7
Matrix: Solid
Percent Solids: 94.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<18		55	18	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
cis-1,2-Dichloroethene	<23		55	23	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
cis-1,3-Dichloropropene	<23		55	23	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Dibromochloromethane	<27		55	27	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Dibromomethane	<15	*	55	15	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Dichlorodifluoromethane	<37		170	37	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Ethylbenzene	**38**		14	10	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Hexachlorobutadiene	<25		55	25	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Isopropyl ether	<15		55	15	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Isopropylbenzene	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Methyl tert-butyl ether	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Methylene Chloride	<90		280	90	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Naphthalene	<19		55	19	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
n-Butylbenzene	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
N-Propylbenzene	<23		55	23	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
p-Isopropyltoluene	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
sec-Butylbenzene	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Styrene	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
tert-Butylbenzene	<22		55	22	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Tetrachloroethene	<21		55	21	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Toluene	**180**		14	8.2	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
trans-1,2-Dichloroethene	<19		55	19	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
trans-1,3-Dichloropropene	<20		55	20	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Trichloroethene	<9.1	*	28	9.1	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Trichlorofluoromethane	<24		55	24	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Vinyl chloride	<15		55	15	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50
Xylenes, Total	**170**		28	12	ug/Kg	☼	11/27/19 12:05	12/09/19 19:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*11/27/19 12:05*	*12/09/19 19:59*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 12:05*	*12/09/19 19:59*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*11/27/19 12:05*	*12/09/19 19:59*	*50*
Toluene-d8 (Surr)	*102*		*75 - 120*	*11/27/19 12:05*	*12/09/19 19:59*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.5		70	8.5	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
2-Methylnaphthalene	<6.4		70	6.4	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Acenaphthene	**8.4**	**J**	34	6.2	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Acenaphthylene	**15**	**J**	34	4.6	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Anthracene	**29**	**J**	34	5.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Benzo[a]anthracene	**100**		34	4.7	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Benzo[a]pyrene	**110**		34	6.7	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Benzo[b]fluoranthene	**170**		34	7.5	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Benzo[g,h,i]perylene	**120**		34	11	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Benzo[k]fluoranthene	**68**		34	10	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Chrysene	**120**		34	9.4	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Dibenz(a,h)anthracene	**28**	**J**	34	6.7	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Fluoranthene	**210**		34	6.4	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Fluorene	**11**	**J**	34	4.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1

Client Sample ID: S-7 (0-1)

Date Collected: 11/27/19 10:25
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-7

Matrix: Solid
Percent Solids: 94.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	93		34	9.0	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Naphthalene	6.3	J	34	5.3	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Phenanthrene	110		34	4.8	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1
Pyrene	160		34	6.9	ug/Kg	☼	12/11/19 07:46	12/11/19 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*101*		*43 - 145*	*12/11/19 07:46*	*12/11/19 21:52*	*1*
Nitrobenzene-d5 (Surr)	*72*		*37 - 147*	*12/11/19 07:46*	*12/11/19 21:52*	*1*
Terphenyl-d14 (Surr)	*96*		*42 - 157*	*12/11/19 07:46*	*12/11/19 21:52*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.1		17	6.1	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1221	<7.5		17	7.5	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1232	<7.5		17	7.5	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1242	<5.6		17	5.6	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1248	<6.8		17	6.8	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1254	<3.7		17	3.7	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
PCB-1260	<8.4		17	8.4	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1
Polychlorinated biphenyls, Total	<3.3		17	3.3	ug/Kg	☼	12/10/19 17:14	12/11/19 12:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*98*		*49 - 129*	*12/10/19 17:14*	*12/11/19 12:58*	*1*
DCB Decachlorobiphenyl	*91*		*37 - 121*	*12/10/19 17:14*	*12/11/19 12:58*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8		0.91	0.31	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1
Barium	22	B	0.91	0.10	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1
Cadmium	0.27	B	0.18	0.033	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1
Chromium	9.5		0.91	0.45	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1
Lead	28	B	0.45	0.21	mg/Kg	☼	12/06/19 17:30	12/11/19 17:28	1
Selenium	<0.53		0.91	0.53	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1
Silver	1.0		0.45	0.12	mg/Kg	☼	12/06/19 17:30	12/11/19 06:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.030		0.016	0.0054	mg/Kg	☼	12/09/19 15:35	12/10/19 10:27	1

Client Sample ID: S-7 (2-4)

Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8

Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,1-Dichloroethene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50

Client Sample ID: S-7 (2-4)

Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8

Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<18		60	18	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2-Dichloroethane	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Benzene	<8.8		15	8.8	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Bromobenzene	<21		60	21	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Bromochloromethane	<26	*	60	26	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Bromodichloromethane	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Bromoform	<29		60	29	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Bromomethane	<48		180	48	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Carbon tetrachloride	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Chlorobenzene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Chloroethane	<30		60	30	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Chloroform	<22		120	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Chloromethane	<19		60	19	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Dibromomethane	<16	*	60	16	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Ethylbenzene	<11		15	11	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Isopropyl ether	<17		60	17	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Methylene Chloride	<98		300	98	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Naphthalene	<20		60	20	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
n-Butylbenzene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
sec-Butylbenzene	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Styrene	<23		60	23	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Tetrachloroethene	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Toluene	<8.8		15	8.8	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50

Client Sample ID: S-7 (2-4)

Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8

Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Trichloroethene	<9.9	*	30	9.9	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Trichlorofluoromethane	<26		60	26	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Vinyl chloride	<16		60	16	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50
Xylenes, Total	<13		30	13	ug/Kg	☼	11/27/19 10:30	12/09/19 20:25	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*	*11/27/19 10:30*	*12/09/19 20:25*	*50*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*	*11/27/19 10:30*	*12/09/19 20:25*	*50*
Dibromofluoromethane (Surr)	*97*		*75 - 120*	*11/27/19 10:30*	*12/09/19 20:25*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*11/27/19 10:30*	*12/09/19 20:25*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.2		76	9.2	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
2-Methylnaphthalene	<6.9		76	6.9	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Acenaphthene	**7.6**	**J**	37	6.8	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Acenaphthylene	**15**	**J**	37	5.0	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Anthracene	**27**	**J**	37	6.3	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Benzo[a]anthracene	**140**		37	5.1	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Benzo[a]pyrene	**160**		37	7.3	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Benzo[b]fluoranthene	**200**		37	8.1	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Benzo[g,h,i]perylene	**110**		37	12	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Benzo[k]fluoranthene	**140**		37	11	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Chrysene	**170**		37	10	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Dibenz(a,h)anthracene	**20**	**J**	37	7.3	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Fluoranthene	**270**		37	7.0	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Fluorene	**10**	**J**	37	5.3	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Indeno[1,2,3-cd]pyrene	**100**		37	9.8	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Naphthalene	**9.0**	**J**	37	5.8	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Phenanthrene	**120**		37	5.3	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1
Pyrene	**240**		37	7.5	ug/Kg	☼	12/11/19 07:46	12/11/19 22:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*95*		*43 - 145*	*12/11/19 07:46*	*12/11/19 22:16*	*1*
Nitrobenzene-d5 (Surr)	*67*		*37 - 147*	*12/11/19 07:46*	*12/11/19 22:16*	*1*
Terphenyl-d14 (Surr)	*89*		*42 - 157*	*12/11/19 07:46*	*12/11/19 22:16*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**780**	**J**	1800	600	ug/Kg	☼	11/27/19 10:30	12/04/19 08:08	50

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		19	6.6	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
PCB-1221	<8.2		19	8.2	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
PCB-1232	<8.1		19	8.1	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
PCB-1242	<6.1		19	6.1	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
PCB-1248	<7.3		19	7.3	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-7 (2-4)
Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8
Matrix: Solid
Percent Solids: 87.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1260	<9.1		19	9.1	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1
Polychlorinated biphenyls, Total	<3.6		19	3.6	ug/Kg	☼	12/10/19 17:14	12/11/19 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*49 - 129*	*12/10/19 17:14*	*12/11/19 13:14*	*1*
DCB Decachlorobiphenyl	*63*		*37 - 121*	*12/10/19 17:14*	*12/11/19 13:14*	*1*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**2.7**	**J**	4.6	1.8	mg/Kg	☼	12/04/19 09:28	12/04/19 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*77*		*44 - 148*	*12/04/19 09:28*	*12/04/19 19:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.3**		1.1	0.36	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1
Barium	**41**	**B**	1.1	0.12	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1
Cadmium	**0.30**	**B**	0.21	0.038	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1
Chromium	**18**		1.1	0.53	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1
Lead	**14**	**B**	0.53	0.25	mg/Kg	☼	12/06/19 17:30	12/11/19 17:32	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1
Silver	**1.4**		0.53	0.14	mg/Kg	☼	12/06/19 17:30	12/11/19 06:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.074**		0.018	0.0060	mg/Kg	☼	12/09/19 15:35	12/10/19 10:29	1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

GC/MS VOA

Prep Batch: 518521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	5035	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	5035	
500-174375-3	S-5 (0-1)	Total/NA	Solid	5035	
500-174375-4	S-5 (2-4)	Total/NA	Solid	5035	
500-174375-5	S-6 (0-1)	Total/NA	Solid	5035	
500-174375-6	S-6 (2-4)	Total/NA	Solid	WI GRO	
500-174375-7	S-7 (0-1)	Total/NA	Solid	5035	
500-174375-8	S-7 (2-4)	Total/NA	Solid	WI GRO	
500-174375-8 MS	S-7 (2-4)	Total/NA	Solid	WI GRO	
500-174375-8 MSD	S-7 (2-4)	Total/NA	Solid	WI GRO	

Analysis Batch: 519475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	8260B	518521
500-174375-2	S-2R (1"-20")	Total/NA	Solid	8260B	518521
500-174375-3	S-5 (0-1)	Total/NA	Solid	8260B	518521
500-174375-4	S-5 (2-4)	Total/NA	Solid	8260B	518521
500-174375-5	S-6 (0-1)	Total/NA	Solid	8260B	518521
500-174375-6	S-6 (2-4)	Total/NA	Solid	8260B	518521
500-174375-7	S-7 (0-1)	Total/NA	Solid	8260B	518521
500-174375-8	S-7 (2-4)	Total/NA	Solid	8260B	518521
MB 500-519475/6	Method Blank	Total/NA	Solid	8260B	
500-174375-8 MS	S-7 (2-4)	Total/NA	Solid	8260B	518521
500-174375-8 MSD	S-7 (2-4)	Total/NA	Solid	8260B	518521

GC/MS Semi VOA

Prep Batch: 519915

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	3541	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	3541	
500-174375-3	S-5 (0-1)	Total/NA	Solid	3541	
500-174375-4	S-5 (2-4)	Total/NA	Solid	3541	
500-174375-5	S-6 (0-1)	Total/NA	Solid	3541	
500-174375-6	S-6 (2-4)	Total/NA	Solid	3541	
500-174375-7	S-7 (0-1)	Total/NA	Solid	3541	
500-174375-8	S-7 (2-4)	Total/NA	Solid	3541	
MB 500-519915/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-519915/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	3541	
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	3541	

Analysis Batch: 520085

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	8270D	519915
500-174375-2	S-2R (1"-20")	Total/NA	Solid	8270D	519915
500-174375-3	S-5 (0-1)	Total/NA	Solid	8270D	519915
500-174375-4	S-5 (2-4)	Total/NA	Solid	8270D	519915
500-174375-5	S-6 (0-1)	Total/NA	Solid	8270D	519915
500-174375-6	S-6 (2-4)	Total/NA	Solid	8270D	519915
500-174375-7	S-7 (0-1)	Total/NA	Solid	8270D	519915

GC/MS Semi VOA (Continued)

Analysis Batch: 520085 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-8	S-7 (2-4)	Total/NA	Solid	8270D	519915
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	8270D	519915
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	8270D	519915

Analysis Batch: 520171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-519915/1-A	Method Blank	Total/NA	Solid	8270D	519915
LCS 500-519915/2-A	Lab Control Sample	Total/NA	Solid	8270D	519915

GC VOA

Prep Batch: 518521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	WI GRO	
500-174375-8	S-7 (2-4)	Total/NA	Solid	WI GRO	
LB3 500-518521/19-A	Method Blank	Total/NA	Solid	5035	
LCS 500-518521/21-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-518521/22-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 518536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	WI-GRO	518521
500-174375-8	S-7 (2-4)	Total/NA	Solid	WI-GRO	518521
LB3 500-518521/19-A	Method Blank	Total/NA	Solid	WI-GRO	518521
LCS 500-518521/21-A	Lab Control Sample	Total/NA	Solid	WI-GRO	518521
LCSD 500-518521/22-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	518521

GC Semi VOA

Prep Batch: 518632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	WI DRO PREP	
500-174375-8	S-7 (2-4)	Total/NA	Solid	WI DRO PREP	
MB 500-518632/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-518632/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-518632/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 518658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	WI-DRO	518632
500-174375-8	S-7 (2-4)	Total/NA	Solid	WI-DRO	518632
MB 500-518632/1-A	Method Blank	Total/NA	Solid	WI-DRO	518632
LCS 500-518632/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	518632
LCSD 500-518632/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	518632

Prep Batch: 519858

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	3541	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	3541	
500-174375-3	S-5 (0-1)	Total/NA	Solid	3541	
500-174375-4	S-5 (2-4)	Total/NA	Solid	3541	
500-174375-5	S-6 (0-1)	Total/NA	Solid	3541	

GC Semi VOA (Continued)

Prep Batch: 519858 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	3541	
500-174375-7	S-7 (0-1)	Total/NA	Solid	3541	
500-174375-8	S-7 (2-4)	Total/NA	Solid	3541	
MB 500-519858/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-519858/2-A	Lab Control Sample	Total/NA	Solid	3541	
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	3541	
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	3541	

Analysis Batch: 519958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	8082A	519858
500-174375-2	S-2R (1"-20")	Total/NA	Solid	8082A	519858
500-174375-3	S-5 (0-1)	Total/NA	Solid	8082A	519858
500-174375-4	S-5 (2-4)	Total/NA	Solid	8082A	519858
500-174375-5	S-6 (0-1)	Total/NA	Solid	8082A	519858
500-174375-6	S-6 (2-4)	Total/NA	Solid	8082A	519858
500-174375-7	S-7 (0-1)	Total/NA	Solid	8082A	519858
500-174375-8	S-7 (2-4)	Total/NA	Solid	8082A	519858
MB 500-519858/1-A	Method Blank	Total/NA	Solid	8082A	519858
LCS 500-519858/2-A	Lab Control Sample	Total/NA	Solid	8082A	519858
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	8082A	519858
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	8082A	519858

Metals

Prep Batch: 519276

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	3050B	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	3050B	
500-174375-3	S-5 (0-1)	Total/NA	Solid	3050B	
500-174375-4	S-5 (2-4)	Total/NA	Solid	3050B	
500-174375-5	S-6 (0-1)	Total/NA	Solid	3050B	
500-174375-6	S-6 (2-4)	Total/NA	Solid	3050B	
500-174375-7	S-7 (0-1)	Total/NA	Solid	3050B	
500-174375-8	S-7 (2-4)	Total/NA	Solid	3050B	
MB 500-519276/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-519276/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 519541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	7471B	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	7471B	
500-174375-3	S-5 (0-1)	Total/NA	Solid	7471B	
500-174375-4	S-5 (2-4)	Total/NA	Solid	7471B	
500-174375-5	S-6 (0-1)	Total/NA	Solid	7471B	
500-174375-6	S-6 (2-4)	Total/NA	Solid	7471B	
500-174375-7	S-7 (0-1)	Total/NA	Solid	7471B	
500-174375-8	S-7 (2-4)	Total/NA	Solid	7471B	
MB 500-519541/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-519541/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	7471B	

Metals (Continued)

Prep Batch: 519541 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	7471B	
500-174375-1 DU	S-1R (2-4)	Total/NA	Solid	7471B	

Analysis Batch: 519785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	7471B	519541
500-174375-2	S-2R (1"-20")	Total/NA	Solid	7471B	519541
500-174375-3	S-5 (0-1)	Total/NA	Solid	7471B	519541
500-174375-4	S-5 (2-4)	Total/NA	Solid	7471B	519541
500-174375-5	S-6 (0-1)	Total/NA	Solid	7471B	519541
500-174375-6	S-6 (2-4)	Total/NA	Solid	7471B	519541
500-174375-7	S-7 (0-1)	Total/NA	Solid	7471B	519541
500-174375-8	S-7 (2-4)	Total/NA	Solid	7471B	519541
MB 500-519541/12-A	Method Blank	Total/NA	Solid	7471B	519541
LCS 500-519541/13-A	Lab Control Sample	Total/NA	Solid	7471B	519541
500-174375-1 MS	S-1R (2-4)	Total/NA	Solid	7471B	519541
500-174375-1 MSD	S-1R (2-4)	Total/NA	Solid	7471B	519541
500-174375-1 DU	S-1R (2-4)	Total/NA	Solid	7471B	519541

Analysis Batch: 519918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	6010B	519276
500-174375-2	S-2R (1"-20")	Total/NA	Solid	6010B	519276
500-174375-3	S-5 (0-1)	Total/NA	Solid	6010B	519276
500-174375-4	S-5 (2-4)	Total/NA	Solid	6010B	519276
500-174375-5	S-6 (0-1)	Total/NA	Solid	6010B	519276
500-174375-6	S-6 (2-4)	Total/NA	Solid	6010B	519276
500-174375-7	S-7 (0-1)	Total/NA	Solid	6010B	519276
500-174375-8	S-7 (2-4)	Total/NA	Solid	6010B	519276
MB 500-519276/1-A	Method Blank	Total/NA	Solid	6010B	519276
LCS 500-519276/2-A	Lab Control Sample	Total/NA	Solid	6010B	519276

Analysis Batch: 520143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	6010B	519276
500-174375-2	S-2R (1"-20")	Total/NA	Solid	6010B	519276
500-174375-3	S-5 (0-1)	Total/NA	Solid	6010B	519276
500-174375-4	S-5 (2-4)	Total/NA	Solid	6010B	519276
500-174375-6	S-6 (2-4)	Total/NA	Solid	6010B	519276
500-174375-7	S-7 (0-1)	Total/NA	Solid	6010B	519276
500-174375-8	S-7 (2-4)	Total/NA	Solid	6010B	519276

General Chemistry

Analysis Batch: 519152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-1	S-1R (2-4)	Total/NA	Solid	Moisture	
500-174375-2	S-2R (1"-20")	Total/NA	Solid	Moisture	
500-174375-3	S-5 (0-1)	Total/NA	Solid	Moisture	
500-174375-4	S-5 (2-4)	Total/NA	Solid	Moisture	
500-174375-5	S-6 (0-1)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 519152 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-6	S-6 (2-4)	Total/NA	Solid	Moisture	
500-174375-7	S-7 (0-1)	Total/NA	Solid	Moisture	
500-174375-8	S-7 (2-4)	Total/NA	Solid	Moisture	
500-174375-4 DU	S-5 (2-4)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-174375-1	S-1R (2-4)	91	98	97	102
500-174375-2	S-2R (1"-20")	93	101	97	103
500-174375-3	S-5 (0-1)	92	100	97	104
500-174375-4	S-5 (2-4)	92	100	98	103
500-174375-5	S-6 (0-1)	92	100	95	104
500-174375-6	S-6 (2-4)	91	100	97	104
500-174375-7	S-7 (0-1)	92	100	96	102
500-174375-8	S-7 (2-4)	93	100	97	103
500-174375-8 MS	S-7 (2-4)	91	103	97	104
500-174375-8 MSD	S-7 (2-4)	93	104	100	104
MB 500-519475/6	Method Blank	92	100	98	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	FBP (43-145)	NBZ (37-147)	TPHL (42-157)
500-174375-1	S-1R (2-4)	103	75	101
500-174375-1 MS	S-1R (2-4)	102	79	96
500-174375-1 MSD	S-1R (2-4)	97	73	87
500-174375-2	S-2R (1"-20")	109	77	98
500-174375-3	S-5 (0-1)	98	76	89
500-174375-4	S-5 (2-4)	98	72	85
500-174375-5	S-6 (0-1)	91	70	90
500-174375-6	S-6 (2-4)	102	75	86
500-174375-7	S-7 (0-1)	101	72	96
500-174375-8	S-7 (2-4)	95	67	89
LCS 500-519915/2-A	Lab Control Sample	83	83	82
MB 500-519915/1-A	Method Blank	99	91	94

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-174375-1	S-1R (2-4)	106	96
500-174375-1 MS	S-1R (2-4)	105	101
500-174375-1 MSD	S-1R (2-4)	109	103

Surrogate Summary

Client: TRC Environmental Corporation. Job ID: 500-174375-1
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCBP1 (37-121)
500-174375-2	S-2R (1"-20")	88	80
500-174375-3	S-5 (0-1)	93	89
500-174375-4	S-5 (2-4)	85	78
500-174375-5	S-6 (0-1)	112	105
500-174375-6	S-6 (2-4)	96	89
500-174375-7	S-7 (0-1)	98	91
500-174375-8	S-7 (2-4)	74	63
LCS 500-519858/2-A	Lab Control Sample	67	86
MB 500-519858/1-A	Method Blank	74	86

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (44-148)
500-174375-6	S-6 (2-4)	74
500-174375-8	S-7 (2-4)	77
LCS 500-518632/2-A	Lab Control Sample	71
LCSD 500-518632/3-A	Lab Control Sample Dup	78
MB 500-518632/1-A	Method Blank	72

Surrogate Legend

C9 = n-Nonane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: 500-174375-8 MS
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: S-7 (2-4)
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<28		3010	2610		ug/Kg	☼	87	70 - 125
1,1,1-Trichloroethane	<23		3010	2670		ug/Kg	☼	89	70 - 125
1,1,2,2-Tetrachloroethane	<24		3010	2600		ug/Kg	☼	86	62 - 140
1,1,2-Trichloroethane	<21		3010	2710		ug/Kg	☼	90	71 - 130
1,1-Dichloroethane	<25		3010	2920		ug/Kg	☼	97	70 - 125
1,1-Dichloroethene	<23		3010	2890		ug/Kg	☼	96	67 - 122
1,1-Dichloropropene	<18		3010	2820		ug/Kg	☼	94	70 - 121
1,2,3-Trichlorobenzene	<28		3010	2470		ug/Kg	☼	82	51 - 145
1,2,3-Trichloropropane	<25		3010	2810		ug/Kg	☼	94	50 - 133
1,2,4-Trichlorobenzene	<21		3010	2480		ug/Kg	☼	82	57 - 137
1,2,4-Trimethylbenzene	<22		3010	2920		ug/Kg	☼	97	70 - 123
1,2-Dibromo-3-Chloropropane	<120		3010	2270		ug/Kg	☼	75	56 - 123
1,2-Dibromoethane	<23		3010	2630		ug/Kg	☼	87	70 - 125
1,2-Dichlorobenzene	<20		3010	2750		ug/Kg	☼	91	70 - 125
1,2-Dichloroethane	<24		3010	2620		ug/Kg	☼	87	68 - 127
1,2-Dichloropropane	<26		3010	2970		ug/Kg	☼	99	67 - 130
1,3,5-Trimethylbenzene	<23		3010	3020		ug/Kg	☼	100	70 - 123
1,3-Dichlorobenzene	<24		3010	2830		ug/Kg	☼	94	70 - 125
1,3-Dichloropropane	<22		3010	2600		ug/Kg	☼	87	62 - 136
1,4-Dichlorobenzene	<22		3010	2740		ug/Kg	☼	91	70 - 120
2,2-Dichloropropane	<27		3010	2440		ug/Kg	☼	81	58 - 139
2-Chlorotoluene	<19		3010	2950		ug/Kg	☼	98	70 - 125
4-Chlorotoluene	<21		3010	2860		ug/Kg	☼	95	68 - 124
Benzene	<8.8		3010	2780		ug/Kg	☼	93	70 - 120
Bromobenzene	<21		3010	2780		ug/Kg	☼	92	70 - 122
Bromochloromethane	<26	*	3010	2740	*	ug/Kg	☼	91	65 - 122
Bromodichloromethane	<22		3010	2560		ug/Kg	☼	85	69 - 120
Bromoform	<29		3010	2130		ug/Kg	☼	71	56 - 132
Bromomethane	<48		3010	2160		ug/Kg	☼	72	40 - 152
Carbon tetrachloride	<23		3010	2580		ug/Kg	☼	86	59 - 133
Chlorobenzene	<23		3010	2820		ug/Kg	☼	94	70 - 120
Chloroethane	<30		3010	2590		ug/Kg	☼	86	48 - 136
Chloroform	<22		3010	2680		ug/Kg	☼	89	70 - 120
Chloromethane	<19		3010	3770		ug/Kg	☼	125	56 - 152
cis-1,2-Dichloroethene	<25		3010	2840		ug/Kg	☼	94	70 - 125
cis-1,3-Dichloropropene	<25		3010	2580		ug/Kg	☼	86	64 - 127
Dibromochloromethane	<29		3010	2530		ug/Kg	☼	84	68 - 125
Dibromomethane	<16	*	3010	2490	*	ug/Kg	☼	83	70 - 120
Dichlorodifluoromethane	<41		3010	2880		ug/Kg	☼	96	40 - 159
Ethylbenzene	<11		3010	2810		ug/Kg	☼	93	70 - 123
Hexachlorobutadiene	<27		3010	2440		ug/Kg	☼	81	51 - 150
Isopropylbenzene	<23		3010	3080		ug/Kg	☼	102	70 - 126
Methyl tert-butyl ether	<24		3010	2190		ug/Kg	☼	73	55 - 123
Methylene Chloride	<98		3010	2700		ug/Kg	☼	90	69 - 125
Naphthalene	<20		3010	2520		ug/Kg	☼	84	53 - 144
n-Butylbenzene	<23		3010	2940		ug/Kg	☼	98	68 - 125
N-Propylbenzene	<25		3010	3000		ug/Kg	☼	100	69 - 127
p-Isopropyltoluene	<22		3010	3020		ug/Kg	☼	100	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-174375-8 MS
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: S-7 (2-4)
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	<24		3010	3060		ug/Kg	☼	102	70 - 123
Styrene	<23		3010	2790		ug/Kg	☼	93	70 - 120
tert-Butylbenzene	<24		3010	3060		ug/Kg	☼	102	70 - 121
Tetrachloroethene	<22		3010	2750		ug/Kg	☼	91	70 - 128
Toluene	<8.8		3010	2850		ug/Kg	☼	95	70 - 125
trans-1,2-Dichloroethene	<21		3010	2840		ug/Kg	☼	94	70 - 125
trans-1,3-Dichloropropene	<22		3010	2490		ug/Kg	☼	83	62 - 128
Trichloroethene	<9.9	*	3010	3030	*	ug/Kg	☼	101	70 - 125
Trichlorofluoromethane	<26		3010	2760		ug/Kg	☼	92	55 - 128
Vinyl chloride	<16		3010	3250		ug/Kg	☼	108	64 - 126
Xylenes, Total	<13		6020	5470		ug/Kg	☼	91	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: 500-174375-8 MSD
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: S-7 (2-4)
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<28		3010	2670		ug/Kg	☼	89	70 - 125	2	30
1,1,1-Trichloroethane	<23		3010	2680		ug/Kg	☼	89	70 - 125	0	30
1,1,2,2-Tetrachloroethane	<24		3010	2710		ug/Kg	☼	90	62 - 140	4	30
1,1,2-Trichloroethane	<21		3010	2780		ug/Kg	☼	92	71 - 130	2	30
1,1-Dichloroethane	<25		3010	2980		ug/Kg	☼	99	70 - 125	2	30
1,1-Dichloroethene	<23		3010	2920		ug/Kg	☼	97	67 - 122	1	30
1,1-Dichloropropene	<18		3010	2800		ug/Kg	☼	93	70 - 121	1	30
1,2,3-Trichlorobenzene	<28		3010	2630		ug/Kg	☼	87	51 - 145	6	30
1,2,3-Trichloropropane	<25		3010	2840		ug/Kg	☼	94	50 - 133	1	30
1,2,4-Trichlorobenzene	<21		3010	2650		ug/Kg	☼	88	57 - 137	7	30
1,2,4-Trimethylbenzene	<22		3010	2990		ug/Kg	☼	99	70 - 123	2	30
1,2-Dibromo-3-Chloropropane	<120		3010	2510		ug/Kg	☼	83	56 - 123	10	30
1,2-Dibromoethane	<23		3010	2710		ug/Kg	☼	90	70 - 125	3	30
1,2-Dichlorobenzene	<20		3010	2870		ug/Kg	☼	95	70 - 125	4	30
1,2-Dichloroethane	<24		3010	2660		ug/Kg	☼	89	68 - 127	2	30
1,2-Dichloropropane	<26		3010	2960		ug/Kg	☼	98	67 - 130	1	30
1,3,5-Trimethylbenzene	<23		3010	3030		ug/Kg	☼	101	70 - 123	0	30
1,3-Dichlorobenzene	<24		3010	2860		ug/Kg	☼	95	70 - 125	1	30
1,3-Dichloropropane	<22		3010	2660		ug/Kg	☼	88	62 - 136	2	30
1,4-Dichlorobenzene	<22		3010	2800		ug/Kg	☼	93	70 - 120	2	30
2,2-Dichloropropane	<27		3010	2450		ug/Kg	☼	82	58 - 139	1	30
2-Chlorotoluene	<19		3010	2980		ug/Kg	☼	99	70 - 125	1	30
4-Chlorotoluene	<21		3010	2930		ug/Kg	☼	97	68 - 124	2	30
Benzene	<8.8		3010	2790		ug/Kg	☼	93	70 - 120	0	30
Bromobenzene	<21		3010	2830		ug/Kg	☼	94	70 - 122	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-174375-8 MSD
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: S-7 (2-4)
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	<26	*	3010	2830	*	ug/Kg	☼	94	65 - 122	3	30
Bromodichloromethane	<22		3010	2620		ug/Kg	☼	87	69 - 120	2	30
Bromoform	<29		3010	2230		ug/Kg	☼	74	56 - 132	5	30
Bromomethane	<48		3010	2010		ug/Kg	☼	67	40 - 152	7	30
Carbon tetrachloride	<23		3010	2610		ug/Kg	☼	87	59 - 133	1	30
Chlorobenzene	<23		3010	2830		ug/Kg	☼	94	70 - 120	1	30
Chloroethane	<30		3010	2450		ug/Kg	☼	81	48 - 136	6	30
Chloroform	<22		3010	2730		ug/Kg	☼	91	70 - 120	2	30
Chloromethane	<19		3010	3500		ug/Kg	☼	116	56 - 152	7	30
cis-1,2-Dichloroethene	<25		3010	2910		ug/Kg	☼	97	70 - 125	2	30
cis-1,3-Dichloropropene	<25		3010	2630		ug/Kg	☼	88	64 - 127	2	30
Dibromochloromethane	<29		3010	2610		ug/Kg	☼	87	68 - 125	3	30
Dibromomethane	<16	*	3010	2580	*	ug/Kg	☼	86	70 - 120	3	30
Dichlorodifluoromethane	<41		3010	2560		ug/Kg	☼	85	40 - 159	12	30
Ethylbenzene	<11		3010	2830		ug/Kg	☼	94	70 - 123	1	30
Hexachlorobutadiene	<27		3010	2500		ug/Kg	☼	83	51 - 150	2	30
Isopropylbenzene	<23		3010	3120		ug/Kg	☼	104	70 - 126	1	30
Methyl tert-butyl ether	<24		3010	2340		ug/Kg	☼	78	55 - 123	6	30
Methylene Chloride	<98		3010	2730		ug/Kg	☼	91	69 - 125	1	30
Naphthalene	<20		3010	2730		ug/Kg	☼	91	53 - 144	8	30
n-Butylbenzene	<23		3010	3010		ug/Kg	☼	100	68 - 125	2	30
N-Propylbenzene	<25		3010	3030		ug/Kg	☼	101	69 - 127	1	30
p-Isopropyltoluene	<22		3010	3070		ug/Kg	☼	102	70 - 125	2	30
sec-Butylbenzene	<24		3010	3100		ug/Kg	☼	103	70 - 123	1	30
Styrene	<23		3010	2850		ug/Kg	☼	95	70 - 120	2	30
tert-Butylbenzene	<24		3010	3100		ug/Kg	☼	103	70 - 121	1	30
Tetrachloroethene	<22		3010	2790		ug/Kg	☼	93	70 - 128	2	30
Toluene	<8.8		3010	2860		ug/Kg	☼	95	70 - 125	1	30
trans-1,2-Dichloroethene	<21		3010	2920		ug/Kg	☼	97	70 - 125	3	30
trans-1,3-Dichloropropene	<22		3010	2540		ug/Kg	☼	84	62 - 128	2	30
Trichloroethene	<9.9	*	3010	3090	*	ug/Kg	☼	103	70 - 125	2	30
Trichlorofluoromethane	<26		3010	2580		ug/Kg	☼	86	55 - 128	7	30
Vinyl chloride	<16		3010	2950		ug/Kg	☼	98	64 - 126	10	30
Xylenes, Total	<13		6020	5500		ug/Kg	☼	91	70 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
Toluene-d8 (Surr)	*104*		*75 - 120*

Lab Sample ID: MB 500-519475/6
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			12/09/19 11:45	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			12/09/19 11:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-519475/6
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			12/09/19 11:45	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			12/09/19 11:45	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			12/09/19 11:45	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			12/09/19 11:45	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			12/09/19 11:45	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			12/09/19 11:45	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			12/09/19 11:45	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			12/09/19 11:45	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			12/09/19 11:45	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			12/09/19 11:45	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			12/09/19 11:45	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			12/09/19 11:45	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			12/09/19 11:45	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			12/09/19 11:45	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			12/09/19 11:45	1
Benzene	<0.15		0.25	0.15	ug/Kg			12/09/19 11:45	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			12/09/19 11:45	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			12/09/19 11:45	1
Bromoform	<0.48		1.0	0.48	ug/Kg			12/09/19 11:45	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			12/09/19 11:45	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			12/09/19 11:45	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			12/09/19 11:45	1
Chloroform	<0.37		2.0	0.37	ug/Kg			12/09/19 11:45	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			12/09/19 11:45	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			12/09/19 11:45	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			12/09/19 11:45	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			12/09/19 11:45	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			12/09/19 11:45	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			12/09/19 11:45	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			12/09/19 11:45	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			12/09/19 11:45	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			12/09/19 11:45	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			12/09/19 11:45	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			12/09/19 11:45	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			12/09/19 11:45	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			12/09/19 11:45	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			12/09/19 11:45	1
Styrene	<0.39		1.0	0.39	ug/Kg			12/09/19 11:45	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-519475/6
Matrix: Solid
Analysis Batch: 519475

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			12/09/19 11:45	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			12/09/19 11:45	1
Toluene	<0.15		0.25	0.15	ug/Kg			12/09/19 11:45	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			12/09/19 11:45	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			12/09/19 11:45	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			12/09/19 11:45	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			12/09/19 11:45	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			12/09/19 11:45	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			12/09/19 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*		*12/09/19 11:45*	*1*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*12/09/19 11:45*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*12/09/19 11:45*	*1*
Toluene-d8 (Surr)	*103*		*75 - 120*		*12/09/19 11:45*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-519915/1-A
Matrix: Solid
Analysis Batch: 520171

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519915

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Acenaphthene	<6.0		33	6.0	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Anthracene	<5.6		33	5.6	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Chrysene	<9.1		33	9.1	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Fluoranthene	<6.2		33	6.2	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Fluorene	<4.7		33	4.7	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Naphthalene	<5.1		33	5.1	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Phenanthrene	<4.6		33	4.6	ug/Kg		12/11/19 07:46	12/12/19 13:20	1
Pyrene	<6.6		33	6.6	ug/Kg		12/11/19 07:46	12/12/19 13:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*99*		*43 - 145*	*12/11/19 07:46*	*12/12/19 13:20*	*1*
Nitrobenzene-d5 (Surr)	*91*		*37 - 147*	*12/11/19 07:46*	*12/12/19 13:20*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*12/11/19 07:46*	*12/12/19 13:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-519915/2-A
Matrix: Solid
Analysis Batch: 520171

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519915

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1190		ug/Kg		89	68 - 111
2-Methylnaphthalene	1330	1240		ug/Kg		93	69 - 112
Acenaphthene	1330	1220		ug/Kg		91	65 - 124
Acenaphthylene	1330	1210		ug/Kg		91	68 - 120
Anthracene	1330	1180		ug/Kg		89	70 - 114
Benzo[a]anthracene	1330	1090		ug/Kg		82	67 - 122
Benzo[a]pyrene	1330	1120		ug/Kg		84	65 - 133
Benzo[b]fluoranthene	1330	1200		ug/Kg		90	69 - 129
Benzo[g,h,i]perylene	1330	1180		ug/Kg		89	72 - 131
Benzo[k]fluoranthene	1330	1100		ug/Kg		82	68 - 127
Chrysene	1330	1100		ug/Kg		82	63 - 120
Dibenz(a,h)anthracene	1330	1140		ug/Kg		85	64 - 131
Fluoranthene	1330	1180		ug/Kg		89	62 - 120
Fluorene	1330	1210		ug/Kg		90	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1130		ug/Kg		85	68 - 130
Naphthalene	1330	1180		ug/Kg		88	63 - 110
Phenanthrene	1330	1180		ug/Kg		89	62 - 120
Pyrene	1330	1200		ug/Kg		90	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*83*		*43 - 145*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*
Terphenyl-d14 (Surr)	*82*		*42 - 157*

Lab Sample ID: 500-174375-1 MS
Matrix: Solid
Analysis Batch: 520085

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519915

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	<9.5		1570	1630		ug/Kg	☼	104	68 - 111
2-Methylnaphthalene	<7.1	F1	1570	1780	F1	ug/Kg	☼	114	69 - 112
Acenaphthene	<7.0		1570	1780		ug/Kg	☼	113	65 - 124
Acenaphthylene	11	J	1570	1720		ug/Kg	☼	109	68 - 120
Anthracene	15	J	1570	1620		ug/Kg	☼	103	70 - 114
Benzo[a]anthracene	65		1570	1600		ug/Kg	☼	98	67 - 122
Benzo[a]pyrene	69		1570	1650		ug/Kg	☼	101	65 - 133
Benzo[b]fluoranthene	100		1570	1460		ug/Kg	☼	86	69 - 129
Benzo[g,h,i]perylene	48		1570	1840		ug/Kg	☼	114	72 - 131
Benzo[k]fluoranthene	38	J	1570	1660		ug/Kg	☼	104	68 - 127
Chrysene	87		1570	1860		ug/Kg	☼	113	63 - 120
Dibenz(a,h)anthracene	13	J	1570	1790		ug/Kg	☼	113	64 - 131
Fluoranthene	120		1570	1740		ug/Kg	☼	104	62 - 120
Fluorene	<5.5		1570	1790		ug/Kg	☼	114	62 - 120
Indeno[1,2,3-cd]pyrene	52		1570	1810		ug/Kg	☼	112	68 - 130
Naphthalene	<6.0		1570	1640		ug/Kg	☼	104	63 - 110
Phenanthrene	53		1570	1640		ug/Kg	☼	101	62 - 120
Pyrene	120		1570	1680		ug/Kg	☼	99	61 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-174375-1 MS
Matrix: Solid
Analysis Batch: 520085

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519915

Surrogate	MS %Recovery	MS Qualifier	Limits
2-Fluorobiphenyl (Surr)	102		43 - 145
Nitrobenzene-d5 (Surr)	79		37 - 147
Terphenyl-d14 (Surr)	96		42 - 157

Lab Sample ID: 500-174375-1 MSD
Matrix: Solid
Analysis Batch: 520085

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519915

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	<9.5		1560	1440		ug/Kg	☼	92	68 - 111	13	30
2-Methylnaphthalene	<7.1	F1	1560	1580		ug/Kg	☼	101	69 - 112	12	30
Acenaphthene	<7.0		1560	1620		ug/Kg	☼	104	65 - 124	9	30
Acenaphthylene	11	J	1560	1570		ug/Kg	☼	100	68 - 120	9	30
Anthracene	15	J	1560	1490		ug/Kg	☼	95	70 - 114	8	30
Benzo[a]anthracene	65		1560	1420		ug/Kg	☼	87	67 - 122	12	30
Benzo[a]pyrene	69		1560	1430		ug/Kg	☼	87	65 - 133	14	30
Benzo[b]fluoranthene	100		1560	1330		ug/Kg	☼	78	69 - 129	9	30
Benzo[g,h,i]perylene	48		1560	1610		ug/Kg	☼	100	72 - 131	13	30
Benzo[k]fluoranthene	38	J	1560	1430		ug/Kg	☼	89	68 - 127	15	30
Chrysene	87		1560	1600		ug/Kg	☼	97	63 - 120	15	30
Dibenz(a,h)anthracene	13	J	1560	1600		ug/Kg	☼	101	64 - 131	11	30
Fluoranthene	120		1560	1510		ug/Kg	☼	89	62 - 120	15	30
Fluorene	<5.5		1560	1640		ug/Kg	☼	105	62 - 120	9	30
Indeno[1,2,3-cd]pyrene	52		1560	1590		ug/Kg	☼	98	68 - 130	13	30
Naphthalene	<6.0		1560	1450		ug/Kg	☼	93	63 - 110	12	30
Phenanthrene	53		1560	1520		ug/Kg	☼	94	62 - 120	7	30
Pyrene	120		1560	1510		ug/Kg	☼	89	61 - 128	11	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2-Fluorobiphenyl (Surr)	97		43 - 145
Nitrobenzene-d5 (Surr)	73		37 - 147
Terphenyl-d14 (Surr)	87		42 - 157

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-518521/19-A
Matrix: Solid
Analysis Batch: 518536

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518521

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		12/03/19 20:30	12/04/19 04:06	50

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-518521/21-A
Matrix: Solid
Analysis Batch: 518536

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	20300		ug/Kg		101	80 - 120

Lab Sample ID: LCSD 500-518521/22-A
Matrix: Solid
Analysis Batch: 518536

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518521

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	20100		ug/Kg		100	80 - 120	1	20

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-519858/1-A
Matrix: Solid
Analysis Batch: 519958

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519858

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1221	<7.3		17	7.3	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1232	<7.3		17	7.3	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1242	<5.5		17	5.5	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1248	<6.6		17	6.6	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1254	<3.6		17	3.6	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
PCB-1260	<8.2		17	8.2	ug/Kg		12/10/19 17:14	12/11/19 09:32	1
Polychlorinated biphenyls, Total	<3.2		17	3.2	ug/Kg		12/10/19 17:14	12/11/19 09:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*49 - 129*	*12/10/19 17:14*	*12/11/19 09:32*	*1*
DCB Decachlorobiphenyl	*86*		*37 - 121*	*12/10/19 17:14*	*12/11/19 09:32*	*1*

Lab Sample ID: LCS 500-519858/2-A
Matrix: Solid
Analysis Batch: 519958

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519858

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	144		ug/Kg		87	57 - 120
PCB-1260	167	138		ug/Kg		83	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*67*		*49 - 129*
DCB Decachlorobiphenyl	*86*		*37 - 121*

Lab Sample ID: 500-174375-1 MS
Matrix: Solid
Analysis Batch: 519958

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<6.9		196	204		ug/Kg	☼	104	57 - 120

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 500-174375-1 MS
Matrix: Solid
Analysis Batch: 519958

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519858

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1260	<9.6		196	181		ug/Kg	☼	93	61 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*105*		*49 - 129*
DCB Decachlorobiphenyl	*101*		*37 - 121*

Lab Sample ID: 500-174375-1 MSD
Matrix: Solid
Analysis Batch: 519958

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519858

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<6.9		196	206		ug/Kg	☼	105	57 - 120	1	30
PCB-1260	<9.6		196	180		ug/Kg	☼	92	61 - 125	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*49 - 129*
DCB Decachlorobiphenyl	*103*		*37 - 121*

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-518632/1-A
Matrix: Solid
Analysis Batch: 518658

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 518632

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		12/04/19 09:28	12/04/19 16:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*72*		*44 - 148*	*12/04/19 09:28*	*12/04/19 16:29*	*1*

Lab Sample ID: LCS 500-518632/2-A
Matrix: Solid
Analysis Batch: 518658

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 518632

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	20.0	17.0		mg/Kg		85	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*71*		*44 - 148*

Lab Sample ID: LCSD 500-518632/3-A
Matrix: Solid
Analysis Batch: 518658

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518632

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	20.0	17.4		mg/Kg		87	70 - 120	3	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-518632/3-A
Matrix: Solid
Analysis Batch: 518658

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 518632

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*78*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-519276/1-A
Matrix: Solid
Analysis Batch: 519918

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519276

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Barium	0.448	J	1.0	0.11	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Cadmium	0.0399	J	0.20	0.036	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Chromium	<0.50		1.0	0.50	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Lead	0.266	J	0.50	0.23	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Selenium	<0.59		1.0	0.59	mg/Kg		12/06/19 17:30	12/11/19 04:39	1
Silver	<0.13		0.50	0.13	mg/Kg		12/06/19 17:30	12/11/19 04:39	1

Lab Sample ID: LCS 500-519276/2-A
Matrix: Solid
Analysis Batch: 519918

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519276

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.26		mg/Kg		93	80 - 120
Barium	200	200		mg/Kg		100	80 - 120
Cadmium	5.00	4.74		mg/Kg		95	80 - 120
Chromium	20.0	20.4		mg/Kg		102	80 - 120
Lead	10.0	10.1		mg/Kg		101	80 - 120
Selenium	10.0	8.63		mg/Kg		86	80 - 120
Silver	5.00	4.45		mg/Kg		89	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-519541/12-A
Matrix: Solid
Analysis Batch: 519785

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 519541

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		12/09/19 15:35	12/10/19 09:36	1

Lab Sample ID: LCS 500-519541/13-A
Matrix: Solid
Analysis Batch: 519785

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 519541

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.164		mg/Kg		98	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-174375-1 MS
Matrix: Solid
Analysis Batch: 519785

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519541

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.063		0.0960	0.154		mg/Kg	☼	95	75 - 125		

Lab Sample ID: 500-174375-1 MSD
Matrix: Solid
Analysis Batch: 519785

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519541

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.063		0.0956	0.161		mg/Kg	☼	103	75 - 125	5	20

Lab Sample ID: 500-174375-1 DU
Matrix: Solid
Analysis Batch: 519785

Client Sample ID: S-1R (2-4)
Prep Type: Total/NA
Prep Batch: 519541

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.063		0.0667		mg/Kg	☼	6	20

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-1R (2-4)
Date Collected: 11/27/19 10:15
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-1R (2-4)
Date Collected: 11/27/19 10:15
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-1
Matrix: Solid
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 10:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 17:22	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 20:16	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 10:02	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:00	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:15	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:04	MJG	TAL CHI

Client Sample ID: S-2R (1"-20")
Date Collected: 11/27/19 10:45
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-2R (1"-20")
Date Collected: 11/27/19 10:45
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-2
Matrix: Solid
Percent Solids: 93.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 10:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 17:48	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 20:40	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 11:41	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:12	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:19	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:17	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-5 (0-1)
Date Collected: 11/27/19 09:35
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-5 (0-1)
Date Collected: 11/27/19 09:35
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-3
Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 09:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 18:14	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/12/19 00:15	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 11:57	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:16	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:23	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:19	MJG	TAL CHI

Client Sample ID: S-5 (2-4)
Date Collected: 11/27/19 09:40
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-5 (2-4)
Date Collected: 11/27/19 09:40
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-4
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 09:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 18:41	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 21:04	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 12:12	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:20	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:27	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:21	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-6 (0-1)
Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-6 (0-1)
Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5
Matrix: Solid
Percent Solids: 78.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 09:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 19:07	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/12/19 00:39	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 12:27	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:44	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:23	MJG	TAL CHI

Client Sample ID: S-6 (2-4)
Date Collected: 11/27/19 10:00
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-6 (2-4)
Date Collected: 11/27/19 10:00
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-6
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			518521	11/27/19 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 19:33	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 21:28	NRJ	TAL CHI
Total/NA	Prep	WI GRO			518521	11/27/19 10:00	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	518536	12/04/19 07:34	WRE	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 12:43	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			518632	12/04/19 09:28	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	518658	12/04/19 19:07	JBJ	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:24	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:48	EEN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-6 (2-4)
Date Collected: 11/27/19 10:00
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-6
Matrix: Solid
Percent Solids: 88.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:25	MJG	TAL CHI

Client Sample ID: S-7 (0-1)
Date Collected: 11/27/19 10:25
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-7 (0-1)
Date Collected: 11/27/19 10:25
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-7
Matrix: Solid
Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			518521	11/27/19 12:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 19:59	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 21:52	NRJ	TAL CHI
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 12:58	BJH	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:28	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:52	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:27	MJG	TAL CHI

Client Sample ID: S-7 (2-4)
Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	519152	12/06/19 10:20	LWN	TAL CHI

Client Sample ID: S-7 (2-4)
Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			518521	11/27/19 10:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	519475	12/09/19 20:25	EMA	TAL CHI
Total/NA	Prep	3541			519915	12/11/19 07:46	DX	TAL CHI
Total/NA	Analysis	8270D		1	520085	12/11/19 22:16	NRJ	TAL CHI
Total/NA	Prep	WI GRO			518521	11/27/19 10:30	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	518536	12/04/19 08:08	WRE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-1

Client Sample ID: S-7 (2-4)

Date Collected: 11/27/19 10:30
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-8

Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			519858	12/10/19 17:14	ACK	TAL CHI
Total/NA	Analysis	8082A		1	519958	12/11/19 13:14	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			518632	12/04/19 09:28	BSO	TAL CHI
Total/NA	Analysis	WI-DRO		1	518658	12/04/19 19:34	JBJ	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	520143	12/11/19 17:32	JEF	TAL CHI
Total/NA	Prep	3050B			519276	12/06/19 17:30	BDE	TAL CHI
Total/NA	Analysis	6010B		1	519918	12/11/19 06:56	EEN	TAL CHI
Total/NA	Prep	7471B			519541	12/09/19 15:35	MJG	TAL CHI
Total/NA	Analysis	7471B		1	519785	12/10/19 10:29	MJG	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-174375-1
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins Environment Testing TestAmerica

Client Information	Sampler: Alia Enright	Lab PM: Fredrick, Sandie	Carri: 500-174375 COC	COC No: 500-77227-35845.1
Client Contact: Mr. Bryan Bergmann	Phone:	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 1 of 1
Company: TRC Environmental Corporation.				Job #: ~~500~~ -174375
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested:			
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53045				
Phone:	PO #: Purchase Order Requested			
Email: bbergmann@trccompanies.com	WO #: WISDOT			
Project Name: I-43 Phase 2.5 Soil/Sediment 341633	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification AE	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	PCBs	PAH	RCRA metals	GRO	DRO	Total Number of containers	Special Instructions/Note:
				Preservation Code:											
1	S-1R ~~(0-1')~~ (2-4)	11/27/19	10:15	G	Solid			X	X	X	X				
2	S-2R (1'-20")		10:45		Solid										
3	S-5 (0-1)		9:35		Solid										
4	S-5 (2-4)		9:40		Solid										
5	S-6 (0-1)		9:55		Solid										
6	S-6 (2-4)		10:00		Solid							X	X		
7	S-7 (0-1)		10:25		Solid										
8	S-7 (2-4)		10:30		Solid							X	X		
					~~Solid~~										
					~~Solid~~										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Alia Enright	11/27/19 13:00	TRC	TRC Fridge	11/27/19 13:00	TRC
2	TRC Fridge	12/2/19 8:30	TRC	Shipment Holder	12/2/19 8:30	TRC
3					12-3-19 0945	TA

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 1.0 → 2.0

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-174375-1

Login Number: 174375
List Number: 1
Creator: James, Jeff A

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-174375-2
Client Project/Site: WisDOT 1-43 Ph.2.5 - 341633

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
12/31/2019 9:51:29 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-174375-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-174375-2

Comments
No additional comments.

Receipt
The samples were received on 12/3/2019 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Client Sample ID: S-6 (0-1)

Lab Sample ID: 500-174375-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.011	J	0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-174375-5	S-6 (0-1)	Solid	11/27/19 09:55	12/03/19 09:45	

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Client Sample ID: S-6 (0-1)
Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.011	J	0.050	0.0075	mg/L		12/30/19 06:47	12/30/19 18:25	1

Definitions/Glossary

Client: TRC Environmental Corporation.
Job ID: 500-174375-2
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Metals

Leach Batch: 522857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-5	S-6 (0-1)	TCLP	Solid	1311	
LB 500-522857/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 522928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-5	S-6 (0-1)	TCLP	Solid	3010A	522857
LB 500-522857/1-B	Method Blank	TCLP	Solid	3010A	522857
LCS 500-522928/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 523132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-174375-5	S-6 (0-1)	TCLP	Solid	6010B	522928
LB 500-522857/1-B	Method Blank	TCLP	Solid	6010B	522928
LCS 500-522928/2-A	Lab Control Sample	Total/NA	Solid	6010B	522928

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-522928/2-A
Matrix: Solid
Analysis Batch: 523132

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 522928

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0969		mg/L		97	80 - 120

Lab Sample ID: LB 500-522857/1-B
Matrix: Solid
Analysis Batch: 523132

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 522928

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		12/30/19 06:47	12/30/19 18:16	1

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Job ID: 500-174375-2

Client Sample ID: S-6 (0-1)

Date Collected: 11/27/19 09:55
Date Received: 12/03/19 09:45

Lab Sample ID: 500-174375-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			522857	12/27/19 18:00	BEC	TAL CHI
TCLP	Prep	3010A			522928	12/30/19 06:47	LMN	TAL CHI
TCLP	Analysis	6010B		1	523132	12/30/19 18:25	JEF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-174375-2
Project/Site: WisDOT 1-43 Ph.2.5 - 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State Program	999580010	08-31-20

Fredrick, Sandie

From: Enright, Alia <AEnright@trccompanies.com>
Sent: Wednesday, December 18, 2019 3:20 PM
To: Fredrick, Sandie
Cc: O'Connell, Theodore
Subject: RE: [EXTERNAL] Eurofins TestAmerica EDD and report files from 500-174375-1 WisDOT 1-43 Ph.2.5 - 341633

-External Email-

Sandie,
Do you have enough sample left to perform a TCLP lead analysis on sample S-6 (0-1)? If so, we'd like you to run that analysis.
Thanks,
Alia

Alia Enright
Project Engineer



150 North Patrick Blvd, Suite 180, Brookfield, WI 53045
T 608.826.3646 | **F** 262.879.1220 | **C** 608.572.3845
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Bergmann, Bryan <BBergmann@trccompanies.com>
Sent: Tuesday, December 17, 2019 7:48 AM
To: O'Connell, Theodore <TOConnell@trccompanies.com>; Enright, Alia <AEnright@trccompanies.com>
Subject: FW: [EXTERNAL] Eurofins TestAmerica EDD and report files from 500-174375-1 WisDOT 1-43 Ph.2.5 - 341633

From: Sandie Fredrick <sandie.fredrick@testamericainc.com>
Sent: Tuesday, December 17, 2019 7:00 AM
To: Sobbe, Aaron <ASobbe@trccompanies.com>; Bergmann, Bryan <BBergmann@trccompanies.com>; Hartwick, Ross <RHartwick@trccompanies.com>; Stapel, Warren <WStapel@trccompanies.com>
Subject: [EXTERNAL] Eurofins TestAmerica EDD and report files from 500-174375-1 WisDOT 1-43 Ph.2.5 - 341633

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello Everyone,

Attached please find the EDD and report files for job 500-174375-1; WisDOT 1-43 Ph.2.5 - 341633

Please feel free to contact me if you have any questions.

Thank you.

Sandie Fredrick
Project Manager

Eurofins TestAmerica, Chicago
Phone: 920-261-1660

E-mail: sandie.fredrick@testamericainc.com
www.eurofinsus.com | www.testamericainc.com

Reference: [500-510547]
Attachments: 5

Please let us know if we met your expectations by rating the service you received from Eurofins TestAmerica on this project by visiting our website at: Project Feedback

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-174375-2

Login Number: 174375
List Number: 1
Creator: James, Jeff A

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-182479-1
Client Project/Site: I-43 Phase 2.5 - 341633

For:
TRC Environmental Corporation.
708 Heartland Trail
Madison, Wisconsin 53717

Attn: Ted O'Connell

Sandie Fredrick

Authorized for release by:
6/8/2020 1:50:20 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-182479-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-182479-1

Comments
No additional comments.

Receipt
The sample was received on 5/22/2020 9:25 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC/MS VOA
Methods 624, 8260B: Methylene chloride was detected in the following samples: Waypoint 9 (2-4') (500-182479-1). The method blank associated with these samples was non-detect for Methylene chloride. Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Client Sample ID: Waypoint 9 (2-4')

Lab Sample ID: 500-182479-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	12	J	15	11	ug/Kg	50	☼	8260B	Total/NA
Methylene Chloride	240	J	300	98	ug/Kg	50	☼	8260B	Total/NA
Arsenic	4.3		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	36		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20	J B	0.21	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	15		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	190		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Silver	3.2		0.54	0.14	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.019		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-182479-1	Waypoint 9 (2-4')	Solid	05/21/20 09:25	05/22/20 09:25	

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Client Sample ID: Waypoint 9 (2-4')
Date Collected: 05/21/20 09:25
Date Received: 05/22/20 09:25

Lab Sample ID: 500-182479-1
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.8		15	8.8	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Bromobenzene	<21		60	21	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Bromochloromethane	<26		60	26	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Bromodichloromethane	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Bromoform	<29		60	29	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Bromomethane	<48		180	48	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Carbon tetrachloride	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Chlorobenzene	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Chloroethane	<30		60	30	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Chloroform	<22		120	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Chloromethane	<19		60	19	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Dibromomethane	<16		60	16	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Dichlorodifluoromethane	<41		180	41	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2-Dichloroethane	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1-Dichloroethene	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1-Dichloropropene	<18		60	18	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Ethylbenzene	**12**	**J**	15	11	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Isopropyl ether	<17		60	17	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Methylene Chloride	**240**	**J**	300	98	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Naphthalene	<20		60	20	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
n-Butylbenzene	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
sec-Butylbenzene	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Styrene	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Tetrachloroethene	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Toluene	<8.9		15	8.9	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50

Client Sample ID: Waypoint 9 (2-4')
Date Collected: 05/21/20 09:25
Date Received: 05/22/20 09:25

Lab Sample ID: 500-182479-1
Matrix: Solid
Percent Solids: 90.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Trichloroethene	<9.9		30	9.9	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Trichlorofluoromethane	<26		60	26	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2,3-Trichloropropane	<25		120	25	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Vinyl chloride	<16		60	16	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50
Xylenes, Total	<13		30	13	ug/Kg	☼	05/21/20 09:25	06/03/20 11:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*72 - 124*	*05/21/20 09:25*	*06/03/20 11:26*	*50*
Dibromofluoromethane (Surr)	*94*		*75 - 120*	*05/21/20 09:25*	*06/03/20 11:26*	*50*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*05/21/20 09:25*	*06/03/20 11:26*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*05/21/20 09:25*	*06/03/20 11:26*	*50*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.3		18	6.3	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1221	<7.9		18	7.9	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1232	<7.8		18	7.8	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1242	<5.9		18	5.9	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1248	<7.0		18	7.0	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1254	<3.9		18	3.9	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1
PCB-1260	<8.8		18	8.8	ug/Kg	☼	05/28/20 19:43	05/29/20 06:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*49 - 129*	*05/28/20 19:43*	*05/29/20 06:04*	*1*
DCB Decachlorobiphenyl	*102*		*37 - 121*	*05/28/20 19:43*	*05/29/20 06:04*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**		1.1	0.37	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Barium	**36**		1.1	0.12	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Cadmium	**0.20**	**J B**	0.21	0.039	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Chromium	**15**		1.1	0.53	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Lead	**190**		0.54	0.25	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1
Silver	**3.2**		0.54	0.14	mg/Kg	☼	05/27/20 17:55	05/28/20 10:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.019**		0.017	0.0057	mg/Kg	☼	06/01/20 14:15	06/02/20 07:54	1

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

GC/MS VOA

Prep Batch: 544151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	5035	
LB3 500-544151/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-544151/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 544190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-544151/21-A	Method Blank	Total/NA	Solid	8260B	544151
MB 500-544190/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-544151/22-A	Lab Control Sample	Total/NA	Solid	8260B	544151
LCS 500-544190/5	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 545637

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	8260B	544151
MB 500-545637/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-545637/5	Lab Control Sample	Total/NA	Solid	8260B	

GC Semi VOA

Prep Batch: 544879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	3541	
MB 500-544879/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-544879/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 544888

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	8082A	544879
MB 500-544879/1-A	Method Blank	Total/NA	Solid	8082A	544879
LCS 500-544879/2-A	Lab Control Sample	Total/NA	Solid	8082A	544879

Metals

Prep Batch: 544615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	3050B	
MB 500-544615/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-544615/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 544815

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	6010C	544615
MB 500-544615/1-A	Method Blank	Total/NA	Solid	6010C	544615
LCS 500-544615/2-A	Lab Control Sample	Total/NA	Solid	6010C	544615

Prep Batch: 545267

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	7471B	
MB 500-545267/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-545267/13-A	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Metals

Analysis Batch: 545493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	7471B	545267
MB 500-545267/12-A	Method Blank	Total/NA	Solid	7471B	545267
LCS 500-545267/13-A	Lab Control Sample	Total/NA	Solid	7471B	545267

General Chemistry

Analysis Batch: 544339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-182479-1	Waypoint 9 (2-4')	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-182479-1	Waypoint 9 (2-4')	104	94	92	95
LB3 500-544151/21-A	Method Blank	95	96	103	99
LCS 500-544151/22-A	Lab Control Sample	96	98	100	98
LCS 500-544190/5	Lab Control Sample	97	97	100	99
LCS 500-545637/5	Lab Control Sample	98	100	89	96
MB 500-544190/7	Method Blank	100	96	103	100
MB 500-545637/7	Method Blank	110	98	93	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCBP1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-182479-1	Waypoint 9 (2-4')	89	102
LCS 500-544879/2-A	Lab Control Sample	94	100
MB 500-544879/1-A	Method Blank	92	101

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCBP = DCB Decachlorobiphenyl

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-544151/21-A
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 544151

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Bromobenzene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Bromochloromethane	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Bromodichloromethane	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Bromoform	<24		50	24	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Bromomethane	<40		150	40	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Carbon tetrachloride	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Chlorobenzene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Chloroethane	<25		50	25	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Chloroform	<19		100	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Chloromethane	<16		50	16	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
2-Chlorotoluene	<16		50	16	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
4-Chlorotoluene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Dibromochloromethane	<24		50	24	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2-Dibromoethane	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Dibromomethane	<14		50	14	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1-Dichloroethane	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2-Dichloroethane	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1-Dichloroethene	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2-Dichloropropane	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,3-Dichloropropane	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
2,2-Dichloropropane	<22		50	22	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1-Dichloropropene	<15		50	15	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Hexachlorobutadiene	<22		50	22	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Isopropylbenzene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Isopropyl ether	<14		50	14	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Methylene Chloride	<82		250	82	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Naphthalene	<17		50	17	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
n-Butylbenzene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
N-Propylbenzene	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
p-Isopropyltoluene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
sec-Butylbenzene	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Styrene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
tert-Butylbenzene	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Tetrachloroethene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Toluene	<7.4		13	7.4	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-544151/21-A
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 544151

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Trichloroethene	<8.2		25	8.2	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Trichlorofluoromethane	<21		50	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Vinyl chloride	<13		50	13	ug/Kg		05/23/20 01:45	05/25/20 15:10	50
Xylenes, Total	<11		25	11	ug/Kg		05/23/20 01:45	05/25/20 15:10	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*05/23/20 01:45*	*05/25/20 15:10*	*50*
Dibromofluoromethane (Surr)	*96*		*75 - 120*	*05/23/20 01:45*	*05/25/20 15:10*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*	*05/23/20 01:45*	*05/25/20 15:10*	*50*
Toluene-d8 (Surr)	*99*		*75 - 120*	*05/23/20 01:45*	*05/25/20 15:10*	*50*

Lab Sample ID: LCS 500-544151/22-A
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 544151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2750		ug/Kg		110	70 - 120
Bromobenzene	2500	2770		ug/Kg		111	70 - 122
Bromochloromethane	2500	2810		ug/Kg		112	65 - 122
Bromodichloromethane	2500	2860		ug/Kg		115	69 - 120
Bromoform	2500	3030		ug/Kg		121	56 - 132
Bromomethane	2500	2880		ug/Kg		115	40 - 152
Carbon tetrachloride	2500	2920		ug/Kg		117	59 - 133
Chlorobenzene	2500	2770		ug/Kg		111	70 - 120
Chloroethane	2500	2740		ug/Kg		110	48 - 136
Chloroform	2500	2700		ug/Kg		108	70 - 120
Chloromethane	2500	2480		ug/Kg		99	56 - 152
2-Chlorotoluene	2500	2610		ug/Kg		104	70 - 125
4-Chlorotoluene	2500	2670		ug/Kg		107	68 - 124
cis-1,2-Dichloroethene	2500	2790		ug/Kg		111	70 - 125
cis-1,3-Dichloropropene	2500	2740		ug/Kg		110	64 - 127
Dibromochloromethane	2500	2850		ug/Kg		114	68 - 125
1,2-Dibromo-3-Chloropropane	2500	2390		ug/Kg		96	56 - 123
1,2-Dibromoethane	2500	3020		ug/Kg		121	70 - 125
Dibromomethane	2500	2800		ug/Kg		112	70 - 120
1,2-Dichlorobenzene	2500	2740		ug/Kg		109	70 - 125
1,3-Dichlorobenzene	2500	2770		ug/Kg		111	70 - 125
1,4-Dichlorobenzene	2500	2750		ug/Kg		110	70 - 120
Dichlorodifluoromethane	2500	1650		ug/Kg		66	40 - 159
1,1-Dichloroethane	2500	2680		ug/Kg		107	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-544151/22-A
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 544151

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	2710		ug/Kg		108	68 - 127
1,1-Dichloroethene	2500	2730		ug/Kg		109	67 - 122
1,2-Dichloropropane	2500	2730		ug/Kg		109	67 - 130
1,3-Dichloropropane	2500	2730		ug/Kg		109	62 - 136
2,2-Dichloropropane	2500	2920		ug/Kg		117	58 - 139
1,1-Dichloropropene	2500	2790		ug/Kg		112	70 - 121
Ethylbenzene	2500	2840		ug/Kg		114	70 - 123
Hexachlorobutadiene	2500	2500		ug/Kg		100	51 - 150
Isopropylbenzene	2500	2720		ug/Kg		109	70 - 126
Methylene Chloride	2500	2710		ug/Kg		108	69 - 125
Methyl tert-butyl ether	2500	2590		ug/Kg		104	55 - 123
Naphthalene	2500	2580		ug/Kg		103	53 - 144
n-Butylbenzene	2500	2680		ug/Kg		107	68 - 125
N-Propylbenzene	2500	2680		ug/Kg		107	69 - 127
p-Isopropyltoluene	2500	2730		ug/Kg		109	70 - 125
sec-Butylbenzene	2500	2660		ug/Kg		106	70 - 123
Styrene	2500	2860		ug/Kg		114	70 - 120
tert-Butylbenzene	2500	2700		ug/Kg		108	70 - 121
1,1,1,2-Tetrachloroethane	2500	2880		ug/Kg		115	70 - 125
1,1,2,2-Tetrachloroethane	2500	2930		ug/Kg		117	62 - 140
Tetrachloroethene	2500	2940		ug/Kg		117	70 - 128
Toluene	2500	2750		ug/Kg		110	70 - 125
trans-1,2-Dichloroethene	2500	2730		ug/Kg		109	70 - 125
trans-1,3-Dichloropropene	2500	2800		ug/Kg		112	62 - 128
1,2,3-Trichlorobenzene	2500	2750		ug/Kg		110	51 - 145
1,2,4-Trichlorobenzene	2500	2840		ug/Kg		114	57 - 137
1,1,1-Trichloroethane	2500	2920		ug/Kg		117	70 - 125
1,1,2-Trichloroethane	2500	2910		ug/Kg		117	71 - 130
Trichloroethene	2500	2940		ug/Kg		118	70 - 125
Trichlorofluoromethane	2500	2990		ug/Kg		120	55 - 128
1,2,3-Trichloropropane	2500	2970		ug/Kg		119	50 - 133
1,2,4-Trimethylbenzene	2500	2680		ug/Kg		107	70 - 123
1,3,5-Trimethylbenzene	2500	2690		ug/Kg		107	70 - 123
Vinyl chloride	2500	2560		ug/Kg		103	64 - 126
Xylenes, Total	5000	5490		ug/Kg		110	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
Toluene-d8 (Surr)	*98*		*75 - 120*

Lab Sample ID: MB 500-544190/7
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			05/25/20 11:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-544190/7
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			05/25/20 11:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			05/25/20 11:09	1
Bromoform	<0.48		1.0	0.48	ug/Kg			05/25/20 11:09	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			05/25/20 11:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			05/25/20 11:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			05/25/20 11:09	1
Chloroform	<0.37		2.0	0.37	ug/Kg			05/25/20 11:09	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			05/25/20 11:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			05/25/20 11:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			05/25/20 11:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			05/25/20 11:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			05/25/20 11:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			05/25/20 11:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			05/25/20 11:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			05/25/20 11:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			05/25/20 11:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			05/25/20 11:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			05/25/20 11:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			05/25/20 11:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			05/25/20 11:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			05/25/20 11:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			05/25/20 11:09	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			05/25/20 11:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			05/25/20 11:09	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			05/25/20 11:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			05/25/20 11:09	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			05/25/20 11:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			05/25/20 11:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			05/25/20 11:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/25/20 11:09	1
Styrene	<0.39		1.0	0.39	ug/Kg			05/25/20 11:09	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			05/25/20 11:09	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			05/25/20 11:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			05/25/20 11:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			05/25/20 11:09	1
Toluene	<0.15		0.25	0.15	ug/Kg			05/25/20 11:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			05/25/20 11:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			05/25/20 11:09	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-544190/7
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			05/25/20 11:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			05/25/20 11:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			05/25/20 11:09	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			05/25/20 11:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			05/25/20 11:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			05/25/20 11:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			05/25/20 11:09	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			05/25/20 11:09	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			05/25/20 11:09	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			05/25/20 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*72 - 124*		*05/25/20 11:09*	*1*
Dibromofluoromethane (Surr)	*96*		*75 - 120*		*05/25/20 11:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*		*05/25/20 11:09*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*05/25/20 11:09*	*1*

Lab Sample ID: LCS 500-544190/5
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	48.6		ug/Kg		97	70 - 120
Bromobenzene	50.0	51.1		ug/Kg		102	70 - 122
Bromochloromethane	50.0	51.0		ug/Kg		102	65 - 122
Bromodichloromethane	50.0	51.4		ug/Kg		103	69 - 120
Bromoform	50.0	52.2		ug/Kg		104	56 - 132
Bromomethane	50.0	59.3		ug/Kg		119	40 - 152
Carbon tetrachloride	50.0	51.2		ug/Kg		102	59 - 133
Chlorobenzene	50.0	48.5		ug/Kg		97	70 - 120
Chloroethane	50.0	51.5		ug/Kg		103	48 - 136
Chloroform	50.0	47.2		ug/Kg		94	70 - 120
Chloromethane	50.0	54.0		ug/Kg		108	56 - 152
2-Chlorotoluene	50.0	48.0		ug/Kg		96	70 - 125
4-Chlorotoluene	50.0	48.2		ug/Kg		96	68 - 124
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	70 - 125
cis-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	64 - 127
Dibromochloromethane	50.0	51.3		ug/Kg		103	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	47.2		ug/Kg		94	56 - 123
1,2-Dibromoethane	50.0	54.1		ug/Kg		108	70 - 125
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	49.9		ug/Kg		100	70 - 125
1,3-Dichlorobenzene	50.0	49.6		ug/Kg		99	70 - 125
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	52.7		ug/Kg		105	40 - 159
1,1-Dichloroethane	50.0	47.8		ug/Kg		96	70 - 125
1,2-Dichloroethane	50.0	49.4		ug/Kg		99	68 - 127
1,1-Dichloroethene	50.0	48.6		ug/Kg		97	67 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-544190/5
Matrix: Solid
Analysis Batch: 544190

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	49.7		ug/Kg		99	67 - 130
1,3-Dichloropropane	50.0	49.7		ug/Kg		99	62 - 136
2,2-Dichloropropane	50.0	52.7		ug/Kg		105	58 - 139
1,1-Dichloropropene	50.0	47.8		ug/Kg		96	70 - 121
Ethylbenzene	50.0	49.7		ug/Kg		99	70 - 123
Hexachlorobutadiene	50.0	46.3		ug/Kg		93	51 - 150
Isopropylbenzene	50.0	49.8		ug/Kg		100	70 - 126
Methylene Chloride	50.0	49.0		ug/Kg		98	69 - 125
Methyl tert-butyl ether	50.0	46.9		ug/Kg		94	55 - 123
Naphthalene	50.0	51.0		ug/Kg		102	53 - 144
n-Butylbenzene	50.0	47.4		ug/Kg		95	68 - 125
N-Propylbenzene	50.0	48.6		ug/Kg		97	69 - 127
p-Isopropyltoluene	50.0	49.0		ug/Kg		98	70 - 125
sec-Butylbenzene	50.0	47.8		ug/Kg		96	70 - 123
Styrene	50.0	49.6		ug/Kg		99	70 - 120
tert-Butylbenzene	50.0	48.6		ug/Kg		97	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	53.0		ug/Kg		106	62 - 140
Tetrachloroethene	50.0	51.0		ug/Kg		102	70 - 128
Toluene	50.0	49.4		ug/Kg		99	70 - 125
trans-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	51.1		ug/Kg		102	62 - 128
1,2,3-Trichlorobenzene	50.0	53.3		ug/Kg		107	51 - 145
1,2,4-Trichlorobenzene	50.0	51.6		ug/Kg		103	57 - 137
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	70 - 125
1,1,2-Trichloroethane	50.0	52.3		ug/Kg		105	71 - 130
Trichloroethene	50.0	51.3		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	52.0		ug/Kg		104	55 - 128
1,2,3-Trichloropropane	50.0	55.8		ug/Kg		112	50 - 133
1,2,4-Trimethylbenzene	50.0	48.2		ug/Kg		96	70 - 123
1,3,5-Trimethylbenzene	50.0	48.3		ug/Kg		97	70 - 123
Vinyl chloride	50.0	50.5		ug/Kg		101	64 - 126
Xylenes, Total	100	95.1		ug/Kg		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*72 - 124*
Dibromofluoromethane (Surr)	*97*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*
Toluene-d8 (Surr)	*99*		*75 - 120*

Lab Sample ID: MB 500-545637/7
Matrix: Solid
Analysis Batch: 545637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			06/03/20 10:35	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			06/03/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-545637/7
Matrix: Solid
Analysis Batch: 545637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			06/03/20 10:35	1
Bromoform	<0.48		1.0	0.48	ug/Kg			06/03/20 10:35	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			06/03/20 10:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			06/03/20 10:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			06/03/20 10:35	1
Chloroform	<0.37		2.0	0.37	ug/Kg			06/03/20 10:35	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			06/03/20 10:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			06/03/20 10:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			06/03/20 10:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			06/03/20 10:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			06/03/20 10:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			06/03/20 10:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			06/03/20 10:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			06/03/20 10:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			06/03/20 10:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			06/03/20 10:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			06/03/20 10:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			06/03/20 10:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			06/03/20 10:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			06/03/20 10:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			06/03/20 10:35	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			06/03/20 10:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			06/03/20 10:35	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			06/03/20 10:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			06/03/20 10:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			06/03/20 10:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			06/03/20 10:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			06/03/20 10:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/03/20 10:35	1
Styrene	<0.39		1.0	0.39	ug/Kg			06/03/20 10:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			06/03/20 10:35	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			06/03/20 10:35	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			06/03/20 10:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			06/03/20 10:35	1
Toluene	<0.15		0.25	0.15	ug/Kg			06/03/20 10:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			06/03/20 10:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			06/03/20 10:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			06/03/20 10:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			06/03/20 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-545637/7
Matrix: Solid
Analysis Batch: 545637

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			06/03/20 10:35	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			06/03/20 10:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			06/03/20 10:35	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			06/03/20 10:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			06/03/20 10:35	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			06/03/20 10:35	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			06/03/20 10:35	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			06/03/20 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*72 - 124*		*06/03/20 10:35*	*1*
Dibromofluoromethane (Surr)	*98*		*75 - 120*		*06/03/20 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*06/03/20 10:35*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*06/03/20 10:35*	*1*

Lab Sample ID: LCS 500-545637/5
Matrix: Solid
Analysis Batch: 545637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	47.8		ug/Kg		96	70 - 120
Bromobenzene	50.0	51.7		ug/Kg		103	70 - 122
Bromochloromethane	50.0	56.9		ug/Kg		114	65 - 122
Bromodichloromethane	50.0	46.1		ug/Kg		92	69 - 120
Bromoform	50.0	49.4		ug/Kg		99	56 - 132
Bromomethane	50.0	55.1		ug/Kg		110	40 - 152
Carbon tetrachloride	50.0	48.2		ug/Kg		96	59 - 133
Chlorobenzene	50.0	49.9		ug/Kg		100	70 - 120
Chloroethane	50.0	47.3		ug/Kg		95	48 - 136
Chloroform	50.0	47.9		ug/Kg		96	70 - 120
Chloromethane	50.0	49.7		ug/Kg		99	56 - 152
2-Chlorotoluene	50.0	47.5		ug/Kg		95	70 - 125
4-Chlorotoluene	50.0	46.8		ug/Kg		94	68 - 124
cis-1,2-Dichloroethene	50.0	51.3		ug/Kg		103	70 - 125
cis-1,3-Dichloropropene	50.0	45.0		ug/Kg		90	64 - 127
Dibromochloromethane	50.0	49.2		ug/Kg		98	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	35.8		ug/Kg		72	56 - 123
1,2-Dibromoethane	50.0	49.9		ug/Kg		100	70 - 125
Dibromomethane	50.0	47.7		ug/Kg		95	70 - 120
1,2-Dichlorobenzene	50.0	50.4		ug/Kg		101	70 - 125
1,3-Dichlorobenzene	50.0	51.0		ug/Kg		102	70 - 125
1,4-Dichlorobenzene	50.0	49.0		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	39.5		ug/Kg		79	40 - 159
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	70 - 125
1,2-Dichloroethane	50.0	46.6		ug/Kg		93	68 - 127
1,1-Dichloroethene	50.0	48.2		ug/Kg		96	67 - 122
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	67 - 130
1,3-Dichloropropane	50.0	47.3		ug/Kg		95	62 - 136

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-545637/5
Matrix: Solid
Analysis Batch: 545637

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	47.5		ug/Kg		95	58 - 139
1,1-Dichloropropene	50.0	48.5		ug/Kg		97	70 - 121
Ethylbenzene	50.0	51.3		ug/Kg		103	70 - 123
Hexachlorobutadiene	50.0	50.8		ug/Kg		102	51 - 150
Isopropylbenzene	50.0	49.3		ug/Kg		99	70 - 126
Methylene Chloride	50.0	48.4		ug/Kg		97	69 - 125
Methyl tert-butyl ether	50.0	44.1		ug/Kg		88	55 - 123
Naphthalene	50.0	47.4		ug/Kg		95	53 - 144
n-Butylbenzene	50.0	46.2		ug/Kg		92	68 - 125
N-Propylbenzene	50.0	48.2		ug/Kg		96	69 - 127
p-Isopropyltoluene	50.0	51.4		ug/Kg		103	70 - 125
sec-Butylbenzene	50.0	48.9		ug/Kg		98	70 - 123
Styrene	50.0	50.3		ug/Kg		101	70 - 120
tert-Butylbenzene	50.0	51.9		ug/Kg		104	70 - 121
1,1,1,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	70 - 125
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	62 - 140
Tetrachloroethene	50.0	53.0		ug/Kg		106	70 - 128
Toluene	50.0	47.2		ug/Kg		94	70 - 125
trans-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	70 - 125
trans-1,3-Dichloropropene	50.0	42.8		ug/Kg		86	62 - 128
1,2,3-Trichlorobenzene	50.0	46.0		ug/Kg		92	51 - 145
1,2,4-Trichlorobenzene	50.0	47.3		ug/Kg		95	57 - 137
1,1,1-Trichloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,1,2-Trichloroethane	50.0	47.9		ug/Kg		96	71 - 130
Trichloroethene	50.0	54.4		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	45.2		ug/Kg		90	55 - 128
1,2,3-Trichloropropane	50.0	47.9		ug/Kg		96	50 - 133
1,2,4-Trimethylbenzene	50.0	48.1		ug/Kg		96	70 - 123
1,3,5-Trimethylbenzene	50.0	49.1		ug/Kg		98	70 - 123
Vinyl chloride	50.0	47.4		ug/Kg		95	64 - 126
Xylenes, Total	100	96.9		ug/Kg		97	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane (Surr)	*100*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*89*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 500-544879/1-A
Matrix: Solid
Analysis Batch: 544888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 544879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		05/28/20 19:43	05/29/20 01:27	1
PCB-1221	<7.3		17	7.3	ug/Kg		05/28/20 19:43	05/29/20 01:27	1
PCB-1232	<7.3		17	7.3	ug/Kg		05/28/20 19:43	05/29/20 01:27	1
PCB-1242	<5.5		17	5.5	ug/Kg		05/28/20 19:43	05/29/20 01:27	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 500-544879/1-A
Matrix: Solid
Analysis Batch: 544888

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 544879

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<6.6		17	6.6	ug/Kg		05/28/20 19:43	05/29/20 01:27	1
PCB-1254	<3.6		17	3.6	ug/Kg		05/28/20 19:43	05/29/20 01:27	1
PCB-1260	<8.2		17	8.2	ug/Kg		05/28/20 19:43	05/29/20 01:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*92*		*49 - 129*	*05/28/20 19:43*	*05/29/20 01:27*	*1*
DCB Decachlorobiphenyl	*101*		*37 - 121*	*05/28/20 19:43*	*05/29/20 01:27*	*1*

Lab Sample ID: LCS 500-544879/2-A
Matrix: Solid
Analysis Batch: 544888

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 544879

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	161		ug/Kg		97	57 - 120
PCB-1260	167	158		ug/Kg		95	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*94*		*49 - 129*
DCB Decachlorobiphenyl	*100*		*37 - 121*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-544615/1-A
Matrix: Solid
Analysis Batch: 544815

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 544615

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Barium	<0.11		1.0	0.11	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Cadmium	0.0642	J	0.20	0.036	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Chromium	<0.50		1.0	0.50	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Lead	<0.23		0.50	0.23	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Selenium	<0.59		1.0	0.59	mg/Kg		05/27/20 17:55	05/28/20 10:40	1
Silver	<0.13		0.50	0.13	mg/Kg		05/27/20 17:55	05/28/20 10:40	1

Lab Sample ID: LCS 500-544615/2-A
Matrix: Solid
Analysis Batch: 544815

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 544615

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.07		mg/Kg		91	80 - 120
Barium	200	187		mg/Kg		93	80 - 120
Cadmium	5.00	4.63		mg/Kg		93	80 - 120
Chromium	20.0	19.0		mg/Kg		95	80 - 120
Lead	10.0	8.97		mg/Kg		90	80 - 120
Selenium	10.0	8.68		mg/Kg		87	80 - 120
Silver	5.00	4.34		mg/Kg		87	80 - 120

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-545267/12-A
Matrix: Solid
Analysis Batch: 545493

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 545267

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		06/01/20 14:15	06/02/20 07:02	1

Lab Sample ID: LCS 500-545267/13-A
Matrix: Solid
Analysis Batch: 545493

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 545267

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.167	0.163		mg/Kg		98	80 - 120		

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: I-43 Phase 2.5 - 341633

Job ID: 500-182479-1

Client Sample ID: Waypoint 9 (2-4')

Lab Sample ID: 500-182479-1

Date Collected: 05/21/20 09:25

Matrix: Solid

Date Received: 05/22/20 09:25

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	544339	05/26/20 13:49	LWN	TAL CHI

Client Sample ID: Waypoint 9 (2-4')

Lab Sample ID: 500-182479-1

Date Collected: 05/21/20 09:25

Matrix: Solid

Date Received: 05/22/20 09:25

Percent Solids: 90.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			544151	05/21/20 09:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	545637	06/03/20 11:26	JDD	TAL CHI
Total/NA	Prep	3541			544879	05/28/20 19:43	JP1	TAL CHI
Total/NA	Analysis	8082A		1	544888	05/29/20 06:04	BJH	TAL CHI
Total/NA	Prep	3050B			544615	05/27/20 17:55	BDE	TAL CHI
Total/NA	Analysis	6010C		1	544815	05/28/20 10:48	JEF	TAL CHI
Total/NA	Prep	7471B			545267	06/01/20 14:15	MJG	TAL CHI
Total/NA	Analysis	7471B		1	545493	06/02/20 07:54	MJG	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Job ID: 500-182479-1
Project/Site: I-43 Phase 2.5 - 341633

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: Ted O'Connell
Company: TRC
Address:
Address:
Phone: 608-630-6710
Fax:
E-Mail: toconnell@trcompanies.com

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

500-182479 COC

Chain of Custody Record

Lab Job #: 500-182479
Chain of Custody Number:
Page _____ of _____
Temperature °C of Cooler: 2.1

Client	Client Project #	Preservative		8	8	8	8	8	8	8	8
TRC/WisDOT	341633										
Project Name		Parameter									
I-43 Phase 2.5											
Project Location/State	Lab Project #										
Glendale, WI											
Sampler	Lab PM										
Alia Enright				VOCs	PCBs	PAHs	RCRA Metals	Pesticides	Mercury	Ignitability, flashpoint, pH, specific gravity	reactive cyanide, reactive sulfide

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix										Comments
1		Waypoint 9 (2-4')	5/21/20	9:25	2	SO	X	X		X						

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Alia Enright	TRC	5/21/20	10:30	Stephanie Hernandez	TA-CHI	5/22/20	0925
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped X
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments
Prioritize analysis of PCBs for 4-oz glass vial. If enough sample remains, then analyze for metals.

Lab Comments:

TAL-4124-500 (1209)

6/8/2020


ORIGIN ID:RRLA (608) 572-3845
ALIA ENRIGHT
TRC
150 N PATRICK BLVD, SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US
SHIP DATE: 21MAY20
ACTWGT: 31.40 LB
CAD: 110326482/INET4220
BILL RECIPIENT
TO ATTN: SAMPLE RECEIVING
TEST AMERICA - CHICAGO
2417 BOND ST
UNIVERSITY PARK IL 60484
(708) 534-5200
REF 341633
500-182479 Wayt
INV
PO
DEPT
FedEx Express
FRI - 22 MAY 10:30A
PRIORITY OVERNIGHT
TRK# 0201 7705 1863 3411
60484
ORD
IL-US
79 JOTA

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-182479-1

Login Number: 182479
List Number: 1
Creator: Hernandez, Stephanie

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-183647-1
Client Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

For:
TRC Environmental Corporation.
708 Heartland Trail
Madison, Wisconsin 53717

Attn: Ted O'Connell

Authorized for release by:
7/1/2020 3:11:09 PM
Diana Mockler, Project Manager I
(219)252-7570
diana.mockler@testamericainc.com

Designee for

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Job ID: 500-183647-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-183647-1

Comments
No additional comments.

Receipt
The samples were received on 6/17/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-01 — Lab Sample ID: 500-183647-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	48		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.23		0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	18		1.1	0.57	mg/Kg	1	☼	6010C	Total/NA
Lead	35		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.038		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-02 — Lab Sample ID: 500-183647-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	42		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.26		0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	19		1.1	0.57	mg/Kg	1	☼	6010C	Total/NA
Lead	120		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.033		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-03 — Lab Sample ID: 500-183647-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	41		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	18		1.1	0.56	mg/Kg	1	☼	6010C	Total/NA
Lead	98		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-04 — Lab Sample ID: 500-183647-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		1.3	0.44	mg/Kg	1	☼	6010C	Total/NA
Barium	41		1.3	0.15	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.25	0.046	mg/Kg	1	☼	6010C	Total/NA
Chromium	16		1.3	0.63	mg/Kg	1	☼	6010C	Total/NA
Lead	19		0.64	0.29	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035		0.021	0.0071	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-05 — Lab Sample ID: 500-183647-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	54		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.30		0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	20		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	110		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.029		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-06 — Lab Sample ID: 500-183647-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		1.1	0.38	mg/Kg	1	☼	6010C	Total/NA
Barium	45		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.21	J	0.22	0.040	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Client Sample ID: SS-P-06 (Continued) — Lab Sample ID: 500-183647-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	19		1.1	0.55	mg/Kg	1	☼	6010C	Total/NA
Lead	76		0.55	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.033		0.018	0.0059	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-07 — Lab Sample ID: 500-183647-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.7		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	59		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.22	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	20		1.1	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	110		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.033		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-08 — Lab Sample ID: 500-183647-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	51		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.18	J	0.22	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	21		1.1	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	21		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.029		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-09 — Lab Sample ID: 500-183647-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	46		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22		0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	20		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	86		0.53	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.031		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-10 — Lab Sample ID: 500-183647-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		0.99	0.34	mg/Kg	1	☼	6010C	Total/NA
Barium	55		0.99	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.20		0.20	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	22		0.99	0.49	mg/Kg	1	☼	6010C	Total/NA
Lead	26		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.032		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: SS-P-11 — Lab Sample ID: 500-183647-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	52		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.24		0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	18		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	26		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-12

Lab Sample ID: 500-183647-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	46		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.22	J	0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	19		1.1	0.57	mg/Kg	1	☼	6010C	Total/NA
Lead	39		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.027		0.021	0.0069	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Method	Method Description	Protocol	Laboratory
6010C	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-183647-1	SS-P-01	Solid	06/16/20 14:30	06/17/20 10:00	
500-183647-2	SS-P-02	Solid	06/15/20 08:45	06/17/20 10:00	
500-183647-3	SS-P-03	Solid	06/15/20 09:05	06/17/20 10:00	
500-183647-4	SS-P-04	Solid	06/15/20 09:45	06/17/20 10:00	
500-183647-5	SS-P-05	Solid	06/15/20 10:15	06/17/20 10:00	
500-183647-6	SS-P-06	Solid	06/15/20 10:30	06/17/20 10:00	
500-183647-7	SS-P-07	Solid	06/15/20 10:55	06/17/20 10:00	
500-183647-8	SS-P-08	Solid	06/16/20 10:38	06/17/20 10:00	
500-183647-9	SS-P-09	Solid	06/15/20 11:40	06/17/20 10:00	
500-183647-10	SS-P-10	Solid	06/15/20 12:00	06/17/20 10:00	
500-183647-11	SS-P-11	Solid	06/15/20 12:30	06/17/20 10:00	
500-183647-12	SS-P-12	Solid	06/15/20 15:00	06/17/20 10:00	

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-01
Date Collected: 06/16/20 14:30
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-1
Matrix: Solid
Percent Solids: 79.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.1**		1.1	0.39	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Barium	**48**		1.1	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Cadmium	**0.23**		0.23	0.041	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Chromium	**18**		1.1	0.57	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Lead	**35**		0.57	0.26	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	06/26/20 18:41	06/29/20 09:03	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.019	0.0065	mg/Kg	☼	06/30/20 13:55	07/01/20 07:41	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-02
Date Collected: 06/15/20 08:45
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-2
Matrix: Solid
Percent Solids: 83.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		1.1	0.39	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Barium	**42**		1.1	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Cadmium	**0.26**		0.23	0.041	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Chromium	**19**		1.1	0.57	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Lead	**120**		0.57	0.26	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	06/26/20 18:41	06/29/20 09:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0065	mg/Kg	☼	06/30/20 13:55	07/01/20 07:43	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-03
Date Collected: 06/15/20 09:05
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-3
Matrix: Solid
Percent Solids: 84.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.1**		1.1	0.39	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Barium	**41**		1.1	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Cadmium	**0.18**	**J**	0.23	0.041	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Chromium	**18**		1.1	0.56	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Lead	**98**		0.57	0.26	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	06/26/20 18:41	06/29/20 09:11	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.019	0.0063	mg/Kg	☼	06/30/20 13:55	07/01/20 07:49	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-04
Date Collected: 06/15/20 09:45
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-4
Matrix: Solid
Percent Solids: 74.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		1.3	0.44	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Barium	41		1.3	0.15	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Cadmium	0.18	J	0.25	0.046	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Chromium	16		1.3	0.63	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Lead	19		0.64	0.29	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Selenium	<0.75		1.3	0.75	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1
Silver	<0.16		0.64	0.16	mg/Kg	☼	06/26/20 18:41	06/29/20 09:23	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.021	0.0071	mg/Kg	☼	06/30/20 13:55	07/01/20 07:51	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-05
Date Collected: 06/15/20 10:15
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-5
Matrix: Solid
Percent Solids: 85.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		1.0	0.35	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Barium	54		1.0	0.12	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Cadmium	0.30		0.21	0.037	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Chromium	20		1.0	0.51	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Lead	110		0.51	0.24	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:27	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.029		0.019	0.0063	mg/Kg	☼	06/30/20 13:55	07/01/20 07:54	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-06
Date Collected: 06/15/20 10:30
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-6
Matrix: Solid
Percent Solids: 86.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.1	0.38	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Barium	**45**		1.1	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Cadmium	**0.21**	**J**	0.22	0.040	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Chromium	**19**		1.1	0.55	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Lead	**76**		0.55	0.26	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	06/26/20 18:41	06/29/20 09:31	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.018	0.0059	mg/Kg	☼	06/30/20 13:55	07/01/20 07:56	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-07
Date Collected: 06/15/20 10:55
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-7
Matrix: Solid
Percent Solids: 85.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.7**		1.1	0.37	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Barium	**59**		1.1	0.12	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Cadmium	**0.24**		0.22	0.039	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Chromium	**20**		1.1	0.54	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Lead	**110**		0.54	0.25	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	06/26/20 18:41	06/29/20 09:35	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.018	0.0060	mg/Kg	☼	06/30/20 13:55	07/01/20 07:58	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-08
Date Collected: 06/16/20 10:38
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-8
Matrix: Solid
Percent Solids: 84.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.3**		1.1	0.37	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Barium	**51**		1.1	0.12	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Cadmium	**0.18**	**J**	0.22	0.039	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Chromium	**21**		1.1	0.54	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Lead	**21**		0.54	0.25	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	06/26/20 18:41	06/29/20 09:39	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.019	0.0062	mg/Kg	☼	06/30/20 13:55	07/01/20 08:00	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-09
Date Collected: 06/15/20 11:40
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-9
Matrix: Solid
Percent Solids: 87.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.9**		1.1	0.36	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Barium	**46**		1.1	0.12	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Cadmium	**0.22**		0.21	0.038	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Chromium	**20**		1.1	0.52	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Lead	**86**		0.53	0.24	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	06/26/20 18:41	06/29/20 09:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.018	0.0060	mg/Kg	☼	06/30/20 13:55	07/01/20 08:02	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-10
Date Collected: 06/15/20 12:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-10
Matrix: Solid
Percent Solids: 84.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.7**		0.99	0.34	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Barium	**55**		0.99	0.11	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Cadmium	**0.20**		0.20	0.036	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Chromium	**22**		0.99	0.49	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Lead	**26**		0.49	0.23	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1
Silver	<0.13		0.49	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.019	0.0062	mg/Kg	☼	06/30/20 13:55	07/01/20 08:04	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-11
Date Collected: 06/15/20 12:30
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-11
Matrix: Solid
Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		1.0	0.35	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Barium	52		1.0	0.12	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Cadmium	0.24		0.21	0.037	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Chromium	18		1.0	0.51	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Lead	26		0.52	0.24	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:50	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.018	0.0061	mg/Kg	☼	06/30/20 13:55	07/01/20 08:06	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-12

Date Collected: 06/15/20 15:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-12

Matrix: Solid
Percent Solids: 73.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.1	0.39	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Barium	**46**		1.1	0.13	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Cadmium	**0.22**	**J**	0.23	0.041	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Chromium	**19**		1.1	0.57	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Lead	**39**		0.57	0.26	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Selenium	<0.67		1.1	0.67	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	06/26/20 18:41	06/29/20 09:54	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.027**		0.021	0.0069	mg/Kg	☼	06/30/20 13:55	07/01/20 08:08	1

Definitions/Glossary

Client: TRC Environmental Corporation. Job ID: 500-183647-1
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Prep Batch: 549670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183647-1	SS-P-01	Total/NA	Solid	3050B	
500-183647-2	SS-P-02	Total/NA	Solid	3050B	
500-183647-3	SS-P-03	Total/NA	Solid	3050B	
500-183647-4	SS-P-04	Total/NA	Solid	3050B	
500-183647-5	SS-P-05	Total/NA	Solid	3050B	
500-183647-6	SS-P-06	Total/NA	Solid	3050B	
500-183647-7	SS-P-07	Total/NA	Solid	3050B	
500-183647-8	SS-P-08	Total/NA	Solid	3050B	
500-183647-9	SS-P-09	Total/NA	Solid	3050B	
500-183647-10	SS-P-10	Total/NA	Solid	3050B	
500-183647-11	SS-P-11	Total/NA	Solid	3050B	
500-183647-12	SS-P-12	Total/NA	Solid	3050B	
MB 500-549670/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-549670/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 549893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183647-1	SS-P-01	Total/NA	Solid	6010C	549670
500-183647-2	SS-P-02	Total/NA	Solid	6010C	549670
500-183647-3	SS-P-03	Total/NA	Solid	6010C	549670
500-183647-4	SS-P-04	Total/NA	Solid	6010C	549670
500-183647-5	SS-P-05	Total/NA	Solid	6010C	549670
500-183647-6	SS-P-06	Total/NA	Solid	6010C	549670
500-183647-7	SS-P-07	Total/NA	Solid	6010C	549670
500-183647-8	SS-P-08	Total/NA	Solid	6010C	549670
500-183647-9	SS-P-09	Total/NA	Solid	6010C	549670
500-183647-10	SS-P-10	Total/NA	Solid	6010C	549670
500-183647-11	SS-P-11	Total/NA	Solid	6010C	549670
500-183647-12	SS-P-12	Total/NA	Solid	6010C	549670
MB 500-549670/1-A	Method Blank	Total/NA	Solid	6010C	549670
LCS 500-549670/2-A	Lab Control Sample	Total/NA	Solid	6010C	549670

Prep Batch: 550090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183647-1	SS-P-01	Total/NA	Solid	7471B	
500-183647-2	SS-P-02	Total/NA	Solid	7471B	
500-183647-3	SS-P-03	Total/NA	Solid	7471B	
500-183647-4	SS-P-04	Total/NA	Solid	7471B	
500-183647-5	SS-P-05	Total/NA	Solid	7471B	
500-183647-6	SS-P-06	Total/NA	Solid	7471B	
500-183647-7	SS-P-07	Total/NA	Solid	7471B	
500-183647-8	SS-P-08	Total/NA	Solid	7471B	
500-183647-9	SS-P-09	Total/NA	Solid	7471B	
500-183647-10	SS-P-10	Total/NA	Solid	7471B	
500-183647-11	SS-P-11	Total/NA	Solid	7471B	
500-183647-12	SS-P-12	Total/NA	Solid	7471B	
MB 500-550090/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-550090/13-A	Lab Control Sample	Total/NA	Solid	7471B	

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Metals

Analysis Batch: 550340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183647-1	SS-P-01	Total/NA	Solid	7471B	550090
500-183647-2	SS-P-02	Total/NA	Solid	7471B	550090
500-183647-3	SS-P-03	Total/NA	Solid	7471B	550090
500-183647-4	SS-P-04	Total/NA	Solid	7471B	550090
500-183647-5	SS-P-05	Total/NA	Solid	7471B	550090
500-183647-6	SS-P-06	Total/NA	Solid	7471B	550090
500-183647-7	SS-P-07	Total/NA	Solid	7471B	550090
500-183647-8	SS-P-08	Total/NA	Solid	7471B	550090
500-183647-9	SS-P-09	Total/NA	Solid	7471B	550090
500-183647-10	SS-P-10	Total/NA	Solid	7471B	550090
500-183647-11	SS-P-11	Total/NA	Solid	7471B	550090
500-183647-12	SS-P-12	Total/NA	Solid	7471B	550090
MB 500-550090/12-A	Method Blank	Total/NA	Solid	7471B	550090
LCS 500-550090/13-A	Lab Control Sample	Total/NA	Solid	7471B	550090

General Chemistry

Analysis Batch: 549625

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-183647-1	SS-P-01	Total/NA	Solid	Moisture	
500-183647-2	SS-P-02	Total/NA	Solid	Moisture	
500-183647-3	SS-P-03	Total/NA	Solid	Moisture	
500-183647-4	SS-P-04	Total/NA	Solid	Moisture	
500-183647-5	SS-P-05	Total/NA	Solid	Moisture	
500-183647-6	SS-P-06	Total/NA	Solid	Moisture	
500-183647-7	SS-P-07	Total/NA	Solid	Moisture	
500-183647-8	SS-P-08	Total/NA	Solid	Moisture	
500-183647-9	SS-P-09	Total/NA	Solid	Moisture	
500-183647-10	SS-P-10	Total/NA	Solid	Moisture	
500-183647-11	SS-P-11	Total/NA	Solid	Moisture	
500-183647-12	SS-P-12	Total/NA	Solid	Moisture	
500-183647-6 DU	SS-P-06	Total/NA	Solid	Moisture	

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-549670/1-A
Matrix: Solid
Analysis Batch: 549893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 549670

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Barium	<0.11		1.0	0.11	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Cadmium	<0.036		0.20	0.036	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Chromium	<0.50		1.0	0.50	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Lead	<0.23		0.50	0.23	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Selenium	<0.59		1.0	0.59	mg/Kg		06/26/20 18:41	06/29/20 08:55	1
Silver	0.132	J	0.50	0.13	mg/Kg		06/26/20 18:41	06/29/20 08:55	1

Lab Sample ID: LCS 500-549670/2-A
Matrix: Solid
Analysis Batch: 549893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 549670

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.37		mg/Kg		94	80 - 120
Barium	200	187		mg/Kg		93	80 - 120
Cadmium	5.00	4.59		mg/Kg		92	80 - 120
Chromium	20.0	19.1		mg/Kg		96	80 - 120
Lead	10.0	9.52		mg/Kg		95	80 - 120
Selenium	10.0	8.62		mg/Kg		86	80 - 120
Silver	5.00	4.61		mg/Kg		92	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-550090/12-A
Matrix: Solid
Analysis Batch: 550340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 550090

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		06/30/20 13:55	07/01/20 07:37	1

Lab Sample ID: LCS 500-550090/13-A
Matrix: Solid
Analysis Batch: 550340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 550090

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.156		mg/Kg		93	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-183647-1
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Client Sample ID: SS-P-01
Lab Sample ID: 500-183647-1
Date Collected: 06/16/20 14:30
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-01
Lab Sample ID: 500-183647-1
Date Collected: 06/16/20 14:30
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:03	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:41	MJG	TAL CHI

Client Sample ID: SS-P-02
Lab Sample ID: 500-183647-2
Date Collected: 06/15/20 08:45
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-02
Lab Sample ID: 500-183647-2
Date Collected: 06/15/20 08:45
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:07	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:43	MJG	TAL CHI

Client Sample ID: SS-P-03
Lab Sample ID: 500-183647-3
Date Collected: 06/15/20 09:05
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-03
Lab Sample ID: 500-183647-3
Date Collected: 06/15/20 09:05
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:11	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:49	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Job ID: 500-183647-1
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Client Sample ID: SS-P-04
Lab Sample ID: 500-183647-4
Date Collected: 06/15/20 09:45
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-04
Lab Sample ID: 500-183647-4
Date Collected: 06/15/20 09:45
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:23	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:51	MJG	TAL CHI

Client Sample ID: SS-P-05
Lab Sample ID: 500-183647-5
Date Collected: 06/15/20 10:15
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-05
Lab Sample ID: 500-183647-5
Date Collected: 06/15/20 10:15
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:27	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:54	MJG	TAL CHI

Client Sample ID: SS-P-06
Lab Sample ID: 500-183647-6
Date Collected: 06/15/20 10:30
Matrix: Solid
Date Received: 06/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-06
Lab Sample ID: 500-183647-6
Date Collected: 06/15/20 10:30
Matrix: Solid
Date Received: 06/17/20 10:00
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:31	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:56	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-07
Date Collected: 06/15/20 10:55
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-07
Date Collected: 06/15/20 10:55
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-7
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:35	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 07:58	MJG	TAL CHI

Client Sample ID: SS-P-08
Date Collected: 06/16/20 10:38
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-08
Date Collected: 06/16/20 10:38
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-8
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:39	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 08:00	MJG	TAL CHI

Client Sample ID: SS-P-09
Date Collected: 06/15/20 11:40
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-09
Date Collected: 06/15/20 11:40
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-9
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:42	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 08:02	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Client Sample ID: SS-P-10
Date Collected: 06/15/20 12:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-10
Date Collected: 06/15/20 12:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-10
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:46	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 08:04	MJG	TAL CHI

Client Sample ID: SS-P-11
Date Collected: 06/15/20 12:30
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-11
Date Collected: 06/15/20 12:30
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-11
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:50	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 08:06	MJG	TAL CHI

Client Sample ID: SS-P-12
Date Collected: 06/15/20 15:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	549625	06/26/20 14:36	LWN	TAL CHI

Client Sample ID: SS-P-12
Date Collected: 06/15/20 15:00
Date Received: 06/17/20 10:00

Lab Sample ID: 500-183647-12
Matrix: Solid
Percent Solids: 73.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			549670	06/26/20 18:41	BDE	TAL CHI
Total/NA	Analysis	6010C		1	549893	06/29/20 09:54	JEF	TAL CHI
Total/NA	Prep	7471B			550090	06/30/20 13:55	MJG	TAL CHI
Total/NA	Analysis	7471B		1	550340	07/01/20 08:08	MJG	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Job ID: 500-183647-1

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. Job ID: 500-183647-1
Project/Site: WisDOT I-43 Ph. 2.5 341633.0000

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-20

Chain of Custody Record

392962

eurofins | Environment Testing TestAmerica

Address: _____

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

+6/16/20

TAL-8210

Client Contact	Project Manager: Ted O'Connell	Site Contact: Alia Enright	Date: 6/15/2020	COC No:
Company Name: TRC/WisDOT	Tel/Email: toconnell@trcsolutions.com	Lab Contact:	Carrier:	1 of 1 COCs
Address: Capitol Drive to Hampton Ave (I-43)	Analysis Turnaround Time			Sampler: Alia Enright
City/State/Zip: Milwaukee, WI	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 608-572-3845	TAT if different from Below 10-day			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: I-43 Ph. 2.5	☐ 1 week			
Site: I-43 (Capitol Dr. to Hampton Ave)	☐ 2 days			Job / SDG No.: 500-183647
P O #	☐ 1 day		500-183647 COC	

	Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	RKI 8	Sample Specific Notes:
1	SS-P-01 6/16/20 14:30	6/15/2020	~~08:15~~	G	S	1	N	N	X	
2	SS-P-02	6/15/2020	08:45							
3	SS-P-03		09:05							
4	SS-P-04		09:45							
5	SS-P-05		10:15							
6	SS-P-06		10:30							
7	SS-P-07		10:55							
8	SS-P-08 6/16/20 10:38	ACC	~~11:30~~							
9	SS-P-09		11:40							
10	SS-P-10		12:00							
11	SS-P-11		12:30							
12	SS-P-12	↓	15:00	↓	↓	↓	↓	↓	↓	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
If metals concentrations exceed 20x rule, we may want TCLP of that particular metal as well.

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: 3.9 Corr'd: _____ Therm ID No.: _____		
Relinquished by: Alia Enright (TRC)	Company: TRC	Date/Time: 6/16/20 15:00	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Stephanie Hermanden	Company: TA-CHI	Date/Time: 6/17/20 1000


ORIGIN ID:MKEA (608) 572-3845
ALIA ENRIGHT
150 N PATRICK BLVD STE 180
BROOKFIELD, WI 53045
UNITED STATES US
SHIP DATE: 16JUN20
ACTWGT: 33.35 LB
CAD: 6992783/SSF02110
DIMS: 24x14x13 IN
BILL THIRD PARTY
TO SANDIE FREDERICK
2417 BOND STREET
UNIVERSITY PARK IL 60484
(000) 000-0000
REF:
INV:
PO:
DEPT:
FedEx
Express
500-183647 Wayb
TRK# 0201 3939 2529 2949
WED - 17 JUN 10:30A
PRIORITY OVERNIGHT
AHS
60484
IL-US ORD
79 JOTA
4894.

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-183647-1

Login Number: 183647 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-186731-1
Client Project/Site: WisDOT I-43 - 341633.0000

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Alia Enright

Authorized for release by:
9/3/2020 11:11:42 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Job ID: 500-186731-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-186731-1

Comments
No additional comments.

Receipt
The samples were received on 8/21/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

GC/MS VOA
Method 8260B: The extraction LCS associated with preparation batch 558110 had several analytes recoveries above control limits. The instrument LCS associated with analytical batch 558189 was biased high for Carbon tetrachloride and 1,1,1-Trichloroethane; therefore re-analysis was not performed. The data have been reported and qualified. B-1 0-2 (500-186731-1), B-2 0-2 (500-186731-2), B-3 2-4 (500-186731-3), B-4 2-4 (500-186731-4), B-5 0-2 (500-186731-5), B-6 2-4 (500-186731-6), B-6 6-8 (500-186731-7), B-7 2-4 (500-186731-8), B-7 8-10 (500-186731-9), B-8 0-2 (500-186731-10), B-8 6-8 (500-186731-11), Trip Blank (500-186731-12), (LCS 500-558110/22-A) and (LCS 500-558189/16)

Method 8260B: The method blank for analytical batch 558189 contained Chloroform above the Method detection limit (MDL) but below reporting limit (RL). Chloroform was non-detect in the samples: therefore, no re-analysis was done and the data has been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method WI-DRO: The method blank for preparation batch 500-559026 and analytical batch 500-559449 contained WI Diesel Range Organics (C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-1 0-2

Lab Sample ID: 500-186731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	52	J	82	9.9	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	61	J	82	7.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	100		40	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	79		40	5.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	290		40	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	1100		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	1400		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	2400		40	8.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	470		40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	800		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	1400		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	150		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	2600		40	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	92		40	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	490		40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	69		40	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	1300		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	2300		40	8.0	ug/Kg	1	☼	8270D	Total/NA
Arsenic	7.1		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	91		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.96	B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	52		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	520		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.19		0.018	0.0061	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-2 0-2

Lab Sample ID: 500-186731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	59	J	78	9.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	73	J	78	7.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	13	J	38	7.0	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	18	J	38	5.1	ug/Kg	1	☼	8270D	Total/NA
Anthracene	41		38	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	240		38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	230		38	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	350		38	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	100		38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	210		38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	260		38	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	23	J	38	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	570		38	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	12	J	38	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	88		38	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	49		38	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	240		38	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	360		38	7.7	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	1.3	J	2.0	0.68	mg/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	42	B	3.7	1.5	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	8.4		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	110		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.85	B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-2 0-2 (Continued) — Lab Sample ID: 500-186731-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium	32		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	200		0.53	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.17		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-3 2-4 — Lab Sample ID: 500-186731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	190		34	15	ug/Kg	50	☼	8260B	Total/NA
1-Methylnaphthalene	84		78	9.5	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	94		78	7.1	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	9.6	J	38	7.0	ug/Kg	1	☼	8270D	Total/NA
Anthracene	21	J	38	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	110		38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130		38	7.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	240		38	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	54		38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	85		38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	150		38	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	15	J	38	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	280		38	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluorene	11	J	38	5.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	42		38	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	52		38	6.0	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	190		38	5.4	ug/Kg	1	☼	8270D	Total/NA
Pyrene	190		38	7.7	ug/Kg	1	☼	8270D	Total/NA
Arsenic	16		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	1400		5.4	0.62	mg/Kg	5	☼	6010C	Total/NA
Cadmium	2.5	B	0.22	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	200		1.1	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	4500		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.2		1.1	0.64	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.10		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-4 2-4 — Lab Sample ID: 500-186731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	130		81	9.8	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	140		81	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	26	J	40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	21	J	40	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	26	J	40	8.7	ug/Kg	1	☼	8270D	Total/NA
Chrysene	30	J	40	11	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	39	J	40	7.4	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	10	J	40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	80		40	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	98		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	27	J	40	8.0	ug/Kg	1	☼	8270D	Total/NA
WI Gasoline Range Organics (C5-C10)	1.1	J	2.1	0.71	mg/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	32	B	4.0	1.6	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	13		1.2	0.41	mg/Kg	1	☼	6010C	Total/NA
Barium	97		1.2	0.14	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-4 2-4 (Continued) — Lab Sample ID: 500-186731-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.44	B	0.24	0.043	mg/Kg	1	☼	6010C	Total/NA
Chromium	14		1.2	0.59	mg/Kg	1	☼	6010C	Total/NA
Lead	37		0.59	0.27	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.5		1.2	0.70	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.061		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-5 0-2 — Lab Sample ID: 500-186731-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	35	J	81	9.8	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	50	J	81	7.4	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	21	J	40	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	18	J	40	5.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	59		40	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	220		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	310		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	500		40	8.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	130		40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	180		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	290		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	42		40	7.8	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	580		40	7.5	ug/Kg	1	☼	8270D	Total/NA
Fluorene	17	J	40	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	110		40	10	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	38	J	40	6.2	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	280		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	570		40	8.0	ug/Kg	1	☼	8270D	Total/NA
Arsenic	12		1.1	0.39	mg/Kg	1	☼	6010C	Total/NA
Barium	330		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	2.5	B	0.23	0.041	mg/Kg	1	☼	6010C	Total/NA
Chromium	140		1.1	0.57	mg/Kg	1	☼	6010C	Total/NA
Lead	1800		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA
Selenium	2.5		1.1	0.67	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.35		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-6 2-4 — Lab Sample ID: 500-186731-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	13	J	36	4.8	ug/Kg	1	☼	8270D	Total/NA
Anthracene	12	J	36	6.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	81		36	4.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	92		36	7.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	130		36	7.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	50		36	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	43		36	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	83		36	9.9	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	9.2	J	36	7.0	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	170		36	6.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	41		36	9.4	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	55		36	5.1	ug/Kg	1	☼	8270D	Total/NA
Pyrene	110		36	7.2	ug/Kg	1	☼	8270D	Total/NA
Arsenic	5.6		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-6 2-4 (Continued)

Lab Sample ID: 500-186731-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	36		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.35	B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	16		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	16		0.53	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.024		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-6 6-8

Lab Sample ID: 500-186731-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzo[a]anthracene	32	J	38	5.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	38		38	7.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	50		38	8.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	19	J	38	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	25	J	38	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	39		38	10	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	84		38	7.1	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	21	J	38	9.9	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	27	J	38	5.3	ug/Kg	1	☼	8270D	Total/NA
Pyrene	51		38	7.6	ug/Kg	1	☼	8270D	Total/NA
Arsenic	7.0		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	45		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.37	B	0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	18		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA
Lead	18		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.028		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-7 2-4

Lab Sample ID: 500-186731-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	7.2	J	39	5.2	ug/Kg	1	☼	8270D	Total/NA
Anthracene	13	J	39	6.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	97		39	5.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	110		39	7.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	150		39	8.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	51		39	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	51		39	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	100		39	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	17	J	39	7.6	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	220		39	7.3	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.2	J	39	5.5	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	50		39	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	70		39	5.5	ug/Kg	1	☼	8270D	Total/NA
Pyrene	150		39	7.8	ug/Kg	1	☼	8270D	Total/NA
WI Diesel Range Organics (C10-C28)	9.0	B	4.0	1.6	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	6.1		1.0	0.35	mg/Kg	1	☼	6010C	Total/NA
Barium	73		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.50	B	0.20	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	20		1.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Lead	58		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.038		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-7 8-10 — Lab Sample ID: 500-186731-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthene	7.2	J	40	7.2	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	6.6	J	40	5.3	ug/Kg	1	☼	8270D	Total/NA
Anthracene	22	J	40	6.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	120		40	5.4	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	130		40	7.7	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	190		40	8.6	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	77		40	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	75		40	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	120		40	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	15	J	40	7.7	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	280		40	7.4	ug/Kg	1	☼	8270D	Total/NA
Fluorene	7.0	J	40	5.6	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	68		40	10	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	88		40	5.6	ug/Kg	1	☼	8270D	Total/NA
Pyrene	180		40	7.9	ug/Kg	1	☼	8270D	Total/NA
Arsenic	7.2		1.1	0.38	mg/Kg	1	☼	6010C	Total/NA
Barium	59		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.46	B	0.22	0.040	mg/Kg	1	☼	6010C	Total/NA
Chromium	21		1.1	0.55	mg/Kg	1	☼	6010C	Total/NA
Lead	53		0.56	0.26	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.039		0.019	0.0064	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-8 0-2 — Lab Sample ID: 500-186731-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acenaphthylene	5.5	J	37	4.9	ug/Kg	1	☼	8270D	Total/NA
Anthracene	11	J	37	6.3	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	83		37	5.0	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	95		37	7.2	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	130		37	8.1	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	44		37	12	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	56		37	11	ug/Kg	1	☼	8270D	Total/NA
Chrysene	88		37	10	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	8.9	J	37	7.2	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	170		37	6.9	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	44		37	9.7	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	46		37	5.2	ug/Kg	1	☼	8270D	Total/NA
Pyrene	130		37	7.4	ug/Kg	1	☼	8270D	Total/NA
Arsenic	8.5		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	63		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.47	B	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	19		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	49		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035		0.017	0.0058	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-8 6-8 — Lab Sample ID: 500-186731-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		1.0	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	27		1.0	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.31	B	0.21	0.037	mg/Kg	1	☼	6010C	Total/NA
Chromium	14		1.0	0.51	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 6-8 (Continued) — Lab Sample ID: 500-186731-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.022		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-186731-12

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
5035	Closed System Purge and Trap	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI
WI DRO PREP	Wisconsin Extraction (Diesel Range Organics)	WI-DRO	TAL CHI
WI GRO	Closed System Purge and Trap	WI-GRO	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-186731-1	B-1 0-2	Solid	08/20/20 09:00	08/21/20 09:45	
500-186731-2	B-2 0-2	Solid	08/20/20 09:20	08/21/20 09:45	
500-186731-3	B-3 2-4	Solid	08/20/20 09:30	08/21/20 09:45	
500-186731-4	B-4 2-4	Solid	08/20/20 09:45	08/21/20 09:45	
500-186731-5	B-5 0-2	Solid	08/20/20 10:00	08/21/20 09:45	
500-186731-6	B-6 2-4	Solid	08/20/20 11:10	08/21/20 09:45	
500-186731-7	B-6 6-8	Solid	08/20/20 11:15	08/21/20 09:45	
500-186731-8	B-7 2-4	Solid	08/20/20 11:35	08/21/20 09:45	
500-186731-9	B-7 8-10	Solid	08/20/20 11:45	08/21/20 09:45	
500-186731-10	B-8 0-2	Solid	08/20/20 12:05	08/21/20 09:45	
500-186731-11	B-8 6-8	Solid	08/20/20 12:15	08/21/20 09:45	
500-186731-12	Trip Blank	Solid	08/20/20 00:00	08/21/20 09:45	

Client Sample ID: B-1 0-2

Date Collected: 08/20/20 09:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-1

Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
Ethylbenzene	<13		18	13	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
Naphthalene	<24		71	24	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
Toluene	<10		18	10	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50
Xylenes, Total	<16		35	16	ug/Kg	☼	08/20/20 09:00	08/27/20 13:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*08/20/20 09:00*	*08/27/20 13:55*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*08/20/20 09:00*	*08/27/20 13:55*	*50*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*	*08/20/20 09:00*	*08/27/20 13:55*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 09:00*	*08/27/20 13:55*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**52**	**J**	82	9.9	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
2-Methylnaphthalene	**61**	**J**	82	7.4	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Acenaphthene	**100**		40	7.3	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Acenaphthylene	**79**		40	5.3	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Anthracene	**290**		40	6.8	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Benzo[a]anthracene	**1100**		40	5.4	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Benzo[a]pyrene	**1400**		40	7.8	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Benzo[b]fluoranthene	**2400**		40	8.7	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Benzo[g,h,i]perylene	**470**		40	13	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Benzo[k]fluoranthene	**800**		40	12	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Chrysene	**1400**		40	11	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Dibenz(a,h)anthracene	**150**		40	7.8	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Fluoranthene	**2600**		40	7.5	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Fluorene	**92**		40	5.7	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Indeno[1,2,3-cd]pyrene	**490**		40	10	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Naphthalene	**69**		40	6.2	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Phenanthrene	**1300**		40	5.6	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1
Pyrene	**2300**		40	8.0	ug/Kg	☼	08/31/20 16:53	09/02/20 20:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*08/31/20 16:53*	*09/02/20 20:08*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*08/31/20 16:53*	*09/02/20 20:08*	*1*
Terphenyl-d14 (Surr)	*102*		*42 - 157*	*08/31/20 16:53*	*09/02/20 20:08*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.1**		1.1	0.36	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Barium	**91**		1.1	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Cadmium	**0.96**	**B**	0.21	0.038	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Chromium	**52**		1.1	0.53	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Lead	**520**		0.53	0.25	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:11	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-1 0-2
Date Collected: 08/20/20 09:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-1
Matrix: Solid
Percent Solids: 81.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.19		0.018	0.0061	mg/Kg	☼	08/31/20 13:20	09/01/20 07:23	1

Client Sample ID: B-2 0-2

Date Collected: 08/20/20 09:20
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-2

Matrix: Solid
Percent Solids: 85.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.9		17	9.9	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
Naphthalene	<23		68	23	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
Toluene	<9.9		17	9.9	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50
Xylenes, Total	<15		34	15	ug/Kg	☼	08/20/20 09:20	08/27/20 14:22	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*08/20/20 09:20*	*08/27/20 14:22*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*08/20/20 09:20*	*08/27/20 14:22*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*08/20/20 09:20*	*08/27/20 14:22*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*08/20/20 09:20*	*08/27/20 14:22*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**59**	**J**	78	9.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
2-Methylnaphthalene	**73**	**J**	78	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Acenaphthene	**13**	**J**	38	7.0	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Acenaphthylene	**18**	**J**	38	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Anthracene	**41**		38	6.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Benzo[a]anthracene	**240**		38	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Benzo[a]pyrene	**230**		38	7.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Benzo[b]fluoranthene	**350**		38	8.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Benzo[g,h,i]perylene	**100**		38	12	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Benzo[k]fluoranthene	**210**		38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Chrysene	**260**		38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Dibenz(a,h)anthracene	**23**	**J**	38	7.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Fluoranthene	**570**		38	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Fluorene	**12**	**J**	38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Indeno[1,2,3-cd]pyrene	**88**		38	10	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Naphthalene	**49**		38	6.0	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Phenanthrene	**240**		38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1
Pyrene	**360**		38	7.7	ug/Kg	☼	08/31/20 16:53	09/01/20 15:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*90*		*43 - 145*	*08/31/20 16:53*	*09/01/20 15:12*	*1*
Nitrobenzene-d5 (Surr)	*66*		*37 - 147*	*08/31/20 16:53*	*09/01/20 15:12*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*08/31/20 16:53*	*09/01/20 15:12*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1.3**	**J**	2.0	0.68	mg/Kg	☼	08/20/20 09:20	08/28/20 04:14	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**42**	**B**	3.7	1.5	mg/Kg	☼	08/28/20 12:22	09/01/20 14:03	1

Client Sample ID: B-2 0-2
Date Collected: 08/20/20 09:20
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-2
Matrix: Solid
Percent Solids: 85.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*74*		*44 - 148*	*08/28/20 12:22*	*09/01/20 14:03*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		1.1	0.36	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Barium	**110**		1.1	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Cadmium	**0.85**	**B**	0.21	0.038	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Chromium	**32**		1.1	0.52	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Lead	**200**		0.53	0.24	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:15	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.17**		0.019	0.0064	mg/Kg	☼	08/31/20 13:20	09/01/20 07:25	1

Client Sample ID: B-3 2-4

Date Collected: 08/20/20 09:30
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-3

Matrix: Solid
Percent Solids: 84.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		17	10	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
Naphthalene	<23		68	23	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
Toluene	<10		17	10	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50
Xylenes, Total	**190**		34	15	ug/Kg	☼	08/20/20 09:30	08/27/20 14:49	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*	*08/20/20 09:30*	*08/27/20 14:49*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*08/20/20 09:30*	*08/27/20 14:49*	*50*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*	*08/20/20 09:30*	*08/27/20 14:49*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 09:30*	*08/27/20 14:49*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**84**		78	9.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
2-Methylnaphthalene	**94**		78	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Acenaphthene	**9.6**	**J**	38	7.0	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Anthracene	**21**	**J**	38	6.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Benzo[a]anthracene	**110**		38	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Benzo[a]pyrene	**130**		38	7.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Benzo[b]fluoranthene	**240**		38	8.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Benzo[g,h,i]perylene	**54**		38	12	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Benzo[k]fluoranthene	**85**		38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Chrysene	**150**		38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Dibenz(a,h)anthracene	**15**	**J**	38	7.5	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Fluoranthene	**280**		38	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Fluorene	**11**	**J**	38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Indeno[1,2,3-cd]pyrene	**42**		38	10	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Naphthalene	**52**		38	6.0	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Phenanthrene	**190**		38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1
Pyrene	**190**		38	7.7	ug/Kg	☼	08/31/20 16:53	09/01/20 15:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*08/31/20 16:53*	*09/01/20 15:39*	*1*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*08/31/20 16:53*	*09/01/20 15:39*	*1*
Terphenyl-d14 (Surr)	*86*		*42 - 157*	*08/31/20 16:53*	*09/01/20 15:39*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**16**		1.1	0.37	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1
Barium	**1400**		5.4	0.62	mg/Kg	☼	08/28/20 18:17	09/01/20 02:13	5
Cadmium	**2.5**	**B**	0.22	0.039	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1
Chromium	**200**		1.1	0.54	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1
Lead	**4500**		0.54	0.25	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1
Selenium	**1.2**		1.1	0.64	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:19	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-3 2-4
Date Collected: 08/20/20 09:30
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-3
Matrix: Solid
Percent Solids: 84.9

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.10		0.019	0.0063	mg/Kg	☼	08/31/20 13:20	09/01/20 07:27	1

Client Sample ID: B-4 2-4

Date Collected: 08/20/20 09:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-4

Matrix: Solid
Percent Solids: 82.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
Ethylbenzene	<13		18	13	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
Methyl tert-butyl ether	<28		71	28	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
Naphthalene	<24		71	24	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
Toluene	<10		18	10	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
1,2,4-Trimethylbenzene	<25		71	25	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
1,3,5-Trimethylbenzene	<27		71	27	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50
Xylenes, Total	<16		36	16	ug/Kg	☼	08/20/20 09:45	08/27/20 15:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*08/20/20 09:45*	*08/27/20 15:15*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*08/20/20 09:45*	*08/27/20 15:15*	*50*
1,2-Dichloroethane-d4 (Surr)	*115*		*75 - 126*	*08/20/20 09:45*	*08/27/20 15:15*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 09:45*	*08/27/20 15:15*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**130**		81	9.8	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
2-Methylnaphthalene	**140**		81	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Acenaphthene	<7.2		40	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Acenaphthylene	<5.3		40	5.3	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Anthracene	<6.7		40	6.7	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Benzo[a]anthracene	**26**	**J**	40	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Benzo[a]pyrene	**21**	**J**	40	7.8	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Benzo[b]fluoranthene	**26**	**J**	40	8.7	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Benzo[g,h,i]perylene	<13		40	13	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Benzo[k]fluoranthene	<12		40	12	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Chrysene	**30**	**J**	40	11	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Dibenz(a,h)anthracene	<7.8		40	7.8	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Fluoranthene	**39**	**J**	40	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Fluorene	<5.6		40	5.6	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Indeno[1,2,3-cd]pyrene	**10**	**J**	40	10	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Naphthalene	**80**		40	6.2	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Phenanthrene	**98**		40	5.6	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1
Pyrene	**27**	**J**	40	8.0	ug/Kg	☼	08/31/20 16:53	09/01/20 11:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*08/31/20 16:53*	*09/01/20 11:08*	*1*
Nitrobenzene-d5 (Surr)	*56*		*37 - 147*	*08/31/20 16:53*	*09/01/20 11:08*	*1*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*08/31/20 16:53*	*09/01/20 11:08*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1.1**	**J**	2.1	0.71	mg/Kg	☼	08/20/20 09:45	08/28/20 04:49	50

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**32**	**B**	4.0	1.6	mg/Kg	☼	08/28/20 12:22	09/01/20 14:29	1

Client Sample ID: B-4 2-4

Date Collected: 08/20/20 09:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-4

Matrix: Solid
Percent Solids: 82.5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*77*		*44 - 148*	*08/28/20 12:22*	*09/01/20 14:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		1.2	0.41	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Barium	**97**		1.2	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Cadmium	**0.44**	**B**	0.24	0.043	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Chromium	**14**		1.2	0.59	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Lead	**37**		0.59	0.27	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Selenium	**1.5**		1.2	0.70	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1
Silver	<0.15		0.59	0.15	mg/Kg	☼	08/28/20 18:17	08/31/20 02:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.061**		0.019	0.0064	mg/Kg	☼	08/31/20 13:20	09/01/20 07:29	1

Client Sample ID: B-5 0-2

Date Collected: 08/20/20 10:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-5

Matrix: Solid
Percent Solids: 80.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
Ethylbenzene	<14		19	14	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
Methyl tert-butyl ether	<29		74	29	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
Naphthalene	<25		74	25	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
Toluene	<11		19	11	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
1,2,4-Trimethylbenzene	<27		74	27	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
1,3,5-Trimethylbenzene	<28		74	28	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50
Xylenes, Total	<16		37	16	ug/Kg	☼	08/20/20 10:00	08/27/20 15:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*08/20/20 10:00*	*08/27/20 15:42*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*08/20/20 10:00*	*08/27/20 15:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*116*		*75 - 126*	*08/20/20 10:00*	*08/27/20 15:42*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*	*08/20/20 10:00*	*08/27/20 15:42*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**35**	**J**	81	9.8	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
2-Methylnaphthalene	**50**	**J**	81	7.4	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Acenaphthene	**21**	**J**	40	7.3	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Acenaphthylene	**18**	**J**	40	5.3	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Anthracene	**59**		40	6.7	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Benzo[a]anthracene	**220**		40	5.4	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Benzo[a]pyrene	**310**		40	7.8	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Benzo[b]fluoranthene	**500**		40	8.7	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Benzo[g,h,i]perylene	**130**		40	13	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Benzo[k]fluoranthene	**180**		40	12	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Chrysene	**290**		40	11	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Dibenz(a,h)anthracene	**42**		40	7.8	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Fluoranthene	**580**		40	7.5	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Fluorene	**17**	**J**	40	5.7	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Indeno[1,2,3-cd]pyrene	**110**		40	10	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Naphthalene	**38**	**J**	40	6.2	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Phenanthrene	**280**		40	5.6	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1
Pyrene	**570**		40	8.0	ug/Kg	☼	08/31/20 16:53	09/02/20 21:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*08/31/20 16:53*	*09/02/20 21:06*	*1*
Nitrobenzene-d5 (Surr)	*79*		*37 - 147*	*08/31/20 16:53*	*09/02/20 21:06*	*1*
Terphenyl-d14 (Surr)	*120*		*42 - 157*	*08/31/20 16:53*	*09/02/20 21:06*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**12**		1.1	0.39	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Barium	**330**		1.1	0.13	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Cadmium	**2.5**	**B**	0.23	0.041	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Chromium	**140**		1.1	0.57	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Lead	**1800**		0.57	0.26	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Selenium	**2.5**		1.1	0.67	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1
Silver	<0.15		0.57	0.15	mg/Kg	☼	08/28/20 18:17	08/31/20 02:28	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-5 0-2
Date Collected: 08/20/20 10:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-5
Matrix: Solid
Percent Solids: 80.7

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.35		0.019	0.0064	mg/Kg	☼	08/31/20 13:20	09/01/20 07:31	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 2-4
Date Collected: 08/20/20 11:10
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-6
Matrix: Solid
Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<8.6		15	8.6	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Bromobenzene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Bromochloromethane	<25	*	59	25	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Bromodichloromethane	<22		59	22	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Bromoform	<29		59	29	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Bromomethane	<47		180	47	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Carbon tetrachloride	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Chlorobenzene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Chloroethane	<30		59	30	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Chloroform	<22		120	22	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Chloromethane	<19	*	59	19	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
2-Chlorotoluene	<19		59	19	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
4-Chlorotoluene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
cis-1,2-Dichloroethene	<24		59	24	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
cis-1,3-Dichloropropene	<25		59	25	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Dibromochloromethane	<29		59	29	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2-Dibromo-3-Chloropropane	<120	*	300	120	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2-Dibromoethane	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Dibromomethane	<16	*	59	16	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2-Dichlorobenzene	<20		59	20	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,3-Dichlorobenzene	<24		59	24	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,4-Dichlorobenzene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Dichlorodifluoromethane	<40		180	40	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1-Dichloroethane	<24		59	24	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2-Dichloroethane	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1-Dichloroethene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2-Dichloropropane	<25		59	25	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,3-Dichloropropane	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
2,2-Dichloropropane	<26		59	26	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1-Dichloropropene	<18		59	18	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Ethylbenzene	<11		15	11	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Hexachlorobutadiene	<26		59	26	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Isopropylbenzene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Isopropyl ether	<16		59	16	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Methylene Chloride	<96		300	96	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Methyl tert-butyl ether	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Naphthalene	<20		59	20	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
n-Butylbenzene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
N-Propylbenzene	<24		59	24	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
p-Isopropyltoluene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
sec-Butylbenzene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Styrene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
tert-Butylbenzene	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1,1,2-Tetrachloroethane	<27		59	27	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1,2,2-Tetrachloroethane	<23		59	23	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Tetrachloroethene	<22		59	22	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Toluene	<8.7		15	8.7	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
trans-1,2-Dichloroethene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
trans-1,3-Dichloropropene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 2-4
Date Collected: 08/20/20 11:10
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-6
Matrix: Solid
Percent Solids: 91.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<27		59	27	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2,4-Trichlorobenzene	<20		59	20	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1,1-Trichloroethane	<22	*	59	22	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,1,2-Trichloroethane	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Trichloroethene	<9.7	*	30	9.7	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Trichlorofluoromethane	<25		59	25	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2,3-Trichloropropane	<24	*	120	24	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,2,4-Trimethylbenzene	<21		59	21	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
1,3,5-Trimethylbenzene	<22		59	22	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Vinyl chloride	<15		59	15	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50
Xylenes, Total	<13		30	13	ug/Kg	☼	08/20/20 11:10	08/27/20 16:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*08/20/20 11:10*	*08/27/20 16:09*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*08/20/20 11:10*	*08/27/20 16:09*	*50*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*	*08/20/20 11:10*	*08/27/20 16:09*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 11:10*	*08/27/20 16:09*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Acenaphthylene	**13**	**J**	36	4.8	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Anthracene	**12**	**J**	36	6.1	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Benzo[a]anthracene	**81**		36	4.9	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Benzo[a]pyrene	**92**		36	7.0	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Benzo[b]fluoranthene	**130**		36	7.8	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Benzo[g,h,i]perylene	**50**		36	12	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Benzo[k]fluoranthene	**43**		36	11	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Chrysene	**83**		36	9.9	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Dibenz(a,h)anthracene	**9.2**	**J**	36	7.0	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Fluoranthene	**170**		36	6.7	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Indeno[1,2,3-cd]pyrene	**41**		36	9.4	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Phenanthrene	**55**		36	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1
Pyrene	**110**		36	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 11:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*92*		*43 - 145*	*08/31/20 16:53*	*09/01/20 11:35*	*1*
Nitrobenzene-d5 (Surr)	*69*		*37 - 147*	*08/31/20 16:53*	*09/01/20 11:35*	*1*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*08/31/20 16:53*	*09/01/20 11:35*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		1.1	0.36	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1
Barium	**36**		1.1	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1
Cadmium	**0.35**	**B**	0.21	0.038	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1
Chromium	**16**		1.1	0.52	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 2-4
Date Collected: 08/20/20 11:10
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-6
Matrix: Solid
Percent Solids: 91.2

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		0.53	0.24	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.024**		0.017	0.0057	mg/Kg	☼	08/31/20 13:20	09/01/20 07:38	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 6-8
Date Collected: 08/20/20 11:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-7
Matrix: Solid
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.9		17	9.9	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Bromobenzene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Bromochloromethane	<29	*	67	29	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Bromoform	<33		67	33	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Bromomethane	<54		200	54	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Chlorobenzene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Chloroethane	<34		67	34	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Chloroform	<25		130	25	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Chloromethane	<22	*	67	22	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
4-Chlorotoluene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
cis-1,2-Dichloroethene	<28		67	28	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Dibromochloromethane	<33		67	33	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2-Dibromo-3-Chloropropane	<130	*	340	130	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Dibromomethane	<18	*	67	18	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2-Dichlorobenzene	<23		67	23	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,4-Dichlorobenzene	<25		67	25	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Dichlorodifluoromethane	<45		200	45	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1-Dichloroethane	<28		67	28	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Isopropyl ether	<19		67	19	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Methylene Chloride	<110		340	110	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Methyl tert-butyl ether	<27		67	27	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Naphthalene	<23		67	23	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
sec-Butylbenzene	<27		67	27	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Styrene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Toluene	<9.9		17	9.9	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
trans-1,2-Dichloroethene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 6-8

Date Collected: 08/20/20 11:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-7

Matrix: Solid
Percent Solids: 85.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1,1-Trichloroethane	<26	*	67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Trichloroethene	<11	*	34	11	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2,3-Trichloropropane	<28	*	130	28	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
1,3,5-Trimethylbenzene	<26		67	26	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Vinyl chloride	<18		67	18	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50
Xylenes, Total	<15		34	15	ug/Kg	☼	08/20/20 11:15	08/27/20 16:36	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*08/20/20 11:15*	*08/27/20 16:36*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*08/20/20 11:15*	*08/27/20 16:36*	*50*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*	*08/20/20 11:15*	*08/27/20 16:36*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*08/20/20 11:15*	*08/27/20 16:36*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.4		77	9.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
2-Methylnaphthalene	<7.1		77	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Anthracene	<6.4		38	6.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Benzo[a]anthracene	**32**	**J**	38	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Benzo[a]pyrene	**38**		38	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Benzo[b]fluoranthene	**50**		38	8.3	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Benzo[g,h,i]perylene	**19**	**J**	38	12	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Benzo[k]fluoranthene	**25**	**J**	38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Chrysene	**39**		38	10	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Fluoranthene	**84**		38	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Indeno[1,2,3-cd]pyrene	**21**	**J**	38	9.9	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Phenanthrene	**27**	**J**	38	5.3	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1
Pyrene	**51**		38	7.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*86*		*43 - 145*	*08/31/20 16:53*	*09/01/20 12:02*	*1*
Nitrobenzene-d5 (Surr)	*61*		*37 - 147*	*08/31/20 16:53*	*09/01/20 12:02*	*1*
Terphenyl-d14 (Surr)	*97*		*42 - 157*	*08/31/20 16:53*	*09/01/20 12:02*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		1.0	0.35	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1
Barium	**45**		1.0	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1
Cadmium	**0.37**	**B**	0.21	0.037	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1
Chromium	**18**		1.0	0.51	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 6-8
Date Collected: 08/20/20 11:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-7
Matrix: Solid
Percent Solids: 85.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		0.52	0.24	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	08/28/20 18:17	08/31/20 02:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.019	0.0064	mg/Kg	☼	08/31/20 13:20	09/01/20 07:39	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-7 2-4
Date Collected: 08/20/20 11:35
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-8
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		17	10	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Bromobenzene	<24		68	24	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Bromochloromethane	<29	*	68	29	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Bromoform	<33		68	33	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Bromomethane	<54		200	54	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Chlorobenzene	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Chloroethane	<34		68	34	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Chloroform	<25		140	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Chloromethane	<22	*	68	22	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2-Dibromo-3-Chloropropane	<140	*	340	140	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Dibromomethane	<18	*	68	18	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Dichlorodifluoromethane	<46		200	46	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1-Dichloroethene	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Ethylbenzene	<12		17	12	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Isopropyl ether	<19		68	19	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Methylene Chloride	<110		340	110	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Naphthalene	<23		68	23	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
sec-Butylbenzene	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Styrene	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1,1,2-Tetrachloroethane	<32		68	32	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Toluene	<10		17	10	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50

Client Sample ID: B-7 2-4
Date Collected: 08/20/20 11:35
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-8
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1,1-Trichloroethane	<26	*	68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Trichloroethene	<11	*	34	11	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2,3-Trichloropropane	<28	*	140	28	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Vinyl chloride	<18		68	18	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50
Xylenes, Total	<15		34	15	ug/Kg	☼	08/20/20 11:35	08/27/20 17:03	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*08/20/20 11:35*	*08/27/20 17:03*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*08/20/20 11:35*	*08/27/20 17:03*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*08/20/20 11:35*	*08/27/20 17:03*	*50*
Toluene-d8 (Surr)	*93*		*75 - 120*	*08/20/20 11:35*	*08/27/20 17:03*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.6		79	9.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
2-Methylnaphthalene	<7.2		79	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Acenaphthene	<7.0		39	7.0	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Acenaphthylene	**7.2**	**J**	39	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Anthracene	**13**	**J**	39	6.5	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Benzo[a]anthracene	**97**		39	5.3	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Benzo[a]pyrene	**110**		39	7.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Benzo[b]fluoranthene	**150**		39	8.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Benzo[g,h,i]perylene	**51**		39	13	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Benzo[k]fluoranthene	**51**		39	12	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Chrysene	**100**		39	11	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Dibenz(a,h)anthracene	**17**	**J**	39	7.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Fluoranthene	**220**		39	7.3	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Fluorene	**7.2**	**J**	39	5.5	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Indeno[1,2,3-cd]pyrene	**50**		39	10	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Naphthalene	<6.0		39	6.0	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Phenanthrene	**70**		39	5.5	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1
Pyrene	**150**		39	7.8	ug/Kg	☼	08/31/20 16:53	09/01/20 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*78*		*43 - 145*	*08/31/20 16:53*	*09/01/20 12:29*	*1*
Nitrobenzene-d5 (Surr)	*57*		*37 - 147*	*08/31/20 16:53*	*09/01/20 12:29*	*1*
Terphenyl-d14 (Surr)	*90*		*42 - 157*	*08/31/20 16:53*	*09/01/20 12:29*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.68		2.0	0.68	mg/Kg	☼	08/20/20 11:35	08/28/20 05:23	50

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-7 2-4
Date Collected: 08/20/20 11:35
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-8
Matrix: Solid
Percent Solids: 84.7

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	9.0	B	4.0	1.6	mg/Kg	☼	08/28/20 12:22	09/01/20 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*82*		*44 - 148*	*08/28/20 12:22*	*09/01/20 14:55*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		1.0	0.35	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Barium	73		1.0	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Cadmium	0.50	B	0.20	0.037	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Chromium	20		1.0	0.50	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Lead	58		0.51	0.24	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	08/28/20 18:17	08/31/20 02:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.038		0.019	0.0063	mg/Kg	☼	08/31/20 13:20	09/01/20 07:47	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-7 8-10
Date Collected: 08/20/20 11:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-9
Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<10		18	10	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Bromobenzene	<25		70	25	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Bromochloromethane	<30	*	70	30	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Bromodichloromethane	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Bromoform	<34		70	34	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Bromomethane	<56		210	56	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Carbon tetrachloride	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Chlorobenzene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Chloroethane	<36		70	36	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Chloroform	<26		140	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Chloromethane	<23	*	70	23	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
2-Chlorotoluene	<22		70	22	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
4-Chlorotoluene	<25		70	25	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
cis-1,2-Dichloroethene	<29		70	29	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Dibromochloromethane	<34		70	34	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2-Dibromo-3-Chloropropane	<140	*	350	140	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2-Dibromoethane	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Dibromomethane	<19	*	70	19	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2-Dichlorobenzene	<24		70	24	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,4-Dichlorobenzene	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Dichlorodifluoromethane	<47		210	47	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1-Dichloroethane	<29		70	29	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2-Dichloroethane	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1-Dichloroethene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2-Dichloropropane	<30		70	30	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,3-Dichloropropane	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
2,2-Dichloropropane	<31		70	31	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1-Dichloropropene	<21		70	21	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Ethylbenzene	<13		18	13	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Hexachlorobutadiene	<31		70	31	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Isopropylbenzene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Isopropyl ether	<19		70	19	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Methylene Chloride	<110		350	110	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Naphthalene	<24		70	24	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
n-Butylbenzene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
N-Propylbenzene	<29		70	29	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
p-Isopropyltoluene	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
sec-Butylbenzene	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Styrene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1,1,2-Tetrachloroethane	<33		70	33	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Tetrachloroethene	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Toluene	<10		18	10	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
trans-1,2-Dichloroethene	<25		70	25	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
trans-1,3-Dichloropropene	<26		70	26	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50

Client Sample ID: B-7 8-10
Date Collected: 08/20/20 11:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-9
Matrix: Solid
Percent Solids: 82.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1,1-Trichloroethane	<27	*	70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Trichloroethene	<12	*	35	12	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Trichlorofluoromethane	<30		70	30	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2,3-Trichloropropane	<29	*	140	29	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
1,3,5-Trimethylbenzene	<27		70	27	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Vinyl chloride	<18		70	18	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50
Xylenes, Total	<16		35	16	ug/Kg	☼	08/20/20 11:45	08/27/20 17:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*08/20/20 11:45*	*08/27/20 17:30*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*08/20/20 11:45*	*08/27/20 17:30*	*50*
1,2-Dichloroethane-d4 (Surr)	*111*		*75 - 126*	*08/20/20 11:45*	*08/27/20 17:30*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*08/20/20 11:45*	*08/27/20 17:30*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.8		81	9.8	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
2-Methylnaphthalene	<7.4		81	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Acenaphthene	**7.2**	**J**	40	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Acenaphthylene	**6.6**	**J**	40	5.3	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Anthracene	**22**	**J**	40	6.7	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Benzo[a]anthracene	**120**		40	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Benzo[a]pyrene	**130**		40	7.7	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Benzo[b]fluoranthene	**190**		40	8.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Benzo[g,h,i]perylene	**77**		40	13	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Benzo[k]fluoranthene	**75**		40	12	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Chrysene	**120**		40	11	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Dibenz(a,h)anthracene	**15**	**J**	40	7.7	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Fluoranthene	**280**		40	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Fluorene	**7.0**	**J**	40	5.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Indeno[1,2,3-cd]pyrene	**68**		40	10	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Naphthalene	<6.1		40	6.1	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Phenanthrene	**88**		40	5.6	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1
Pyrene	**180**		40	7.9	ug/Kg	☼	08/31/20 16:53	09/01/20 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*72*		*43 - 145*	*08/31/20 16:53*	*09/01/20 12:56*	*1*
Nitrobenzene-d5 (Surr)	*52*		*37 - 147*	*08/31/20 16:53*	*09/01/20 12:56*	*1*
Terphenyl-d14 (Surr)	*76*		*42 - 157*	*08/31/20 16:53*	*09/01/20 12:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.38	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1
Barium	**59**		1.1	0.13	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1
Cadmium	**0.46**	**B**	0.22	0.040	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1
Chromium	**21**		1.1	0.55	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-7 8-10
Date Collected: 08/20/20 11:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-9
Matrix: Solid
Percent Solids: 82.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**53**		0.56	0.26	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1
Silver	<0.14		0.56	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 02:56	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.039**		0.019	0.0064	mg/Kg	☼	08/31/20 13:20	09/01/20 07:49	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 0-2
Date Collected: 08/20/20 12:05
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-10
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.1		16	9.1	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Bromobenzene	<22		62	22	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Bromochloromethane	<27	*	62	27	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Bromodichloromethane	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Bromoform	<30		62	30	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Bromomethane	<50		190	50	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Carbon tetrachloride	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Chlorobenzene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Chloroethane	<31		62	31	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Chloroform	<23		120	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Chloromethane	<20	*	62	20	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
2-Chlorotoluene	<20		62	20	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
4-Chlorotoluene	<22		62	22	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
cis-1,2-Dichloroethene	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
cis-1,3-Dichloropropene	<26		62	26	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Dibromochloromethane	<30		62	30	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2-Dibromo-3-Chloropropane	<120	*	310	120	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2-Dibromoethane	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Dibromomethane	<17	*	62	17	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2-Dichlorobenzene	<21		62	21	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,3-Dichlorobenzene	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,4-Dichlorobenzene	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Dichlorodifluoromethane	<42		190	42	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1-Dichloroethane	<26		62	26	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2-Dichloroethane	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1-Dichloroethene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2-Dichloropropane	<27		62	27	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,3-Dichloropropane	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
2,2-Dichloropropane	<28		62	28	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1-Dichloropropene	<19		62	19	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Ethylbenzene	<11		16	11	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Hexachlorobutadiene	<28		62	28	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Isopropylbenzene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Isopropyl ether	<17		62	17	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Methylene Chloride	<100		310	100	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Methyl tert-butyl ether	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Naphthalene	<21		62	21	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
n-Butylbenzene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
N-Propylbenzene	<26		62	26	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
p-Isopropyltoluene	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
sec-Butylbenzene	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Styrene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
tert-Butylbenzene	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1,1,2-Tetrachloroethane	<29		62	29	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1,2,2-Tetrachloroethane	<25		62	25	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Tetrachloroethene	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Toluene	<9.2		16	9.2	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
trans-1,2-Dichloroethene	<22		62	22	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
trans-1,3-Dichloropropene	<23		62	23	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50

Client Sample ID: B-8 0-2
Date Collected: 08/20/20 12:05
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-10
Matrix: Solid
Percent Solids: 88.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<29		62	29	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2,4-Trichlorobenzene	<21		62	21	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1,1-Trichloroethane	<24	*	62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,1,2-Trichloroethane	<22		62	22	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Trichloroethene	<10	*	31	10	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Trichlorofluoromethane	<27		62	27	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2,3-Trichloropropane	<26	*	120	26	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,2,4-Trimethylbenzene	<22		62	22	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
1,3,5-Trimethylbenzene	<24		62	24	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Vinyl chloride	<16		62	16	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50
Xylenes, Total	<14		31	14	ug/Kg	☼	08/20/20 12:05	08/27/20 17:57	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*08/20/20 12:05*	*08/27/20 17:57*	*50*
Dibromofluoromethane (Surr)	*91*		*75 - 120*	*08/20/20 12:05*	*08/27/20 17:57*	*50*
1,2-Dichloroethane-d4 (Surr)	*113*		*75 - 126*	*08/20/20 12:05*	*08/27/20 17:57*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 12:05*	*08/27/20 17:57*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.1		75	9.1	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
2-Methylnaphthalene	<6.9		75	6.9	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Acenaphthene	<6.7		37	6.7	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Acenaphthylene	**5.5**	**J**	37	4.9	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Anthracene	**11**	**J**	37	6.3	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Benzo[a]anthracene	**83**		37	5.0	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Benzo[a]pyrene	**95**		37	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Benzo[b]fluoranthene	**130**		37	8.1	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Benzo[g,h,i]perylene	**44**		37	12	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Benzo[k]fluoranthene	**56**		37	11	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Chrysene	**88**		37	10	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Dibenz(a,h)anthracene	**8.9**	**J**	37	7.2	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Fluoranthene	**170**		37	6.9	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Fluorene	<5.3		37	5.3	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Indeno[1,2,3-cd]pyrene	**44**		37	9.7	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Naphthalene	<5.8		37	5.8	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Phenanthrene	**46**		37	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1
Pyrene	**130**		37	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*65*		*43 - 145*	*08/31/20 16:53*	*09/01/20 13:24*	*1*
Nitrobenzene-d5 (Surr)	*48*		*37 - 147*	*08/31/20 16:53*	*09/01/20 13:24*	*1*
Terphenyl-d14 (Surr)	*74*		*42 - 157*	*08/31/20 16:53*	*09/01/20 13:24*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.5**		1.1	0.37	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1
Barium	**63**		1.1	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1
Cadmium	**0.47**	**B**	0.21	0.038	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1
Chromium	**19**		1.1	0.53	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 0-2
Date Collected: 08/20/20 12:05
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-10
Matrix: Solid
Percent Solids: 88.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**49**		0.53	0.25	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	08/28/20 18:17	08/31/20 03:00	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.035**		0.017	0.0058	mg/Kg	☼	08/31/20 13:20	09/01/20 07:51	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 6-8
Date Collected: 08/20/20 12:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-11
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<9.6		16	9.6	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Bromobenzene	<23		66	23	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Bromodichloromethane	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Bromoform	<32		66	32	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Bromomethane	<52		200	52	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Chlorobenzene	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Chloroethane	<33		66	33	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Chloroform	<24		130	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Chloromethane	<21	*	66	21	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2-Dibromo-3-Chloropropane	<130	*	330	130	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Dibromomethane	<18	*	66	18	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Dichlorodifluoromethane	<44		200	44	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Ethylbenzene	<12		16	12	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Isopropyl ether	<18		66	18	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Methylene Chloride	<110		330	110	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Naphthalene	<22		66	22	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Styrene	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Toluene	<9.7		16	9.7	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50

Client Sample ID: B-8 6-8
Date Collected: 08/20/20 12:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-11
Matrix: Solid
Percent Solids: 85.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1,1-Trichloroethane	<25	*	66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Trichloroethene	<11	*	33	11	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2,3-Trichloropropane	<27	*	130	27	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Vinyl chloride	<17		66	17	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50
Xylenes, Total	<14		33	14	ug/Kg	☼	08/20/20 12:15	08/27/20 18:24	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*08/20/20 12:15*	*08/27/20 18:24*	*50*
Dibromofluoromethane (Surr)	*92*		*75 - 120*	*08/20/20 12:15*	*08/27/20 18:24*	*50*
1,2-Dichloroethane-d4 (Surr)	*114*		*75 - 126*	*08/20/20 12:15*	*08/27/20 18:24*	*50*
Toluene-d8 (Surr)	*91*		*75 - 120*	*08/20/20 12:15*	*08/27/20 18:24*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.4		78	9.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
2-Methylnaphthalene	<7.1		78	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Acenaphthene	<6.9		38	6.9	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Acenaphthylene	<5.1		38	5.1	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Anthracene	<6.4		38	6.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Benzo[a]anthracene	<5.2		38	5.2	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Benzo[a]pyrene	<7.4		38	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Benzo[b]fluoranthene	<8.3		38	8.3	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Benzo[g,h,i]perylene	<12		38	12	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Benzo[k]fluoranthene	<11		38	11	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Chrysene	<10		38	10	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Dibenz(a,h)anthracene	<7.4		38	7.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Fluoranthene	<7.1		38	7.1	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Fluorene	<5.4		38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Indeno[1,2,3-cd]pyrene	<10		38	10	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Naphthalene	<5.9		38	5.9	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Phenanthrene	<5.4		38	5.4	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1
Pyrene	<7.6		38	7.6	ug/Kg	☼	08/31/20 16:53	09/01/20 13:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*62*		*43 - 145*	*08/31/20 16:53*	*09/01/20 13:51*	*1*
Nitrobenzene-d5 (Surr)	*44*		*37 - 147*	*08/31/20 16:53*	*09/01/20 13:51*	*1*
Terphenyl-d14 (Surr)	*79*		*42 - 157*	*08/31/20 16:53*	*09/01/20 13:51*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.9**		1.0	0.36	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1
Barium	**27**		1.0	0.12	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1
Cadmium	**0.31**	**B**	0.21	0.037	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1
Chromium	**14**		1.0	0.51	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 6-8
Date Collected: 08/20/20 12:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-11
Matrix: Solid
Percent Solids: 85.9

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		0.52	0.24	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1
Selenium	<0.61		1.0	0.61	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1
Silver	<0.13		0.52	0.13	mg/Kg	☼	08/28/20 18:17	08/31/20 03:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.022**		0.019	0.0062	mg/Kg	☼	08/31/20 13:20	09/01/20 07:52	1

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: Trip Blank

Date Collected: 08/20/20 00:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Bromobenzene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Bromochloromethane	<21	*	50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Bromodichloromethane	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Bromoform	<24		50	24	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Bromomethane	<40		150	40	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Chlorobenzene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Chloroethane	<25		50	25	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Chloroform	<19		100	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Chloromethane	<16	*	50	16	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Dibromochloromethane	<24		50	24	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2-Dibromo-3-Chloropropane	<100	*	250	100	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2-Dibromoethane	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Dibromomethane	<14	*	50	14	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Isopropylbenzene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Isopropyl ether	<14		50	14	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Methylene Chloride	<82		250	82	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Naphthalene	<17		50	17	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
n-Butylbenzene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
N-Propylbenzene	<21		50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Styrene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Tetrachloroethene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Toluene	<7.4		13	7.4	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: Trip Blank

Date Collected: 08/20/20 00:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-12

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1,1-Trichloroethane	<19	*	50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Trichloroethene	<8.2	*	25	8.2	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2,3-Trichloropropane	<21	*	100	21	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Vinyl chloride	<13		50	13	ug/Kg		08/20/20 00:00	08/27/20 11:14	50
Xylenes, Total	<11		25	11	ug/Kg		08/20/20 00:00	08/27/20 11:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*72 - 124*	*08/20/20 00:00*	*08/27/20 11:14*	*50*
Dibromofluoromethane (Surr)	*90*		*75 - 120*	*08/20/20 00:00*	*08/27/20 11:14*	*50*
1,2-Dichloroethane-d4 (Surr)	*109*		*75 - 126*	*08/20/20 00:00*	*08/27/20 11:14*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*08/20/20 00:00*	*08/27/20 11:14*	*50*

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS VOA

Prep Batch: 558110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	5035	
500-186731-2	B-2 0-2	Total/NA	Solid	WI GRO	
500-186731-3	B-3 2-4	Total/NA	Solid	5035	
500-186731-4	B-4 2-4	Total/NA	Solid	WI GRO	
500-186731-5	B-5 0-2	Total/NA	Solid	5035	
500-186731-6	B-6 2-4	Total/NA	Solid	5035	
500-186731-7	B-6 6-8	Total/NA	Solid	5035	
500-186731-8	B-7 2-4	Total/NA	Solid	WI GRO	
500-186731-9	B-7 8-10	Total/NA	Solid	5035	
500-186731-10	B-8 0-2	Total/NA	Solid	5035	
500-186731-11	B-8 6-8	Total/NA	Solid	5035	
500-186731-12	Trip Blank	Total/NA	Solid	5035	
LB3 500-558110/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-558110/22-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 558189

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-558110/21-A	Method Blank	Total/NA	Solid	8260B	558110
MB 500-558189/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-558110/22-A	Lab Control Sample	Total/NA	Solid	8260B	558110
LCS 500-558189/16	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 558757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	8260B	558110
500-186731-2	B-2 0-2	Total/NA	Solid	8260B	558110
500-186731-3	B-3 2-4	Total/NA	Solid	8260B	558110
500-186731-4	B-4 2-4	Total/NA	Solid	8260B	558110
500-186731-5	B-5 0-2	Total/NA	Solid	8260B	558110
500-186731-6	B-6 2-4	Total/NA	Solid	8260B	558110
500-186731-7	B-6 6-8	Total/NA	Solid	8260B	558110
500-186731-8	B-7 2-4	Total/NA	Solid	8260B	558110
500-186731-9	B-7 8-10	Total/NA	Solid	8260B	558110
500-186731-10	B-8 0-2	Total/NA	Solid	8260B	558110
500-186731-11	B-8 6-8	Total/NA	Solid	8260B	558110
500-186731-12	Trip Blank	Total/NA	Solid	8260B	558110
MB 500-558757/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-558757/4	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Prep Batch: 559319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	3541	
500-186731-2	B-2 0-2	Total/NA	Solid	3541	
500-186731-3	B-3 2-4	Total/NA	Solid	3541	
500-186731-4	B-4 2-4	Total/NA	Solid	3541	
500-186731-5	B-5 0-2	Total/NA	Solid	3541	
500-186731-6	B-6 2-4	Total/NA	Solid	3541	
500-186731-7	B-6 6-8	Total/NA	Solid	3541	
500-186731-8	B-7 2-4	Total/NA	Solid	3541	

GC/MS Semi VOA (Continued)

Prep Batch: 559319 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-9	B-7 8-10	Total/NA	Solid	3541	
500-186731-10	B-8 0-2	Total/NA	Solid	3541	
500-186731-11	B-8 6-8	Total/NA	Solid	3541	
MB 500-559319/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-559319/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 559419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-2	B-2 0-2	Total/NA	Solid	8270D	559319
500-186731-3	B-3 2-4	Total/NA	Solid	8270D	559319
500-186731-4	B-4 2-4	Total/NA	Solid	8270D	559319
500-186731-6	B-6 2-4	Total/NA	Solid	8270D	559319
500-186731-7	B-6 6-8	Total/NA	Solid	8270D	559319
500-186731-8	B-7 2-4	Total/NA	Solid	8270D	559319
500-186731-9	B-7 8-10	Total/NA	Solid	8270D	559319
500-186731-10	B-8 0-2	Total/NA	Solid	8270D	559319
500-186731-11	B-8 6-8	Total/NA	Solid	8270D	559319
MB 500-559319/1-A	Method Blank	Total/NA	Solid	8270D	559319
LCS 500-559319/2-A	Lab Control Sample	Total/NA	Solid	8270D	559319

Analysis Batch: 559681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	8270D	559319
500-186731-5	B-5 0-2	Total/NA	Solid	8270D	559319

GC VOA

Prep Batch: 558110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-2	B-2 0-2	Total/NA	Solid	WI GRO	
500-186731-4	B-4 2-4	Total/NA	Solid	WI GRO	
500-186731-8	B-7 2-4	Total/NA	Solid	WI GRO	
LB3 500-558110/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-558110/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-558110/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 558689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-2	B-2 0-2	Total/NA	Solid	WI-GRO	558110
500-186731-4	B-4 2-4	Total/NA	Solid	WI-GRO	558110
500-186731-8	B-7 2-4	Total/NA	Solid	WI-GRO	558110
LB3 500-558110/21-A	Method Blank	Total/NA	Solid	WI-GRO	558110
LCS 500-558110/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	558110
LCSD 500-558110/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	558110

GC Semi VOA

Prep Batch: 559026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-2	B-2 0-2	Total/NA	Solid	WI DRO PREP	
500-186731-4	B-4 2-4	Total/NA	Solid	WI DRO PREP	
500-186731-8	B-7 2-4	Total/NA	Solid	WI DRO PREP	

GC Semi VOA (Continued)

Prep Batch: 559026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-559026/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-559026/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-559026/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 559449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-2	B-2 0-2	Total/NA	Solid	WI-DRO	559026
500-186731-4	B-4 2-4	Total/NA	Solid	WI-DRO	559026
500-186731-8	B-7 2-4	Total/NA	Solid	WI-DRO	559026
MB 500-559026/1-A	Method Blank	Total/NA	Solid	WI-DRO	559026
LCS 500-559026/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	559026
LCSD 500-559026/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	559026

Metals

Prep Batch: 559071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	3050B	
500-186731-2	B-2 0-2	Total/NA	Solid	3050B	
500-186731-3	B-3 2-4	Total/NA	Solid	3050B	
500-186731-4	B-4 2-4	Total/NA	Solid	3050B	
500-186731-5	B-5 0-2	Total/NA	Solid	3050B	
500-186731-6	B-6 2-4	Total/NA	Solid	3050B	
500-186731-7	B-6 6-8	Total/NA	Solid	3050B	
500-186731-8	B-7 2-4	Total/NA	Solid	3050B	
500-186731-9	B-7 8-10	Total/NA	Solid	3050B	
500-186731-10	B-8 0-2	Total/NA	Solid	3050B	
500-186731-11	B-8 6-8	Total/NA	Solid	3050B	
MB 500-559071/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-559071/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Prep Batch: 559266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	7471B	
500-186731-2	B-2 0-2	Total/NA	Solid	7471B	
500-186731-3	B-3 2-4	Total/NA	Solid	7471B	
500-186731-4	B-4 2-4	Total/NA	Solid	7471B	
500-186731-5	B-5 0-2	Total/NA	Solid	7471B	
500-186731-6	B-6 2-4	Total/NA	Solid	7471B	
500-186731-7	B-6 6-8	Total/NA	Solid	7471B	
500-186731-8	B-7 2-4	Total/NA	Solid	7471B	
500-186731-9	B-7 8-10	Total/NA	Solid	7471B	
500-186731-10	B-8 0-2	Total/NA	Solid	7471B	
500-186731-11	B-8 6-8	Total/NA	Solid	7471B	
MB 500-559266/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-559266/13-A	Lab Control Sample	Total/NA	Solid	7471B	
500-186731-7 MS	B-6 6-8	Total/NA	Solid	7471B	
500-186731-7 MSD	B-6 6-8	Total/NA	Solid	7471B	
500-186731-7 DU	B-6 6-8	Total/NA	Solid	7471B	

Metals

Analysis Batch: 559347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	6010C	559071
500-186731-2	B-2 0-2	Total/NA	Solid	6010C	559071
500-186731-3	B-3 2-4	Total/NA	Solid	6010C	559071
500-186731-4	B-4 2-4	Total/NA	Solid	6010C	559071
500-186731-5	B-5 0-2	Total/NA	Solid	6010C	559071
500-186731-6	B-6 2-4	Total/NA	Solid	6010C	559071
500-186731-7	B-6 6-8	Total/NA	Solid	6010C	559071
500-186731-8	B-7 2-4	Total/NA	Solid	6010C	559071
500-186731-9	B-7 8-10	Total/NA	Solid	6010C	559071
500-186731-10	B-8 0-2	Total/NA	Solid	6010C	559071
500-186731-11	B-8 6-8	Total/NA	Solid	6010C	559071
MB 500-559071/1-A	Method Blank	Total/NA	Solid	6010C	559071
LCS 500-559071/2-A	Lab Control Sample	Total/NA	Solid	6010C	559071

Analysis Batch: 559445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	7471B	559266
500-186731-2	B-2 0-2	Total/NA	Solid	7471B	559266
500-186731-3	B-3 2-4	Total/NA	Solid	7471B	559266
500-186731-4	B-4 2-4	Total/NA	Solid	7471B	559266
500-186731-5	B-5 0-2	Total/NA	Solid	7471B	559266
500-186731-6	B-6 2-4	Total/NA	Solid	7471B	559266
500-186731-7	B-6 6-8	Total/NA	Solid	7471B	559266
500-186731-8	B-7 2-4	Total/NA	Solid	7471B	559266
500-186731-9	B-7 8-10	Total/NA	Solid	7471B	559266
500-186731-10	B-8 0-2	Total/NA	Solid	7471B	559266
500-186731-11	B-8 6-8	Total/NA	Solid	7471B	559266
MB 500-559266/12-A	Method Blank	Total/NA	Solid	7471B	559266
LCS 500-559266/13-A	Lab Control Sample	Total/NA	Solid	7471B	559266
500-186731-7 MS	B-6 6-8	Total/NA	Solid	7471B	559266
500-186731-7 MSD	B-6 6-8	Total/NA	Solid	7471B	559266
500-186731-7 DU	B-6 6-8	Total/NA	Solid	7471B	559266

Analysis Batch: 559535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-3	B-3 2-4	Total/NA	Solid	6010C	559071

General Chemistry

Analysis Batch: 559007

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	Total/NA	Solid	Moisture	
500-186731-2	B-2 0-2	Total/NA	Solid	Moisture	
500-186731-3	B-3 2-4	Total/NA	Solid	Moisture	
500-186731-4	B-4 2-4	Total/NA	Solid	Moisture	
500-186731-5	B-5 0-2	Total/NA	Solid	Moisture	
500-186731-6	B-6 2-4	Total/NA	Solid	Moisture	
500-186731-7	B-6 6-8	Total/NA	Solid	Moisture	
500-186731-8	B-7 2-4	Total/NA	Solid	Moisture	
500-186731-9	B-7 8-10	Total/NA	Solid	Moisture	
500-186731-10	B-8 0-2	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 559007 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-11	B-8 6-8	Total/NA	Solid	Moisture	
500-186731-3 DU	B-3 2-4	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	DCA	TOL
Lab Sample ID	Client Sample ID	(72-124)	(75-120)	(75-126)	(75-120)
500-186731-1	B-1 0-2	92	92	114	91
500-186731-2	B-2 0-2	91	92	113	92
500-186731-3	B-3 2-4	88	91	114	91
500-186731-4	B-4 2-4	92	91	115	91
500-186731-5	B-5 0-2	91	92	116	90
500-186731-6	B-6 2-4	92	91	114	91
500-186731-7	B-6 6-8	93	90	112	93
500-186731-8	B-7 2-4	93	90	113	93
500-186731-9	B-7 8-10	93	91	111	92
500-186731-10	B-8 0-2	93	91	113	91
500-186731-11	B-8 6-8	94	92	114	91
500-186731-12	Trip Blank	91	90	109	92
LB3 500-558110/21-A	Method Blank	114	114	123	95
LCS 500-558110/22-A	Lab Control Sample	114	112	119	96
LCS 500-558189/16	Lab Control Sample	113	114	108	97
LCS 500-558757/4	Lab Control Sample	89	98	110	95
MB 500-558189/6	Method Blank	108	117	117	95
MB 500-558757/6	Method Blank	93	95	112	90

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-186731-1	B-1 0-2	86	79	102
500-186731-2	B-2 0-2	90	66	94
500-186731-3	B-3 2-4	81	61	86
500-186731-4	B-4 2-4	72	56	74
500-186731-5	B-5 0-2	86	79	120
500-186731-6	B-6 2-4	92	69	94
500-186731-7	B-6 6-8	86	61	97
500-186731-8	B-7 2-4	78	57	90
500-186731-9	B-7 8-10	72	52	76
500-186731-10	B-8 0-2	65	48	74
500-186731-11	B-8 6-8	62	44	79
LCS 500-559319/2-A	Lab Control Sample	93	71	82
MB 500-559319/1-A	Method Blank	98	68	98

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Surrogate Summary

Client: TRC Environmental Corporation.
Job ID: 500-186731-1
Project/Site: WisDOT I-43 - 341633.0000

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	C9 (44-148)								
500-186731-2	B-2 0-2	74								
500-186731-4	B-4 2-4	77								
500-186731-8	B-7 2-4	82								
LCS 500-559026/2-A	Lab Control Sample	87								
LCSD 500-559026/3-A	Lab Control Sample Dup	90								
MB 500-559026/1-A	Method Blank	92								

Surrogate Legend

C9 = n-Nonane

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LB3 500-558110/21-A
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558110

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<7.3		13	7.3	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Bromobenzene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Bromochloromethane	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Bromodichloromethane	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Bromoform	<24		50	24	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Bromomethane	<40		150	40	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Carbon tetrachloride	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Chlorobenzene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Chloroethane	<25		50	25	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Chloroform	<19		100	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Chloromethane	<16		50	16	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
2-Chlorotoluene	<16		50	16	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
4-Chlorotoluene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Dibromochloromethane	<24		50	24	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2-Dibromoethane	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Dibromomethane	<14		50	14	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Dichlorodifluoromethane	<34		150	34	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1-Dichloroethane	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2-Dichloroethane	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1-Dichloroethene	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2-Dichloropropane	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,3-Dichloropropane	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
2,2-Dichloropropane	<22		50	22	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1-Dichloropropene	<15		50	15	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Hexachlorobutadiene	<22		50	22	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Isopropylbenzene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Isopropyl ether	<14		50	14	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Methylene Chloride	<82		250	82	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Naphthalene	<17		50	17	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
n-Butylbenzene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
N-Propylbenzene	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
p-Isopropyltoluene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
sec-Butylbenzene	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Styrene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
tert-Butylbenzene	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Tetrachloroethene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Toluene	<7.4		13	7.4	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB3 500-558110/21-A
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558110

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Trichloroethene	<8.2		25	8.2	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Trichlorofluoromethane	<21		50	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2,3-Trichloropropane	<21		100	21	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Vinyl chloride	<13		50	13	ug/Kg		08/22/20 14:30	08/24/20 19:40	50
Xylenes, Total	<11		25	11	ug/Kg		08/22/20 14:30	08/24/20 19:40	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*	*08/22/20 14:30*	*08/24/20 19:40*	*50*
Dibromofluoromethane (Surr)	*114*		*75 - 120*	*08/22/20 14:30*	*08/24/20 19:40*	*50*
1,2-Dichloroethane-d4 (Surr)	*123*		*75 - 126*	*08/22/20 14:30*	*08/24/20 19:40*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*08/22/20 14:30*	*08/24/20 19:40*	*50*

Lab Sample ID: LCS 500-558110/22-A
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	2500	2700		ug/Kg		108	70 - 120
Bromobenzene	2500	2940		ug/Kg		118	70 - 122
Bromochloromethane	2500	3100	*	ug/Kg		124	65 - 122
Bromodichloromethane	2500	3010		ug/Kg		120	69 - 120
Bromoform	2500	3160		ug/Kg		126	56 - 132
Bromomethane	2500	1910		ug/Kg		77	40 - 152
Carbon tetrachloride	2500	3280		ug/Kg		131	59 - 133
Chlorobenzene	2500	2810		ug/Kg		113	70 - 120
Chloroethane	2500	2280		ug/Kg		91	48 - 136
Chloroform	2500	3000		ug/Kg		120	70 - 120
Chloromethane	2500	1380	*	ug/Kg		55	56 - 152
2-Chlorotoluene	2500	2800		ug/Kg		112	70 - 125
4-Chlorotoluene	2500	2860		ug/Kg		114	68 - 124
cis-1,2-Dichloroethene	2500	2800		ug/Kg		112	70 - 125
cis-1,3-Dichloropropene	2500	2570		ug/Kg		103	64 - 127
Dibromochloromethane	2500	2970		ug/Kg		119	68 - 125
1,2-Dibromo-3-Chloropropane	2500	3090	*	ug/Kg		124	56 - 123
1,2-Dibromoethane	2500	2960		ug/Kg		118	70 - 125
Dibromomethane	2500	3090	*	ug/Kg		124	70 - 120
1,2-Dichlorobenzene	2500	2740		ug/Kg		110	70 - 125
1,3-Dichlorobenzene	2500	2810		ug/Kg		112	70 - 125
1,4-Dichlorobenzene	2500	2800		ug/Kg		112	70 - 120
Dichlorodifluoromethane	2500	1610		ug/Kg		64	40 - 159
1,1-Dichloroethane	2500	2580		ug/Kg		103	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-558110/22-A
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558110

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	2500	3120		ug/Kg		125	68 - 127
1,1-Dichloroethene	2500	2620		ug/Kg		105	67 - 122
1,2-Dichloropropane	2500	2490		ug/Kg		100	67 - 130
1,3-Dichloropropane	2500	2760		ug/Kg		110	62 - 136
2,2-Dichloropropane	2500	3140		ug/Kg		126	58 - 139
1,1-Dichloropropene	2500	2980		ug/Kg		119	70 - 121
Ethylbenzene	2500	2730		ug/Kg		109	70 - 123
Hexachlorobutadiene	2500	2550		ug/Kg		102	51 - 150
Isopropylbenzene	2500	2810		ug/Kg		112	70 - 126
Methylene Chloride	2500	2790		ug/Kg		111	69 - 125
Methyl tert-butyl ether	2500	2970		ug/Kg		119	55 - 123
Naphthalene	2500	2780		ug/Kg		111	53 - 144
n-Butylbenzene	2500	2670		ug/Kg		107	68 - 125
N-Propylbenzene	2500	2810		ug/Kg		113	69 - 127
p-Isopropyltoluene	2500	2850		ug/Kg		114	70 - 125
sec-Butylbenzene	2500	2760		ug/Kg		111	70 - 123
Styrene	2500	2860		ug/Kg		114	70 - 120
tert-Butylbenzene	2500	2860		ug/Kg		114	70 - 121
1,1,1,2-Tetrachloroethane	2500	2810		ug/Kg		112	70 - 125
1,1,2,2-Tetrachloroethane	2500	2770		ug/Kg		111	62 - 140
Tetrachloroethene	2500	2730		ug/Kg		109	70 - 128
Toluene	2500	2590		ug/Kg		103	70 - 125
trans-1,2-Dichloroethene	2500	2710		ug/Kg		109	70 - 125
trans-1,3-Dichloropropene	2500	2800		ug/Kg		112	62 - 128
1,2,3-Trichlorobenzene	2500	2570		ug/Kg		103	51 - 145
1,2,4-Trichlorobenzene	2500	2520		ug/Kg		101	57 - 137
1,1,1-Trichloroethane	2500	3160	*	ug/Kg		127	70 - 125
1,1,2-Trichloroethane	2500	2750		ug/Kg		110	71 - 130
Trichloroethene	2500	3180	*	ug/Kg		127	70 - 125
Trichlorofluoromethane	2500	2930		ug/Kg		117	55 - 128
1,2,3-Trichloropropane	2500	3380	*	ug/Kg		135	50 - 133
1,2,4-Trimethylbenzene	2500	2800		ug/Kg		112	70 - 123
1,3,5-Trimethylbenzene	2500	2810		ug/Kg		112	70 - 123
Vinyl chloride	2500	1860		ug/Kg		74	64 - 126
Xylenes, Total	5000	5270		ug/Kg		105	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*72 - 124*
Dibromofluoromethane (Surr)	*112*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*119*		*75 - 126*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-558189/6
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/24/20 10:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-558189/6
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/24/20 10:34	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/24/20 10:34	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/24/20 10:34	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/24/20 10:34	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/24/20 10:34	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/24/20 10:34	1
Chloroform	0.711	J	2.0	0.37	ug/Kg			08/24/20 10:34	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/24/20 10:34	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/24/20 10:34	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/24/20 10:34	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/24/20 10:34	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/24/20 10:34	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/24/20 10:34	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/24/20 10:34	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/24/20 10:34	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/24/20 10:34	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/24/20 10:34	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/24/20 10:34	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/24/20 10:34	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/24/20 10:34	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/24/20 10:34	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/24/20 10:34	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/24/20 10:34	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/24/20 10:34	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/24/20 10:34	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/24/20 10:34	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/24/20 10:34	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/24/20 10:34	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/24/20 10:34	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/24/20 10:34	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/24/20 10:34	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/24/20 10:34	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/24/20 10:34	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/24/20 10:34	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/24/20 10:34	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/24/20 10:34	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/24/20 10:34	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/24/20 10:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-558189/6
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/24/20 10:34	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/24/20 10:34	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/24/20 10:34	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/24/20 10:34	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/24/20 10:34	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/24/20 10:34	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/24/20 10:34	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/24/20 10:34	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/24/20 10:34	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/24/20 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*72 - 124*		*08/24/20 10:34*	*1*
Dibromofluoromethane (Surr)	*117*		*75 - 120*		*08/24/20 10:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*75 - 126*		*08/24/20 10:34*	*1*
Toluene-d8 (Surr)	*95*		*75 - 120*		*08/24/20 10:34*	*1*

Lab Sample ID: LCS 500-558189/16
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.0		ug/Kg		98	70 - 120
Bromobenzene	50.0	51.2		ug/Kg		102	70 - 122
Bromochloromethane	50.0	56.1		ug/Kg		112	65 - 122
Bromodichloromethane	50.0	51.2		ug/Kg		102	69 - 120
Bromoform	50.0	50.1		ug/Kg		100	56 - 132
Bromomethane	50.0	40.9		ug/Kg		82	40 - 152
Carbon tetrachloride	50.0	69.1	*	ug/Kg		138	59 - 133
Chlorobenzene	50.0	50.9		ug/Kg		102	70 - 120
Chloroethane	50.0	49.2		ug/Kg		98	48 - 136
Chloroform	50.0	56.0		ug/Kg		112	70 - 120
Chloromethane	50.0	36.1		ug/Kg		72	56 - 152
2-Chlorotoluene	50.0	52.5		ug/Kg		105	70 - 125
4-Chlorotoluene	50.0	53.0		ug/Kg		106	68 - 124
cis-1,2-Dichloroethene	50.0	55.0		ug/Kg		110	70 - 125
cis-1,3-Dichloropropene	50.0	43.3		ug/Kg		87	64 - 127
Dibromochloromethane	50.0	49.1		ug/Kg		98	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	48.4		ug/Kg		97	56 - 123
1,2-Dibromoethane	50.0	47.4		ug/Kg		95	70 - 125
Dibromomethane	50.0	50.5		ug/Kg		101	70 - 120
1,2-Dichlorobenzene	50.0	48.7		ug/Kg		97	70 - 125
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	70 - 125
1,4-Dichlorobenzene	50.0	50.0		ug/Kg		100	70 - 120
Dichlorodifluoromethane	50.0	74.3		ug/Kg		149	40 - 159
1,1-Dichloroethane	50.0	49.9		ug/Kg		100	70 - 125
1,2-Dichloroethane	50.0	51.9		ug/Kg		104	68 - 127
1,1-Dichloroethene	50.0	58.1		ug/Kg		116	67 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-558189/16
Matrix: Solid
Analysis Batch: 558189

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	50.0	42.8		ug/Kg		86	67 - 130
1,3-Dichloropropane	50.0	43.9		ug/Kg		88	62 - 136
2,2-Dichloropropane	50.0	66.5		ug/Kg		133	58 - 139
1,1-Dichloropropene	50.0	56.2		ug/Kg		112	70 - 121
Ethylbenzene	50.0	50.9		ug/Kg		102	70 - 123
Hexachlorobutadiene	50.0	51.8		ug/Kg		104	51 - 150
Isopropylbenzene	50.0	53.6		ug/Kg		107	70 - 126
Methylene Chloride	50.0	57.4		ug/Kg		115	69 - 125
Methyl tert-butyl ether	50.0	53.1		ug/Kg		106	55 - 123
Naphthalene	50.0	45.4		ug/Kg		91	53 - 144
n-Butylbenzene	50.0	54.4		ug/Kg		109	68 - 125
N-Propylbenzene	50.0	54.5		ug/Kg		109	69 - 127
p-Isopropyltoluene	50.0	56.7		ug/Kg		113	70 - 125
sec-Butylbenzene	50.0	53.9		ug/Kg		108	70 - 123
Styrene	50.0	51.5		ug/Kg		103	70 - 120
tert-Butylbenzene	50.0	53.0		ug/Kg		106	70 - 121
1,1,1,2-Tetrachloroethane	50.0	50.0		ug/Kg		100	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.9		ug/Kg		86	62 - 140
Tetrachloroethene	50.0	52.9		ug/Kg		106	70 - 128
Toluene	50.0	46.4		ug/Kg		93	70 - 125
trans-1,2-Dichloroethene	50.0	56.6		ug/Kg		113	70 - 125
trans-1,3-Dichloropropene	50.0	45.8		ug/Kg		92	62 - 128
1,2,3-Trichlorobenzene	50.0	46.0		ug/Kg		92	51 - 145
1,2,4-Trichlorobenzene	50.0	48.6		ug/Kg		97	57 - 137
1,1,1-Trichloroethane	50.0	66.0	*	ug/Kg		132	70 - 125
1,1,2-Trichloroethane	50.0	44.5		ug/Kg		89	71 - 130
Trichloroethene	50.0	58.1		ug/Kg		116	70 - 125
Trichlorofluoromethane	50.0	62.4		ug/Kg		125	55 - 128
1,2,3-Trichloropropane	50.0	51.9		ug/Kg		104	50 - 133
1,2,4-Trimethylbenzene	50.0	53.0		ug/Kg		106	70 - 123
1,3,5-Trimethylbenzene	50.0	53.6		ug/Kg		107	70 - 123
Vinyl chloride	50.0	45.0		ug/Kg		90	64 - 126
Xylenes, Total	100	98.1		ug/Kg		98	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*72 - 124*
Dibromofluoromethane (Surr)	*114*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*108*		*75 - 126*
Toluene-d8 (Surr)	*97*		*75 - 120*

Lab Sample ID: MB 500-558757/6
Matrix: Solid
Analysis Batch: 558757

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.15		0.25	0.15	ug/Kg			08/27/20 10:47	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/27/20 10:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-558757/6
Matrix: Solid
Analysis Batch: 558757

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/27/20 10:47	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/27/20 10:47	1
Bromomethane	<0.80		3.0	0.80	ug/Kg			08/27/20 10:47	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/27/20 10:47	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/27/20 10:47	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/27/20 10:47	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/27/20 10:47	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/27/20 10:47	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/27/20 10:47	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/27/20 10:47	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/27/20 10:47	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/27/20 10:47	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/27/20 10:47	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/27/20 10:47	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/27/20 10:47	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/27/20 10:47	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/Kg			08/27/20 10:47	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/27/20 10:47	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/27/20 10:47	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/27/20 10:47	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/27/20 10:47	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/27/20 10:47	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/27/20 10:47	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/27/20 10:47	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/27/20 10:47	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/27/20 10:47	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/27/20 10:47	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/27/20 10:47	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/27/20 10:47	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/27/20 10:47	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/27/20 10:47	1
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/27/20 10:47	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/27/20 10:47	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/27/20 10:47	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/27/20 10:47	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/27/20 10:47	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/27/20 10:47	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/27/20 10:47	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/27/20 10:47	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-558757/6
Matrix: Solid
Analysis Batch: 558757

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/27/20 10:47	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/27/20 10:47	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/27/20 10:47	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/Kg			08/27/20 10:47	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/27/20 10:47	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/27/20 10:47	1
Vinyl chloride	<0.26		1.0	0.26	ug/Kg			08/27/20 10:47	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/27/20 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*		*08/27/20 10:47*	*1*
Dibromofluoromethane (Surr)	*95*		*75 - 120*		*08/27/20 10:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*75 - 126*		*08/27/20 10:47*	*1*
Toluene-d8 (Surr)	*90*		*75 - 120*		*08/27/20 10:47*	*1*

Lab Sample ID: LCS 500-558757/4
Matrix: Solid
Analysis Batch: 558757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	46.4		ug/Kg		93	70 - 120
Bromobenzene	50.0	41.5		ug/Kg		83	70 - 122
Bromochloromethane	50.0	44.7		ug/Kg		89	65 - 122
Bromodichloromethane	50.0	43.8		ug/Kg		88	69 - 120
Bromoform	50.0	35.7		ug/Kg		71	56 - 132
Bromomethane	50.0	47.4		ug/Kg		95	40 - 152
Carbon tetrachloride	50.0	50.6		ug/Kg		101	59 - 133
Chlorobenzene	50.0	45.7		ug/Kg		91	70 - 120
Chloroethane	50.0	50.5		ug/Kg		101	48 - 136
Chloroform	50.0	46.2		ug/Kg		92	70 - 120
Chloromethane	50.0	40.7		ug/Kg		81	56 - 152
2-Chlorotoluene	50.0	44.0		ug/Kg		88	70 - 125
4-Chlorotoluene	50.0	44.6		ug/Kg		89	68 - 124
cis-1,2-Dichloroethene	50.0	44.4		ug/Kg		89	70 - 125
cis-1,3-Dichloropropene	50.0	39.9		ug/Kg		80	64 - 127
Dibromochloromethane	50.0	39.1		ug/Kg		78	68 - 125
1,2-Dibromo-3-Chloropropane	50.0	28.4		ug/Kg		57	56 - 123
1,2-Dibromoethane	50.0	40.8		ug/Kg		82	70 - 125
Dibromomethane	50.0	45.6		ug/Kg		91	70 - 120
1,2-Dichlorobenzene	50.0	42.8		ug/Kg		86	70 - 125
1,3-Dichlorobenzene	50.0	44.7		ug/Kg		89	70 - 125
1,4-Dichlorobenzene	50.0	44.3		ug/Kg		89	70 - 120
Dichlorodifluoromethane	50.0	48.3		ug/Kg		97	40 - 159
1,1-Dichloroethane	50.0	48.3		ug/Kg		97	70 - 125
1,2-Dichloroethane	50.0	55.7		ug/Kg		111	68 - 127
1,1-Dichloroethene	50.0	44.2		ug/Kg		88	67 - 122
1,2-Dichloropropane	50.0	48.2		ug/Kg		96	67 - 130
1,3-Dichloropropane	50.0	40.3		ug/Kg		81	62 - 136

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-558757/4
Matrix: Solid
Analysis Batch: 558757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,2-Dichloropropane	50.0	51.2		ug/Kg		102	58 - 139
1,1-Dichloropropene	50.0	48.4		ug/Kg		97	70 - 121
Ethylbenzene	50.0	49.4		ug/Kg		99	70 - 123
Hexachlorobutadiene	50.0	57.2		ug/Kg		114	51 - 150
Isopropylbenzene	50.0	45.7		ug/Kg		91	70 - 126
Methylene Chloride	50.0	40.1		ug/Kg		80	69 - 125
Methyl tert-butyl ether	50.0	46.5		ug/Kg		93	55 - 123
Naphthalene	50.0	36.1		ug/Kg		72	53 - 144
n-Butylbenzene	50.0	49.9		ug/Kg		100	68 - 125
N-Propylbenzene	50.0	46.0		ug/Kg		92	69 - 127
p-Isopropyltoluene	50.0	51.1		ug/Kg		102	70 - 125
sec-Butylbenzene	50.0	49.1		ug/Kg		98	70 - 123
Styrene	50.0	45.0		ug/Kg		90	70 - 120
tert-Butylbenzene	50.0	47.9		ug/Kg		96	70 - 121
1,1,1,2-Tetrachloroethane	50.0	43.6		ug/Kg		87	70 - 125
1,1,2,2-Tetrachloroethane	50.0	32.3		ug/Kg		65	62 - 140
Tetrachloroethene	50.0	52.7		ug/Kg		105	70 - 128
Toluene	50.0	45.6		ug/Kg		91	70 - 125
trans-1,2-Dichloroethene	50.0	45.9		ug/Kg		92	70 - 125
trans-1,3-Dichloropropene	50.0	39.0		ug/Kg		78	62 - 128
1,2,3-Trichlorobenzene	50.0	42.3		ug/Kg		85	51 - 145
1,2,4-Trichlorobenzene	50.0	43.4		ug/Kg		87	57 - 137
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	70 - 125
1,1,2-Trichloroethane	50.0	40.2		ug/Kg		80	71 - 130
Trichloroethene	50.0	49.5		ug/Kg		99	70 - 125
Trichlorofluoromethane	50.0	46.4		ug/Kg		93	55 - 128
1,2,3-Trichloropropane	50.0	37.0		ug/Kg		74	50 - 133
1,2,4-Trimethylbenzene	50.0	46.6		ug/Kg		93	70 - 123
1,3,5-Trimethylbenzene	50.0	47.1		ug/Kg		94	70 - 123
Vinyl chloride	50.0	43.1		ug/Kg		86	64 - 126
Xylenes, Total	100	98.9		ug/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*89*		*72 - 124*
Dibromofluoromethane (Surr)	*98*		*75 - 120*
1,2-Dichloroethane-d4 (Surr)	*110*		*75 - 126*
Toluene-d8 (Surr)	*95*		*75 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-559319/1-A
Matrix: Solid
Analysis Batch: 559419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Acenaphthene	<6.0		33	6.0	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		08/31/20 16:53	09/01/20 09:46	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-559319/1-A
Matrix: Solid
Analysis Batch: 559419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559319

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<5.6		33	5.6	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Chrysene	<9.1		33	9.1	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Fluoranthene	<6.2		33	6.2	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Fluorene	<4.7		33	4.7	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Naphthalene	<5.1		33	5.1	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Phenanthrene	<4.6		33	4.6	ug/Kg		08/31/20 16:53	09/01/20 09:46	1
Pyrene	<6.6		33	6.6	ug/Kg		08/31/20 16:53	09/01/20 09:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*98*		*43 - 145*	*08/31/20 16:53*	*09/01/20 09:46*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*08/31/20 16:53*	*09/01/20 09:46*	*1*
Terphenyl-d14 (Surr)	*98*		*42 - 157*	*08/31/20 16:53*	*09/01/20 09:46*	*1*

Lab Sample ID: LCS 500-559319/2-A
Matrix: Solid
Analysis Batch: 559419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559319

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1290		ug/Kg		97	68 - 111
2-Methylnaphthalene	1330	1350		ug/Kg		102	69 - 112
Acenaphthene	1330	1280		ug/Kg		96	65 - 124
Acenaphthylene	1330	1210		ug/Kg		91	68 - 120
Anthracene	1330	1190		ug/Kg		90	70 - 114
Benzo[a]anthracene	1330	1100		ug/Kg		82	67 - 122
Benzo[a]pyrene	1330	1200		ug/Kg		90	65 - 133
Benzo[b]fluoranthene	1330	1300		ug/Kg		98	69 - 129
Benzo[g,h,i]perylene	1330	1250		ug/Kg		94	72 - 131
Benzo[k]fluoranthene	1330	1260		ug/Kg		94	68 - 127
Chrysene	1330	1030		ug/Kg		78	63 - 120
Dibenz(a,h)anthracene	1330	1270		ug/Kg		95	64 - 131
Fluoranthene	1330	1390		ug/Kg		104	62 - 120
Fluorene	1330	1360		ug/Kg		102	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1250		ug/Kg		94	68 - 130
Naphthalene	1330	1190		ug/Kg		89	63 - 110
Phenanthrene	1330	1200		ug/Kg		90	62 - 120
Pyrene	1330	991		ug/Kg		74	61 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*93*		*43 - 145*
Nitrobenzene-d5 (Surr)	*71*		*37 - 147*
Terphenyl-d14 (Surr)	*82*		*42 - 157*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-558110/21-A
Matrix: Solid
Analysis Batch: 558689

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 558110

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<0.50		1.5	0.50	mg/Kg		08/22/20 14:30	08/28/20 03:04	50

Lab Sample ID: LCS 500-558110/23-A
Matrix: Solid
Analysis Batch: 558689

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 558110

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Gasoline Range Organics (C5-C10)			20.0	22.9		mg/Kg		115	80 - 120		

Lab Sample ID: LCSD 500-558110/24-A
Matrix: Solid
Analysis Batch: 558689

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 558110

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)			20.0	22.6		mg/Kg		113	80 - 120	1	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 500-559026/1-A
Matrix: Solid
Analysis Batch: 559449

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	2.40	J	4.0	1.6	mg/Kg		08/28/20 12:22	09/01/20 13:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*92*		*44 - 148*	*08/28/20 12:22*	*09/01/20 13:11*	*1*

Lab Sample ID: LCS 500-559026/2-A
Matrix: Solid
Analysis Batch: 559449

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559026

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	21.4		mg/Kg		107	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*87*		*44 - 148*

Lab Sample ID: LCSD 500-559026/3-A
Matrix: Solid
Analysis Batch: 559449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559026

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	23.2		mg/Kg		116	70 - 120	8	20

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC) (Continued)

Lab Sample ID: LCSD 500-559026/3-A
Matrix: Solid
Analysis Batch: 559449

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 559026

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*90*		*44 - 148*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-559071/1-A
Matrix: Solid
Analysis Batch: 559347

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559071

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Barium	<0.11		1.0	0.11	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Cadmium	0.0418	J	0.20	0.036	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Lead	<0.23		0.50	0.23	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/28/20 18:17	08/31/20 01:23	1
Silver	<0.13		0.50	0.13	mg/Kg		08/28/20 18:17	08/31/20 01:23	1

Lab Sample ID: LCS 500-559071/2-A
Matrix: Solid
Analysis Batch: 559347

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559071

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.21		mg/Kg		92	80 - 120
Barium	200	191		mg/Kg		95	80 - 120
Cadmium	5.00	4.65		mg/Kg		93	80 - 120
Chromium	20.0	19.2		mg/Kg		96	80 - 120
Lead	10.0	9.45		mg/Kg		95	80 - 120
Selenium	10.0	8.23		mg/Kg		82	80 - 120
Silver	5.00	4.50		mg/Kg		90	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-559266/12-A
Matrix: Solid
Analysis Batch: 559445

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 559266

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		08/31/20 13:20	09/01/20 07:16	1

Lab Sample ID: LCS 500-559266/13-A
Matrix: Solid
Analysis Batch: 559445

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 559266

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 500-186731-7 MS
Matrix: Solid
Analysis Batch: 559445

Client Sample ID: B-6 6-8
Prep Type: Total/NA
Prep Batch: 559266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.028		0.0959	0.137		mg/Kg	☼	113	75 - 125

Lab Sample ID: 500-186731-7 MSD
Matrix: Solid
Analysis Batch: 559445

Client Sample ID: B-6 6-8
Prep Type: Total/NA
Prep Batch: 559266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.028		0.0957	0.131		mg/Kg	☼	108	75 - 125	4	20

Lab Sample ID: 500-186731-7 DU
Matrix: Solid
Analysis Batch: 559445

Client Sample ID: B-6 6-8
Prep Type: Total/NA
Prep Batch: 559266

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Mercury	0.028		0.0379	F5	mg/Kg	☼	29	20

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-1 0-2
Date Collected: 08/20/20 09:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-1 0-2
Date Collected: 08/20/20 09:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-1
Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 13:55	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559681	09/02/20 20:08	NRJ	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:11	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:23	MJG	TAL CHI

Client Sample ID: B-2 0-2
Date Collected: 08/20/20 09:20
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-2 0-2
Date Collected: 08/20/20 09:20
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-2
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			558110	08/20/20 09:20	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 14:22	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 15:12	AJD	TAL CHI
Total/NA	Prep	WI GRO			558110	08/20/20 09:20	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	558689	08/28/20 04:14	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			559026	08/28/20 12:22	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	559449	09/01/20 14:03	JBJ	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:15	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:25	MJG	TAL CHI

Client Sample ID: B-3 2-4
Date Collected: 08/20/20 09:30
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-3 2-4
Date Collected: 08/20/20 09:30
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-3
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 09:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 14:49	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 15:39	AJD	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:19	EEN	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		5	559535	09/01/20 02:13	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:27	MJG	TAL CHI

Client Sample ID: B-4 2-4
Date Collected: 08/20/20 09:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-4 2-4
Date Collected: 08/20/20 09:45
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-4
Matrix: Solid
Percent Solids: 82.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			558110	08/20/20 09:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 15:15	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 11:08	AJD	TAL CHI
Total/NA	Prep	WI GRO			558110	08/20/20 09:45	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	558689	08/28/20 04:49	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			559026	08/28/20 12:22	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	559449	09/01/20 14:29	JBJ	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:24	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:29	MJG	TAL CHI

Client Sample ID: B-5 0-2
Date Collected: 08/20/20 10:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-5 0-2
Date Collected: 08/20/20 10:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-5
Matrix: Solid
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 10:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 15:42	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559681	09/02/20 21:06	NRJ	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:28	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:31	MJG	TAL CHI

Client Sample ID: B-6 2-4
Date Collected: 08/20/20 11:10
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-6 2-4
Date Collected: 08/20/20 11:10
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-6
Matrix: Solid
Percent Solids: 91.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 11:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 16:09	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 11:35	AJD	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:44	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:38	MJG	TAL CHI

Client Sample ID: B-6 6-8
Date Collected: 08/20/20 11:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-6 6-8

Lab Sample ID: 500-186731-7

Date Collected: 08/20/20 11:15
Matrix: Solid
Date Received: 08/21/20 09:45
Percent Solids: 85.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 11:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 16:36	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 12:02	AJD	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:48	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:39	MJG	TAL CHI

Client Sample ID: B-7 2-4

Lab Sample ID: 500-186731-8

Date Collected: 08/20/20 11:35
Matrix: Solid
Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-7 2-4

Lab Sample ID: 500-186731-8

Date Collected: 08/20/20 11:35
Matrix: Solid
Date Received: 08/21/20 09:45
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			558110	08/20/20 11:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 17:03	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 12:29	AJD	TAL CHI
Total/NA	Prep	WI GRO			558110	08/20/20 11:35	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	558689	08/28/20 05:23	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			559026	08/28/20 12:22	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	559449	09/01/20 14:55	JBJ	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:52	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:47	MJG	TAL CHI

Client Sample ID: B-7 8-10

Lab Sample ID: 500-186731-9

Date Collected: 08/20/20 11:45
Matrix: Solid
Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-7 8-10

Lab Sample ID: 500-186731-9

Date Collected: 08/20/20 11:45

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 82.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 11:45	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 17:30	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 12:56	AJD	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 02:56	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:49	MJG	TAL CHI

Client Sample ID: B-8 0-2

Lab Sample ID: 500-186731-10

Date Collected: 08/20/20 12:05

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-8 0-2

Lab Sample ID: 500-186731-10

Date Collected: 08/20/20 12:05

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 12:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 17:57	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 13:24	AJD	TAL CHI
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 03:00	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:51	MJG	TAL CHI

Client Sample ID: B-8 6-8

Lab Sample ID: 500-186731-11

Date Collected: 08/20/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	559007	08/28/20 10:20	LWN	TAL CHI

Client Sample ID: B-8 6-8

Lab Sample ID: 500-186731-11

Date Collected: 08/20/20 12:15

Matrix: Solid

Date Received: 08/21/20 09:45

Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 12:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 18:24	STW	TAL CHI
Total/NA	Prep	3541			559319	08/31/20 16:53	ACK	TAL CHI
Total/NA	Analysis	8270D		1	559419	09/01/20 13:51	AJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-1

Client Sample ID: B-8 6-8

Date Collected: 08/20/20 12:15
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-11

Matrix: Solid
Percent Solids: 85.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			559071	08/28/20 18:17	BDE	TAL CHI
Total/NA	Analysis	6010C		1	559347	08/31/20 03:04	EEN	TAL CHI
Total/NA	Prep	7471B			559266	08/31/20 13:20	MJG	TAL CHI
Total/NA	Analysis	7471B		1	559445	09/01/20 07:52	MJG	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 08/20/20 00:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			558110	08/20/20 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	558757	08/27/20 11:14	STW	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Job ID: 500-186731-1
Project/Site: WisDOT I-43 - 341633.0000

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Wesley Brayer	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-84467-38347 2
Client Contact: Alia Enright	Phone: 608-234-7374	E-Mail: sandie.fredrick@testamericainc.com		Page: 1 2 Page 2 of 2
Company: TRC Environmental Corporation.				Job #: 500-186731
Address: 150 N. Patrick Blvd. Suite 180	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Brookfield	TAT Requested (days):			A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
State, Zip: WI, 53045				
Phone: 500-186731 COC	PO #: Purchase Order Requested			Other:
Email: AEnright@trccompanies.com	WO #:			
Project Name: WisDOT I-43, 341633 0000	Project #: 50016869			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PVOCs	PAHs	RCRA Metals	VOCs	GRO	DRO	TCLP Metals	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F	N	N	F	N	N	N		
1 B-1 0-2	8/20/20	0900	C	Solid	N	N	X	X	X						
2 B-2 0-2		0920		Solid	N	N	X	X	X		X	X			
3 B-3 2-4		0930		Solid	N	N	X	X	X						
4 B-4 2-4		0945		Solid	N	N	X	X	X		X	X	X		HOLD TCLP Metals
5 B-5 0-2		1000		Solid	N	N	X	X	X						
6 B-6 2-4		1110		Solid	N	N		X	X	X					
7 B-6 6-8		1115		Solid	N	N		X	X	X					
8 B-7 2-4		1135		Solid	N	N		X	X	X	X	X	X		HOLD TCLP Metals
9 B-7 8-10		1145		Solid	N	N		X	X	X					
10 B-8 0-2		1205		Solid	N	N		X	X	X					
11 B-8 6-8		1215		Solid	N	N		X	X	X					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time:	Method of Shipment

Relinquished by:	Date/Time: 8/20/20 1545	Company: TRC	Received by:	Date/Time: 8/21/20 0945	Company: TAL CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.1

Ver: 01/16/2019

9/3/2020

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Wesley Bragg	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-84467-38347.1
Client Contact: Alia Enright	Phone: 608-234-4374	E-Mail: sandie.fredrick@testamericainc.com		Page: Page 2 of 2
Company: TRC Environmental Corporation.				Job #:
Address: 150 N Patrick Blvd. Suite 180	Due Date Requested:	Analysis Requested		Preservation Codes: A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify), Other:
City: Brookfield	TAT Requested (days):			
State, Zip: WI, 53045				
Phone:	PO #: Purchase Order Requested			
Email: AEnright@trccompanies.com	WO #:			
Project Name: WisDOT I-43. 341633.0000	Project #: 50016869			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	VOCs	Total Number of containers	Special Instructions/Note:
			Preservation Code:				F		
12 Trip Blank	—	—	—	Solid	N	N	X		
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					
				Solid					

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Wesley Bragg	8/20/20 1545	TRC	Allison Laatsch	8/21/20 0945	TA-CHI
Relinquished by	Date/Time	Company	Received by	Date/Time	Company
Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:

Ver. 01/16/2019

Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-186731-1

Login Number: 186731 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-186731-2
Client Project/Site: WisDOT I-43 - 341633.0000

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Alia Enright

Authorized for release by:
9/15/2020 2:05:54 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-186731-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-186731-2

Comments
No additional comments.

Receipt
The samples were received on 8/21/2020 9:45 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 5.1° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Client Sample ID: B-1 0-2 — Lab Sample ID: 500-186731-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.061		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-3 2-4 — Lab Sample ID: 500-186731-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.1		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-5 0-2 — Lab Sample ID: 500-186731-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.035	J	0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-186731-1	B-1 0-2	Solid	08/20/20 09:00	08/21/20 09:45	
500-186731-3	B-3 2-4	Solid	08/20/20 09:30	08/21/20 09:45	
500-186731-5	B-5 0-2	Solid	08/20/20 10:00	08/21/20 09:45	

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Client Sample ID: B-1 0-2
Date Collected: 08/20/20 09:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-1
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.061		0.050	0.0075	mg/L		09/14/20 16:20	09/15/20 08:00	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Client Sample ID: B-3 2-4
Date Collected: 08/20/20 09:30
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-3
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.1		0.050	0.0075	mg/L		09/14/20 16:20	09/15/20 08:04	1

Client Sample Results

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Client Sample ID: B-5 0-2
Date Collected: 08/20/20 10:00
Date Received: 08/21/20 09:45

Lab Sample ID: 500-186731-5
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.035	J	0.050	0.0075	mg/L		09/14/20 16:20	09/15/20 08:08	1

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Metals

Leach Batch: 561060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	TCLP	Solid	1311	
500-186731-3	B-3 2-4	TCLP	Solid	1311	
500-186731-5	B-5 0-2	TCLP	Solid	1311	
LB 500-561060/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 561323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	TCLP	Solid	3010A	561060
500-186731-3	B-3 2-4	TCLP	Solid	3010A	561060
500-186731-5	B-5 0-2	TCLP	Solid	3010A	561060
LB 500-561060/1-B	Method Blank	TCLP	Solid	3010A	561060
LCS 500-561323/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 561513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-186731-1	B-1 0-2	TCLP	Solid	6010B	561323
500-186731-3	B-3 2-4	TCLP	Solid	6010B	561323
500-186731-5	B-5 0-2	TCLP	Solid	6010B	561323
LB 500-561060/1-B	Method Blank	TCLP	Solid	6010B	561323
LCS 500-561323/2-A	Lab Control Sample	Total/NA	Solid	6010B	561323

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-561323/2-A
Matrix: Solid
Analysis Batch: 561513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 561323

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			0.100	0.100		mg/L		100	80 - 120		

Lab Sample ID: LB 500-561060/1-B
Matrix: Solid
Analysis Batch: 561513

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 561323

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		09/14/20 16:20	09/15/20 07:52	1

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: WisDOT I-43 - 341633.0000

Job ID: 500-186731-2

Client Sample ID: B-1 0-2

Lab Sample ID: 500-186731-1

Date Collected: 08/20/20 09:00

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			561060	09/11/20 13:12	JLC	TAL CHI
TCLP	Prep	3010A			561323	09/14/20 16:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	561513	09/15/20 08:00	JEF	TAL CHI

Client Sample ID: B-3 2-4

Lab Sample ID: 500-186731-3

Date Collected: 08/20/20 09:30

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			561060	09/11/20 13:12	JLC	TAL CHI
TCLP	Prep	3010A			561323	09/14/20 16:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	561513	09/15/20 08:04	JEF	TAL CHI

Client Sample ID: B-5 0-2

Lab Sample ID: 500-186731-5

Date Collected: 08/20/20 10:00

Matrix: Solid

Date Received: 08/21/20 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			561060	09/11/20 13:12	JLC	TAL CHI
TCLP	Prep	3010A			561323	09/14/20 16:20	BDE	TAL CHI
TCLP	Analysis	6010B		1	561513	09/15/20 08:08	JEF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation.
Job ID: 500-186731-2
Project/Site: WisDOT I-43 - 341633.0000

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Fredrick, Sandie

From: Enright, Alia <AEnright@trccompanies.com>
Sent: Friday, September 04, 2020 12:50 PM
To: Fredrick, Sandie
Cc: O'Connell, Theodore
Subject: RE: [EXTERNAL] Eurofins TestAmerica report and EDD files from 500-186731-1 WisDOT I-43 - 341633.0000

EXTERNAL EMAIL*

Hi Sandie,
Please run TCLP lead analysis on the following samples:

- B-1 (0-2)
- B-3 (2-4)
- B-5 (0-2)

Thanks,
Alia

Alia Enright, P.E. (WI)
Project Engineer

TRC
150 North Patrick Blvd, Suite 180, Brookfield, WI 53045
T 608.826.3646 | **F** 262.879.1220 | **C** 608.572.3845
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Sandie Fredrick <sandra.fredrick@eurofinset.com>
Sent: Thursday, September 3, 2020 11:15 AM
To: Enright, Alia <AEnright@trccompanies.com>; Sobbe, Aaron <ASobbe@trccompanies.com>; Bergmann, Bryan <BBergmann@trccompanies.com>; Hartwick, Ross <RHartwick@trccompanies.com>; Stapel, Warren <WStapel@trccompanies.com>
Subject: [EXTERNAL] Eurofins TestAmerica report and EDD files from 500-186731-1 WisDOT I-43 - 341633.0000

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello Everyone,

Attached please find the report and EDD files for job 500-186731-1; WisDOT I-43 - 341633.0000

Please feel free to contact me if you have any questions.

Thank you.

Sandie Fredrick
Project Manager

Eurofins TestAmerica, Chicago
Phone: 920-261-1660

E-mail: sandra.fredrick@eurofinset.com
www.eurofinsus.com/env



Reference: [500-553142]
Attachments: 4

Please let us know if we met your expectations by rating the service you received from Eurofins TestAmerica on this project by visiting our website at: Project Feedback

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Login Sample Receipt Checklist

Client: TRC Environmental Corporation. Job Number: 500-186731-2

Login Number: 186731 **List Source: Eurofins TestAmerica, Chicago**
List Number: 1
Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	5.1
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189109-1
Client Project/Site: WisDOT I-43 341633.0000

For:
TRC Environmental Corporation
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Ted O'Connell

Authorized for release by:
10/16/2020 10:38:01 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-189109-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-189109-1

Comments
No additional comments.

Receipt
The samples were received on 10/9/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

GC/MS Semi VOA
Method 8270D: The following samples contained one base surrogate outside acceptance limits:(MB 500-566640/1-A). The laboratory's SOP allows one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

Method 8270D: The following samples were diluted due to the nature of the sample matrix: B-19 (0-2) (500-189109-41) and B-19 (2-4) (500-189109-42). Elevated reporting limits (RLs) are provided.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: B-19 (2-4) (500-189109-42). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-1a (2-4) — Lab Sample ID: 500-189109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	210	F2 V	0.54	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-1a (4-6) — Lab Sample ID: 500-189109-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.59	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-2a (2-4) — Lab Sample ID: 500-189109-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	210		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-2a (4-6) — Lab Sample ID: 500-189109-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	14		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-3a (0-2) — Lab Sample ID: 500-189109-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6100		2.9	1.4	mg/Kg	5	☼	6010C	Total/NA

Client Sample ID: B-3a (4-6) — Lab Sample ID: 500-189109-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	460		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-4a (0-2) — Lab Sample ID: 500-189109-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	720		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-4a (4-6) — Lab Sample ID: 500-189109-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	23		0.56	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-5a (2-4) — Lab Sample ID: 500-189109-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.55	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-5a (4-6) — Lab Sample ID: 500-189109-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-9 (0-2) — Lab Sample ID: 500-189109-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17000		2.7	1.2	mg/Kg	5	☼	6010C	Total/NA

Client Sample ID: B-9 (2-4) — Lab Sample ID: 500-189109-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	37		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-9 (4-6) — Lab Sample ID: 500-189109-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-17 (0-2) — Lab Sample ID: 500-189109-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	140		0.48	0.22	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-17 (2-4) — Lab Sample ID: 500-189109-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3400		2.6	1.2	mg/Kg	5	☼	6010C	Total/NA

Client Sample ID: B-17 (4-6) — Lab Sample ID: 500-189109-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		0.56	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-12 (0-2) — Lab Sample ID: 500-189109-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	280		0.51	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-12 (2-4) — Lab Sample ID: 500-189109-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	300		0.48	0.22	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-12 (4-6) — Lab Sample ID: 500-189109-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.50	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-15 (0-2) — Lab Sample ID: 500-189109-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	200		0.48	0.22	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-15 (2-4) — Lab Sample ID: 500-189109-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	44	V	0.51	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-15 (4-6) — Lab Sample ID: 500-189109-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-10 (0-2) — Lab Sample ID: 500-189109-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	140		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-10 (2-4) — Lab Sample ID: 500-189109-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-10 (4-6) — Lab Sample ID: 500-189109-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-11 (0-2) — Lab Sample ID: 500-189109-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	490		0.58	0.27	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-11 (2-4) — Lab Sample ID: 500-189109-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.57	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-11 (4-6) — Lab Sample ID: 500-189109-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.60	0.28	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-14 (0-2) — Lab Sample ID: 500-189109-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	450		0.56	0.26	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-14 (2-4) — Lab Sample ID: 500-189109-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	710		2.7	1.3	mg/Kg	5	☼	6010C	Total/NA

Client Sample ID: B-14 (4-6) — Lab Sample ID: 500-189109-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.55	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-16 (0-2) — Lab Sample ID: 500-189109-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	47		0.49	0.22	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-16 (2-4) — Lab Sample ID: 500-189109-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	480		0.52	0.24	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-16 (4-5.5) — Lab Sample ID: 500-189109-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	770		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-16 (5.5-6) — Lab Sample ID: 500-189109-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	33		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-13 (0-2) — Lab Sample ID: 500-189109-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	350		0.53	0.25	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-13 (2-4) — Lab Sample ID: 500-189109-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	420		0.49	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-13 (4-6) — Lab Sample ID: 500-189109-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.2		0.50	0.23	mg/Kg	1	☼	6010C	Total/NA

Client Sample ID: B-18 (0-2) — Lab Sample ID: 500-189109-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	32		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.060	J	0.21	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	15		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	12		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.012	J	0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-18 (2-4) — Lab Sample ID: 500-189109-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		1.1	0.36	mg/Kg	1	☼	6010C	Total/NA
Barium	28		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.14	J	0.21	0.038	mg/Kg	1	☼	6010C	Total/NA
Chromium	14		1.1	0.52	mg/Kg	1	☼	6010C	Total/NA
Lead	8.8		0.53	0.24	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.016	J	0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-19 (0-2) — Lab Sample ID: 500-189109-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	140	J	360	44	ug/Kg	5	☼	8270D	Total/NA
2-Methylnaphthalene	240	J	360	33	ug/Kg	5	☼	8270D	Total/NA
Acenaphthene	36	J	180	32	ug/Kg	5	☼	8270D	Total/NA
Anthracene	44	J	180	30	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]anthracene	320		180	24	ug/Kg	5	☼	8270D	Total/NA
Benzo[a]pyrene	240		180	35	ug/Kg	5	☼	8270D	Total/NA
Benzo[b]fluoranthene	580		180	39	ug/Kg	5	☼	8270D	Total/NA
Benzo[g,h,i]perylene	290		180	58	ug/Kg	5	☼	8270D	Total/NA
Benzo[k]fluoranthene	120	J	180	53	ug/Kg	5	☼	8270D	Total/NA
Chrysene	710		180	49	ug/Kg	5	☼	8270D	Total/NA
Dibenz(a,h)anthracene	210		180	35	ug/Kg	5	☼	8270D	Total/NA
Fluoranthene	290		180	33	ug/Kg	5	☼	8270D	Total/NA
Fluorene	170	J	180	25	ug/Kg	5	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	120	J	180	47	ug/Kg	5	☼	8270D	Total/NA
Naphthalene	100	J	180	28	ug/Kg	5	☼	8270D	Total/NA
Phenanthrene	610		180	25	ug/Kg	5	☼	8270D	Total/NA
Pyrene	390		180	36	ug/Kg	5	☼	8270D	Total/NA
Arsenic	5.4		1.0	0.34	mg/Kg	1	☼	6010C	Total/NA
Barium	63		1.0	0.11	mg/Kg	1	☼	6010C	Total/NA
Cadmium	0.61	B	0.20	0.036	mg/Kg	1	☼	6010C	Total/NA
Chromium	38		1.0	0.50	mg/Kg	1	☼	6010C	Total/NA
Lead	420		0.50	0.23	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.035		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-19 (2-4) — Lab Sample ID: 500-189109-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	530	J	4000	490	ug/Kg	50	☼	8270D	Total/NA
2-Methylnaphthalene	1000	J	4000	370	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]anthracene	520	J	2000	270	ug/Kg	50	☼	8270D	Total/NA
Benzo[a]pyrene	390	J	2000	390	ug/Kg	50	☼	8270D	Total/NA
Benzo[b]fluoranthene	850	J	2000	430	ug/Kg	50	☼	8270D	Total/NA
Benzo[g,h,i]perylene	1800	J	2000	650	ug/Kg	50	☼	8270D	Total/NA
Chrysene	1300	J	2000	550	ug/Kg	50	☼	8270D	Total/NA
Fluoranthene	780	J	2000	370	ug/Kg	50	☼	8270D	Total/NA
Fluorene	900	J	2000	280	ug/Kg	50	☼	8270D	Total/NA
Naphthalene	490	J	2000	310	ug/Kg	50	☼	8270D	Total/NA
Phenanthrene	1400	J	2000	280	ug/Kg	50	☼	8270D	Total/NA
Pyrene	760	J	2000	400	ug/Kg	50	☼	8270D	Total/NA
Arsenic	8.5		1.1	0.37	mg/Kg	1	☼	6010C	Total/NA
Barium	160		1.1	0.12	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.2	B	0.21	0.039	mg/Kg	1	☼	6010C	Total/NA
Chromium	91		1.1	0.53	mg/Kg	1	☼	6010C	Total/NA
Lead	970		0.54	0.25	mg/Kg	1	☼	6010C	Total/NA
Selenium	1.1		1.1	0.63	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.098		0.020	0.0066	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-20 (0-2) — Lab Sample ID: 500-189109-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1-Methylnaphthalene	80	J	82	10	ug/Kg	1	☼	8270D	Total/NA
2-Methylnaphthalene	90		82	7.5	ug/Kg	1	☼	8270D	Total/NA
Acenaphthene	18	J	41	7.3	ug/Kg	1	☼	8270D	Total/NA
Acenaphthylene	12	J	41	5.4	ug/Kg	1	☼	8270D	Total/NA
Anthracene	53		41	6.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]anthracene	230		41	5.5	ug/Kg	1	☼	8270D	Total/NA
Benzo[a]pyrene	200		41	7.9	ug/Kg	1	☼	8270D	Total/NA
Benzo[b]fluoranthene	310		41	8.8	ug/Kg	1	☼	8270D	Total/NA
Benzo[g,h,i]perylene	100		41	13	ug/Kg	1	☼	8270D	Total/NA
Benzo[k]fluoranthene	130		41	12	ug/Kg	1	☼	8270D	Total/NA
Chrysene	310		41	11	ug/Kg	1	☼	8270D	Total/NA
Dibenz(a,h)anthracene	51		41	7.9	ug/Kg	1	☼	8270D	Total/NA
Fluoranthene	460		41	7.6	ug/Kg	1	☼	8270D	Total/NA
Fluorene	32	J	41	5.7	ug/Kg	1	☼	8270D	Total/NA
Indeno[1,2,3-cd]pyrene	58		41	11	ug/Kg	1	☼	8270D	Total/NA
Naphthalene	63		41	6.3	ug/Kg	1	☼	8270D	Total/NA
Phenanthrene	320		41	5.7	ug/Kg	1	☼	8270D	Total/NA
Pyrene	470		41	8.1	ug/Kg	1	☼	8270D	Total/NA
Arsenic	12		1.2	0.42	mg/Kg	1	☼	6010C	Total/NA
Barium	340		1.2	0.14	mg/Kg	1	☼	6010C	Total/NA
Cadmium	1.9	B	0.24	0.044	mg/Kg	1	☼	6010C	Total/NA
Chromium	160		1.2	0.61	mg/Kg	1	☼	6010C	Total/NA
Lead	1600		0.61	0.28	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.53		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: B-20 (2-4) — Lab Sample ID: 500-189109-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		1.1	0.38	mg/Kg	1	☼	6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: B-20 (2-4) (Continued)

Lab Sample ID: 500-189109-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	55		1.1	0.13	mg/Kg	1	☼	6010C	Total/NA
Chromium	21		1.1	0.54	mg/Kg	1	☼	6010C	Total/NA
Lead	14		0.55	0.25	mg/Kg	1	☼	6010C	Total/NA
Mercury	0.054		0.019	0.0063	mg/Kg	1	☼	7471B	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Method	Method Description	Protocol	Laboratory
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6010C	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
3050B	Preparation, Metals	SW846	TAL CHI
3541	Automated Soxhlet Extraction	SW846	TAL CHI
7471B	Preparation, Mercury	SW846	TAL CHI

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-189109-1	B-1a (2-4)	Solid	10/08/20 10:30	10/09/20 09:40	
500-189109-2	B-1a (4-6)	Solid	10/08/20 10:35	10/09/20 09:40	
500-189109-3	B-2a (2-4)	Solid	10/08/20 10:50	10/09/20 09:40	
500-189109-4	B-2a (4-6)	Solid	10/08/20 10:55	10/09/20 09:40	
500-189109-5	B-3a (0-2)	Solid	10/08/20 11:15	10/09/20 09:40	
500-189109-6	B-3a (4-6)	Solid	10/08/20 11:20	10/09/20 09:40	
500-189109-7	B-4a (0-2)	Solid	10/08/20 11:25	10/09/20 09:40	
500-189109-8	B-4a (4-6)	Solid	10/08/20 11:30	10/09/20 09:40	
500-189109-9	B-5a (2-4)	Solid	10/08/20 11:40	10/09/20 09:40	
500-189109-10	B-5a (4-6)	Solid	10/08/20 11:45	10/09/20 09:40	
500-189109-11	B-9 (0-2)	Solid	10/08/20 11:00	10/09/20 09:40	
500-189109-12	B-9 (2-4)	Solid	10/08/20 11:05	10/09/20 09:40	
500-189109-13	B-9 (4-6)	Solid	10/08/20 11:10	10/09/20 09:40	
500-189109-14	B-17 (0-2)	Solid	10/08/20 12:00	10/09/20 09:40	
500-189109-15	B-17 (2-4)	Solid	10/08/20 12:05	10/09/20 09:40	
500-189109-16	B-17 (4-6)	Solid	10/08/20 12:10	10/09/20 09:40	
500-189109-17	B-12 (0-2)	Solid	10/08/20 12:15	10/09/20 09:40	
500-189109-18	B-12 (2-4)	Solid	10/08/20 12:20	10/09/20 09:40	
500-189109-19	B-12 (4-6)	Solid	10/08/20 12:25	10/09/20 09:40	
500-189109-20	B-15 (0-2)	Solid	10/08/20 12:30	10/09/20 09:40	
500-189109-21	B-15 (2-4)	Solid	10/08/20 12:35	10/09/20 09:40	
500-189109-22	B-15 (4-6)	Solid	10/08/20 12:40	10/09/20 09:40	
500-189109-23	B-10 (0-2)	Solid	10/08/20 12:45	10/09/20 09:40	
500-189109-24	B-10 (2-4)	Solid	10/08/20 12:50	10/09/20 09:40	
500-189109-25	B-10 (4-6)	Solid	10/08/20 12:55	10/09/20 09:40	
500-189109-26	B-11 (0-2)	Solid	10/08/20 13:00	10/09/20 09:40	
500-189109-27	B-11 (2-4)	Solid	10/08/20 13:05	10/09/20 09:40	
500-189109-28	B-11 (4-6)	Solid	10/08/20 13:10	10/09/20 09:40	
500-189109-29	B-14 (0-2)	Solid	10/08/20 13:15	10/09/20 09:40	
500-189109-30	B-14 (2-4)	Solid	10/08/20 13:20	10/09/20 09:40	
500-189109-31	B-14 (4-6)	Solid	10/08/20 13:25	10/09/20 09:40	
500-189109-32	B-16 (0-2)	Solid	10/08/20 13:30	10/09/20 09:40	
500-189109-33	B-16 (2-4)	Solid	10/08/20 13:35	10/09/20 09:40	
500-189109-34	B-16 (4-5.5)	Solid	10/08/20 13:40	10/09/20 09:40	
500-189109-35	B-16 (5.5-6)	Solid	10/08/20 13:45	10/09/20 09:40	
500-189109-36	B-13 (0-2)	Solid	10/08/20 13:50	10/09/20 09:40	
500-189109-37	B-13 (2-4)	Solid	10/08/20 13:55	10/09/20 09:40	
500-189109-38	B-13 (4-6)	Solid	10/08/20 14:00	10/09/20 09:40	
500-189109-39	B-18 (0-2)	Solid	10/08/20 14:05	10/09/20 09:40	
500-189109-40	B-18 (2-4)	Solid	10/08/20 14:10	10/09/20 09:40	
500-189109-41	B-19 (0-2)	Solid	10/08/20 14:15	10/09/20 09:40	
500-189109-42	B-19 (2-4)	Solid	10/08/20 14:20	10/09/20 09:40	
500-189109-43	B-20 (0-2)	Solid	10/08/20 14:25	10/09/20 09:40	
500-189109-44	B-20 (2-4)	Solid	10/08/20 14:30	10/09/20 09:40	

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-1a (2-4)
Date Collected: 10/08/20 10:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-1
Matrix: Solid
Percent Solids: 88.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210	F2 V	0.54	0.25	mg/Kg	☼	10/14/20 17:50	10/15/20 08:01	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-1a (4-6)
Date Collected: 10/08/20 10:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-2
Matrix: Solid
Percent Solids: 83.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.59	0.27	mg/Kg	☼	10/14/20 17:50	10/15/20 08:23	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-2a (2-4)
Date Collected: 10/08/20 10:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-3
Matrix: Solid
Percent Solids: 87.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	210		0.52	0.24	mg/Kg	☼	10/14/20 17:50	10/15/20 08:27	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-2a (4-6)
Date Collected: 10/08/20 10:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-4
Matrix: Solid
Percent Solids: 80.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	14		0.58	0.27	mg/Kg	☼	10/14/20 17:50	10/15/20 08:30	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-3a (0-2)
Date Collected: 10/08/20 11:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-5
Matrix: Solid
Percent Solids: 81.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6100		2.9	1.4	mg/Kg	☼	10/14/20 17:50	10/15/20 11:20	5

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-3a (4-6)
Date Collected: 10/08/20 11:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-6
Matrix: Solid
Percent Solids: 85.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	460		0.51	0.24	mg/Kg	☼	10/14/20 17:50	10/15/20 08:36	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-4a (0-2)
Date Collected: 10/08/20 11:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-7
Matrix: Solid
Percent Solids: 87.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	720		0.54	0.25	mg/Kg	☼	10/14/20 17:50	10/15/20 08:40	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-4a (4-6)
Date Collected: 10/08/20 11:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-8
Matrix: Solid
Percent Solids: 80.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	23		0.56	0.26	mg/Kg	☼	10/14/20 17:50	10/15/20 08:43	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-5a (2-4)
Date Collected: 10/08/20 11:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-9
Matrix: Solid
Percent Solids: 83.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.55	0.25	mg/Kg	☼	10/14/20 17:50	10/15/20 08:46	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-5a (4-6)
Date Collected: 10/08/20 11:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-10
Matrix: Solid
Percent Solids: 80.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		0.57	0.26	mg/Kg	☼	10/14/20 17:50	10/15/20 08:56	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-9 (0-2)
Date Collected: 10/08/20 11:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-11
Matrix: Solid
Percent Solids: 83.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17000		2.7	1.2	mg/Kg	☼	10/14/20 17:50	10/15/20 11:29	5

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-9 (2-4)
Date Collected: 10/08/20 11:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-12
Matrix: Solid
Percent Solids: 85.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	37		0.52	0.24	mg/Kg	☼	10/14/20 17:50	10/15/20 09:02	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-9 (4-6)
Date Collected: 10/08/20 11:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-13
Matrix: Solid
Percent Solids: 83.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.58	0.27	mg/Kg	☼	10/14/20 17:50	10/15/20 09:05	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-17 (0-2)
Date Collected: 10/08/20 12:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-14
Matrix: Solid
Percent Solids: 94.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		0.48	0.22	mg/Kg	☼	10/14/20 17:50	10/15/20 09:08	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-17 (2-4)
Date Collected: 10/08/20 12:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-15
Matrix: Solid
Percent Solids: 83.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3400		2.6	1.2	mg/Kg	☼	10/14/20 17:50	10/15/20 11:32	5

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-17 (4-6)
Date Collected: 10/08/20 12:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-16
Matrix: Solid
Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		0.56	0.26	mg/Kg	☼	10/14/20 17:50	10/15/20 09:15	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-12 (0-2)
Date Collected: 10/08/20 12:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-17
Matrix: Solid
Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	280		0.51	0.24	mg/Kg	☼	10/14/20 17:50	10/15/20 09:18	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-12 (2-4)
Date Collected: 10/08/20 12:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-18
Matrix: Solid
Percent Solids: 87.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	300		0.48	0.22	mg/Kg	☼	10/14/20 17:50	10/15/20 09:21	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-12 (4-6)
Date Collected: 10/08/20 12:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-19
Matrix: Solid
Percent Solids: 87.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		0.50	0.23	mg/Kg	☼	10/14/20 17:50	10/15/20 09:24	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-15 (0-2)
Date Collected: 10/08/20 12:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-20
Matrix: Solid
Percent Solids: 92.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	200		0.48	0.22	mg/Kg	☼	10/14/20 17:50	10/15/20 09:34	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-15 (2-4)
Date Collected: 10/08/20 12:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-21
Matrix: Solid
Percent Solids: 90.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44	V	0.51	0.24	mg/Kg	☼	10/14/20 17:54	10/15/20 09:47	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-15 (4-6)
Date Collected: 10/08/20 12:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-22
Matrix: Solid
Percent Solids: 89.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.49	0.23	mg/Kg	☼	10/14/20 17:54	10/15/20 10:03	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-10 (0-2)
Date Collected: 10/08/20 12:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-23
Matrix: Solid
Percent Solids: 89.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	140		0.49	0.23	mg/Kg	☼	10/14/20 17:54	10/15/20 10:13	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-10 (2-4)
Date Collected: 10/08/20 12:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-24
Matrix: Solid
Percent Solids: 83.6

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.52	0.24	mg/Kg	☼	10/14/20 17:54	10/15/20 10:16	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-10 (4-6)
Date Collected: 10/08/20 12:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-25
Matrix: Solid
Percent Solids: 80.8

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.58	0.27	mg/Kg	☼	10/14/20 17:54	10/15/20 10:19	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-11 (0-2)
Date Collected: 10/08/20 13:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-26
Matrix: Solid
Percent Solids: 84.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	490		0.58	0.27	mg/Kg	☼	10/14/20 17:54	10/15/20 10:22	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-11 (2-4)
Date Collected: 10/08/20 13:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-27
Matrix: Solid
Percent Solids: 80.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		0.57	0.26	mg/Kg	☼	10/14/20 17:54	10/15/20 10:25	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-11 (4-6)
Date Collected: 10/08/20 13:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-28
Matrix: Solid
Percent Solids: 82.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.60	0.28	mg/Kg	☼	10/14/20 17:54	10/15/20 10:28	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-14 (0-2)
Date Collected: 10/08/20 13:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-29
Matrix: Solid
Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	450		0.56	0.26	mg/Kg	☼	10/14/20 17:54	10/15/20 10:32	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-14 (2-4)
Date Collected: 10/08/20 13:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-30
Matrix: Solid
Percent Solids: 85.7

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	710		2.7	1.3	mg/Kg	☼	10/14/20 17:54	10/15/20 11:35	5

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-14 (4-6)
Date Collected: 10/08/20 13:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-31
Matrix: Solid
Percent Solids: 88.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.55	0.25	mg/Kg	☼	10/14/20 17:54	10/15/20 10:38	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-16 (0-2)
Date Collected: 10/08/20 13:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-32
Matrix: Solid
Percent Solids: 89.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	47		0.49	0.22	mg/Kg	☼	10/14/20 17:54	10/15/20 10:41	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-16 (2-4)
Date Collected: 10/08/20 13:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-33
Matrix: Solid
Percent Solids: 84.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	480		0.52	0.24	mg/Kg	☼	10/14/20 17:54	10/15/20 10:51	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-16 (4-5.5)
Date Collected: 10/08/20 13:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-34
Matrix: Solid
Percent Solids: 86.0

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	770		0.54	0.25	mg/Kg	☼	10/14/20 17:54	10/15/20 10:54	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-16 (5.5-6)
Date Collected: 10/08/20 13:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-35
Matrix: Solid
Percent Solids: 85.4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	33		0.49	0.23	mg/Kg	☼	10/14/20 17:54	10/15/20 10:57	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-13 (0-2)
Date Collected: 10/08/20 13:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-36
Matrix: Solid
Percent Solids: 89.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	350		0.53	0.25	mg/Kg	☼	10/14/20 17:54	10/15/20 11:00	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-13 (2-4)
Date Collected: 10/08/20 13:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-37
Matrix: Solid
Percent Solids: 88.2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	420		0.49	0.23	mg/Kg	☼	10/14/20 17:54	10/15/20 11:03	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-13 (4-6)
Date Collected: 10/08/20 14:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-38
Matrix: Solid
Percent Solids: 92.1

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.2		0.50	0.23	mg/Kg	☼	10/14/20 17:54	10/15/20 11:07	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-18 (0-2)
Date Collected: 10/08/20 14:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-39
Matrix: Solid
Percent Solids: 89.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.6		71	8.6	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
2-Methylnaphthalene	<6.5		71	6.5	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Acenaphthene	<6.3		35	6.3	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Acenaphthylene	<4.6		35	4.6	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Anthracene	<5.9		35	5.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Benzo[a]anthracene	<4.7		35	4.7	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Benzo[a]pyrene	<6.8		35	6.8	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Benzo[b]fluoranthene	<7.6		35	7.6	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Benzo[g,h,i]perylene	<11		35	11	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Benzo[k]fluoranthene	<10		35	10	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Chrysene	<9.6		35	9.6	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Dibenz(a,h)anthracene	<6.8		35	6.8	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Fluoranthene	<6.5		35	6.5	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Fluorene	<4.9		35	4.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Indeno[1,2,3-cd]pyrene	<9.1		35	9.1	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Naphthalene	<5.4		35	5.4	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Phenanthrene	<4.9		35	4.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1
Pyrene	<7.0		35	7.0	ug/Kg	☼	10/15/20 06:40	10/15/20 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*68*		*43 - 145*	*10/15/20 06:40*	*10/15/20 17:29*	*1*
Nitrobenzene-d5 (Surr)	*68*		*37 - 147*	*10/15/20 06:40*	*10/15/20 17:29*	*1*
Terphenyl-d14 (Surr)	*109*		*42 - 157*	*10/15/20 06:40*	*10/15/20 17:29*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.2**		1.1	0.37	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Barium	**32**		1.1	0.12	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Cadmium	**0.060**	**J**	0.21	0.039	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Chromium	**15**		1.1	0.53	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Lead	**12**		0.54	0.25	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Selenium	<0.63		1.1	0.63	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	10/14/20 17:54	10/15/20 11:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.012**	**J**	0.017	0.0056	mg/Kg	☼	10/14/20 13:25	10/15/20 10:40	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-18 (2-4)

Date Collected: 10/08/20 14:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-40

Matrix: Solid
Percent Solids: 89.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.9		73	8.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
2-Methylnaphthalene	<6.7		73	6.7	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Acenaphthene	<6.5		36	6.5	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Acenaphthylene	<4.8		36	4.8	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Anthracene	<6.1		36	6.1	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Benzo[a]anthracene	<4.9		36	4.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Benzo[a]pyrene	<7.0		36	7.0	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Benzo[b]fluoranthene	<7.9		36	7.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Benzo[g,h,i]perylene	<12		36	12	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Benzo[k]fluoranthene	<11		36	11	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Chrysene	<9.9		36	9.9	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Dibenz(a,h)anthracene	<7.0		36	7.0	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Fluoranthene	<6.7		36	6.7	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Fluorene	<5.1		36	5.1	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Indeno[1,2,3-cd]pyrene	<9.4		36	9.4	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Naphthalene	<5.6		36	5.6	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Phenanthrene	<5.1		36	5.1	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1
Pyrene	<7.2		36	7.2	ug/Kg	☼	10/15/20 06:40	10/15/20 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*10/15/20 06:40*	*10/15/20 17:56*	*1*
Nitrobenzene-d5 (Surr)	*65*		*37 - 147*	*10/15/20 06:40*	*10/15/20 17:56*	*1*
Terphenyl-d14 (Surr)	*134*		*42 - 157*	*10/15/20 06:40*	*10/15/20 17:56*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.2**		1.1	0.36	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Barium	**28**		1.1	0.12	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Cadmium	**0.14**	**J**	0.21	0.038	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Chromium	**14**		1.1	0.52	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Lead	**8.8**		0.53	0.24	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	10/14/20 17:54	10/15/20 11:13	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.016**	**J**	0.017	0.0056	mg/Kg	☼	10/14/20 13:25	10/15/20 10:42	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-19 (0-2)
Date Collected: 10/08/20 14:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-41
Matrix: Solid
Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	140	J	360	44	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
2-Methylnaphthalene	240	J	360	33	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Acenaphthene	36	J	180	32	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Acenaphthylene	<24		180	24	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Anthracene	44	J	180	30	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Benzo[a]anthracene	320		180	24	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Benzo[a]pyrene	240		180	35	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Benzo[b]fluoranthene	580		180	39	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Benzo[g,h,i]perylene	290		180	58	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Benzo[k]fluoranthene	120	J	180	53	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Chrysene	710		180	49	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Dibenz(a,h)anthracene	210		180	35	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Fluoranthene	290		180	33	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Fluorene	170	J	180	25	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Indeno[1,2,3-cd]pyrene	120	J	180	47	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Naphthalene	100	J	180	28	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Phenanthrene	610		180	25	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5
Pyrene	390		180	36	ug/Kg	☼	10/15/20 06:40	10/15/20 22:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*81*		*43 - 145*	*10/15/20 06:40*	*10/15/20 22:47*	*5*
Nitrobenzene-d5 (Surr)	*80*		*37 - 147*	*10/15/20 06:40*	*10/15/20 22:47*	*5*
Terphenyl-d14 (Surr)	*94*		*42 - 157*	*10/15/20 06:40*	*10/15/20 22:47*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		1.0	0.34	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1
Barium	63		1.0	0.11	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1
Cadmium	0.61	B	0.20	0.036	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1
Chromium	38		1.0	0.50	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1
Lead	420		0.50	0.23	mg/Kg	☼	10/14/20 17:57	10/15/20 11:16	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	10/14/20 17:57	10/15/20 08:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.035		0.017	0.0057	mg/Kg	☼	10/14/20 13:25	10/15/20 10:43	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-19 (2-4)
Date Collected: 10/08/20 14:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-42
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	530	J	4000	490	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
2-Methylnaphthalene	1000	J	4000	370	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Acenaphthene	<360		2000	360	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Acenaphthylene	<260		2000	260	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Anthracene	<340		2000	340	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Benzo[a]anthracene	520	J	2000	270	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Benzo[a]pyrene	390	J	2000	390	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Benzo[b]fluoranthene	850	J	2000	430	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Benzo[g,h,i]perylene	1800	J	2000	650	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Benzo[k]fluoranthene	<590		2000	590	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Chrysene	1300	J	2000	550	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Dibenz(a,h)anthracene	<390		2000	390	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Fluoranthene	780	J	2000	370	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Fluorene	900	J	2000	280	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Indeno[1,2,3-cd]pyrene	<520		2000	520	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Naphthalene	490	J	2000	310	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Phenanthrene	1400	J	2000	280	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50
Pyrene	760	J	2000	400	ug/Kg	☼	10/15/20 06:40	10/15/20 22:21	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*0*	*D*	*43 - 145*	*10/15/20 06:40*	*10/15/20 22:21*	*50*
Nitrobenzene-d5 (Surr)	*0*	*D*	*37 - 147*	*10/15/20 06:40*	*10/15/20 22:21*	*50*
Terphenyl-d14 (Surr)	*0*	*D*	*42 - 157*	*10/15/20 06:40*	*10/15/20 22:21*	*50*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		1.1	0.37	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Barium	160		1.1	0.12	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Cadmium	1.2	B	0.21	0.039	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Chromium	91		1.1	0.53	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Lead	970		0.54	0.25	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Selenium	1.1		1.1	0.63	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	10/14/20 17:57	10/15/20 08:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.098		0.020	0.0066	mg/Kg	☼	10/14/20 13:25	10/15/20 10:45	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-20 (0-2)

Date Collected: 10/08/20 14:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-43

Matrix: Solid
Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	80	J	82	10	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
2-Methylnaphthalene	90		82	7.5	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Acenaphthene	18	J	41	7.3	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Acenaphthylene	12	J	41	5.4	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Anthracene	53		41	6.8	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Benzo[a]anthracene	230		41	5.5	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Benzo[a]pyrene	200		41	7.9	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Benzo[b]fluoranthene	310		41	8.8	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Benzo[g,h,i]perylene	100		41	13	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Benzo[k]fluoranthene	130		41	12	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Chrysene	310		41	11	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Dibenz(a,h)anthracene	51		41	7.9	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Fluoranthene	460		41	7.6	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Fluorene	32	J	41	5.7	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Indeno[1,2,3-cd]pyrene	58		41	11	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Naphthalene	63		41	6.3	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Phenanthrene	320		41	5.7	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1
Pyrene	470		41	8.1	ug/Kg	☼	10/15/20 06:40	10/15/20 23:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*71*		*43 - 145*	*10/15/20 06:40*	*10/15/20 23:14*	*1*
Nitrobenzene-d5 (Surr)	*77*		*37 - 147*	*10/15/20 06:40*	*10/15/20 23:14*	*1*
Terphenyl-d14 (Surr)	*108*		*42 - 157*	*10/15/20 06:40*	*10/15/20 23:14*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		1.2	0.42	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Barium	340		1.2	0.14	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Cadmium	1.9	B	0.24	0.044	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Chromium	160		1.2	0.61	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Lead	1600		0.61	0.28	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Selenium	<0.72		1.2	0.72	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1
Silver	<0.16		0.61	0.16	mg/Kg	☼	10/14/20 17:57	10/15/20 08:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.53		0.020	0.0067	mg/Kg	☼	10/14/20 13:25	10/15/20 10:55	1

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-20 (2-4)
Date Collected: 10/08/20 14:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-44
Matrix: Solid
Percent Solids: 81.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.5		78	9.5	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
2-Methylnaphthalene	<7.2		78	7.2	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Acenaphthene	<7.0		39	7.0	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Acenaphthylene	<5.1		39	5.1	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Anthracene	<6.5		39	6.5	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Benzo[a]anthracene	<5.2		39	5.2	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Benzo[a]pyrene	<7.5		39	7.5	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Benzo[b]fluoranthene	<8.4		39	8.4	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Benzo[g,h,i]perylene	<13		39	13	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Benzo[k]fluoranthene	<11		39	11	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Chrysene	<11		39	11	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Dibenz(a,h)anthracene	<7.5		39	7.5	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Fluoranthene	<7.2		39	7.2	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Fluorene	<5.5		39	5.5	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Indeno[1,2,3-cd]pyrene	<10		39	10	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Naphthalene	<6.0		39	6.0	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Phenanthrene	<5.4		39	5.4	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1
Pyrene	<7.7		39	7.7	ug/Kg	☼	10/15/20 06:40	10/15/20 18:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*55*		*43 - 145*	*10/15/20 06:40*	*10/15/20 18:22*	*1*
Nitrobenzene-d5 (Surr)	*60*		*37 - 147*	*10/15/20 06:40*	*10/15/20 18:22*	*1*
Terphenyl-d14 (Surr)	*105*		*42 - 157*	*10/15/20 06:40*	*10/15/20 18:22*	*1*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.2**		1.1	0.38	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Barium	**55**		1.1	0.13	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Cadmium	<0.040		0.22	0.040	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Chromium	**21**		1.1	0.54	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Lead	**14**		0.55	0.25	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Selenium	<0.65		1.1	0.65	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	10/14/20 17:57	10/15/20 08:24	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.054**		0.019	0.0063	mg/Kg	☼	10/14/20 13:25	10/15/20 10:56	1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate recovery exceeds control limits

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
B	Compound was found in the blank and sample.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
V	Serial Dilution exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

GC/MS Semi VOA

Prep Batch: 566640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-39	B-18 (0-2)	Total/NA	Solid	3541	
500-189109-40	B-18 (2-4)	Total/NA	Solid	3541	
500-189109-41	B-19 (0-2)	Total/NA	Solid	3541	
500-189109-42	B-19 (2-4)	Total/NA	Solid	3541	
500-189109-43	B-20 (0-2)	Total/NA	Solid	3541	
500-189109-44	B-20 (2-4)	Total/NA	Solid	3541	
MB 500-566640/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-566640/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 566770

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-39	B-18 (0-2)	Total/NA	Solid	8270D	566640
500-189109-40	B-18 (2-4)	Total/NA	Solid	8270D	566640
500-189109-41	B-19 (0-2)	Total/NA	Solid	8270D	566640
500-189109-42	B-19 (2-4)	Total/NA	Solid	8270D	566640
500-189109-43	B-20 (0-2)	Total/NA	Solid	8270D	566640
500-189109-44	B-20 (2-4)	Total/NA	Solid	8270D	566640
MB 500-566640/1-A	Method Blank	Total/NA	Solid	8270D	566640
LCS 500-566640/2-A	Lab Control Sample	Total/NA	Solid	8270D	566640

Metals

Prep Batch: 566514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-39	B-18 (0-2)	Total/NA	Solid	7471B	
500-189109-40	B-18 (2-4)	Total/NA	Solid	7471B	
500-189109-41	B-19 (0-2)	Total/NA	Solid	7471B	
500-189109-42	B-19 (2-4)	Total/NA	Solid	7471B	
500-189109-43	B-20 (0-2)	Total/NA	Solid	7471B	
500-189109-44	B-20 (2-4)	Total/NA	Solid	7471B	
MB 500-566514/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-566514/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 566590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	Total/NA	Solid	3050B	
500-189109-2	B-1a (4-6)	Total/NA	Solid	3050B	
500-189109-3	B-2a (2-4)	Total/NA	Solid	3050B	
500-189109-4	B-2a (4-6)	Total/NA	Solid	3050B	
500-189109-5	B-3a (0-2)	Total/NA	Solid	3050B	
500-189109-6	B-3a (4-6)	Total/NA	Solid	3050B	
500-189109-7	B-4a (0-2)	Total/NA	Solid	3050B	
500-189109-8	B-4a (4-6)	Total/NA	Solid	3050B	
500-189109-9	B-5a (2-4)	Total/NA	Solid	3050B	
500-189109-10	B-5a (4-6)	Total/NA	Solid	3050B	
500-189109-11	B-9 (0-2)	Total/NA	Solid	3050B	
500-189109-12	B-9 (2-4)	Total/NA	Solid	3050B	
500-189109-13	B-9 (4-6)	Total/NA	Solid	3050B	
500-189109-14	B-17 (0-2)	Total/NA	Solid	3050B	
500-189109-15	B-17 (2-4)	Total/NA	Solid	3050B	
500-189109-16	B-17 (4-6)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 566590 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-17	B-12 (0-2)	Total/NA	Solid	3050B	
500-189109-18	B-12 (2-4)	Total/NA	Solid	3050B	
500-189109-19	B-12 (4-6)	Total/NA	Solid	3050B	
500-189109-20	B-15 (0-2)	Total/NA	Solid	3050B	
MB 500-566590/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-566590/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-189109-1 MS	B-1a (2-4)	Total/NA	Solid	3050B	
500-189109-1 MSD	B-1a (2-4)	Total/NA	Solid	3050B	
500-189109-1 DU	B-1a (2-4)	Total/NA	Solid	3050B	

Prep Batch: 566591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-21	B-15 (2-4)	Total/NA	Solid	3050B	
500-189109-22	B-15 (4-6)	Total/NA	Solid	3050B	
500-189109-23	B-10 (0-2)	Total/NA	Solid	3050B	
500-189109-24	B-10 (2-4)	Total/NA	Solid	3050B	
500-189109-25	B-10 (4-6)	Total/NA	Solid	3050B	
500-189109-26	B-11 (0-2)	Total/NA	Solid	3050B	
500-189109-27	B-11 (2-4)	Total/NA	Solid	3050B	
500-189109-28	B-11 (4-6)	Total/NA	Solid	3050B	
500-189109-29	B-14 (0-2)	Total/NA	Solid	3050B	
500-189109-30	B-14 (2-4)	Total/NA	Solid	3050B	
500-189109-31	B-14 (4-6)	Total/NA	Solid	3050B	
500-189109-32	B-16 (0-2)	Total/NA	Solid	3050B	
500-189109-33	B-16 (2-4)	Total/NA	Solid	3050B	
500-189109-34	B-16 (4-5.5)	Total/NA	Solid	3050B	
500-189109-35	B-16 (5.5-6)	Total/NA	Solid	3050B	
500-189109-36	B-13 (0-2)	Total/NA	Solid	3050B	
500-189109-37	B-13 (2-4)	Total/NA	Solid	3050B	
500-189109-38	B-13 (4-6)	Total/NA	Solid	3050B	
500-189109-39	B-18 (0-2)	Total/NA	Solid	3050B	
500-189109-40	B-18 (2-4)	Total/NA	Solid	3050B	
MB 500-566591/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-566591/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-189109-21 MS	B-15 (2-4)	Total/NA	Solid	3050B	
500-189109-21 MSD	B-15 (2-4)	Total/NA	Solid	3050B	
500-189109-21 DU	B-15 (2-4)	Total/NA	Solid	3050B	

Prep Batch: 566594

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-41	B-19 (0-2)	Total/NA	Solid	3050B	
500-189109-42	B-19 (2-4)	Total/NA	Solid	3050B	
500-189109-43	B-20 (0-2)	Total/NA	Solid	3050B	
500-189109-44	B-20 (2-4)	Total/NA	Solid	3050B	
MB 500-566594/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-566594/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 566742

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-39	B-18 (0-2)	Total/NA	Solid	7471B	566514
500-189109-40	B-18 (2-4)	Total/NA	Solid	7471B	566514

Metals (Continued)

Analysis Batch: 566742 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-41	B-19 (0-2)	Total/NA	Solid	7471B	566514
500-189109-42	B-19 (2-4)	Total/NA	Solid	7471B	566514
500-189109-43	B-20 (0-2)	Total/NA	Solid	7471B	566514
500-189109-44	B-20 (2-4)	Total/NA	Solid	7471B	566514
MB 500-566514/12-A	Method Blank	Total/NA	Solid	7471B	566514
LCS 500-566514/13-A	Lab Control Sample	Total/NA	Solid	7471B	566514

Analysis Batch: 566747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-41	B-19 (0-2)	Total/NA	Solid	6010C	566594
500-189109-42	B-19 (2-4)	Total/NA	Solid	6010C	566594
500-189109-43	B-20 (0-2)	Total/NA	Solid	6010C	566594
500-189109-44	B-20 (2-4)	Total/NA	Solid	6010C	566594
MB 500-566594/1-A	Method Blank	Total/NA	Solid	6010C	566594
LCS 500-566594/2-A	Lab Control Sample	Total/NA	Solid	6010C	566594

Analysis Batch: 566762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	Total/NA	Solid	6010C	566590
500-189109-2	B-1a (4-6)	Total/NA	Solid	6010C	566590
500-189109-3	B-2a (2-4)	Total/NA	Solid	6010C	566590
500-189109-4	B-2a (4-6)	Total/NA	Solid	6010C	566590
500-189109-5	B-3a (0-2)	Total/NA	Solid	6010C	566590
500-189109-6	B-3a (4-6)	Total/NA	Solid	6010C	566590
500-189109-7	B-4a (0-2)	Total/NA	Solid	6010C	566590
500-189109-8	B-4a (4-6)	Total/NA	Solid	6010C	566590
500-189109-9	B-5a (2-4)	Total/NA	Solid	6010C	566590
500-189109-10	B-5a (4-6)	Total/NA	Solid	6010C	566590
500-189109-11	B-9 (0-2)	Total/NA	Solid	6010C	566590
500-189109-12	B-9 (2-4)	Total/NA	Solid	6010C	566590
500-189109-13	B-9 (4-6)	Total/NA	Solid	6010C	566590
500-189109-14	B-17 (0-2)	Total/NA	Solid	6010C	566590
500-189109-15	B-17 (2-4)	Total/NA	Solid	6010C	566590
500-189109-16	B-17 (4-6)	Total/NA	Solid	6010C	566590
500-189109-17	B-12 (0-2)	Total/NA	Solid	6010C	566590
500-189109-18	B-12 (2-4)	Total/NA	Solid	6010C	566590
500-189109-19	B-12 (4-6)	Total/NA	Solid	6010C	566590
500-189109-20	B-15 (0-2)	Total/NA	Solid	6010C	566590
500-189109-21	B-15 (2-4)	Total/NA	Solid	6010C	566591
500-189109-22	B-15 (4-6)	Total/NA	Solid	6010C	566591
500-189109-23	B-10 (0-2)	Total/NA	Solid	6010C	566591
500-189109-24	B-10 (2-4)	Total/NA	Solid	6010C	566591
500-189109-25	B-10 (4-6)	Total/NA	Solid	6010C	566591
500-189109-26	B-11 (0-2)	Total/NA	Solid	6010C	566591
500-189109-27	B-11 (2-4)	Total/NA	Solid	6010C	566591
500-189109-28	B-11 (4-6)	Total/NA	Solid	6010C	566591
500-189109-29	B-14 (0-2)	Total/NA	Solid	6010C	566591
500-189109-30	B-14 (2-4)	Total/NA	Solid	6010C	566591
500-189109-31	B-14 (4-6)	Total/NA	Solid	6010C	566591
500-189109-32	B-16 (0-2)	Total/NA	Solid	6010C	566591
500-189109-33	B-16 (2-4)	Total/NA	Solid	6010C	566591

Metals (Continued)

Analysis Batch: 566762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-34	B-16 (4-5.5)	Total/NA	Solid	6010C	566591
500-189109-35	B-16 (5.5-6)	Total/NA	Solid	6010C	566591
500-189109-36	B-13 (0-2)	Total/NA	Solid	6010C	566591
500-189109-37	B-13 (2-4)	Total/NA	Solid	6010C	566591
500-189109-38	B-13 (4-6)	Total/NA	Solid	6010C	566591
500-189109-39	B-18 (0-2)	Total/NA	Solid	6010C	566591
500-189109-40	B-18 (2-4)	Total/NA	Solid	6010C	566591
500-189109-41	B-19 (0-2)	Total/NA	Solid	6010C	566594
MB 500-566590/1-A	Method Blank	Total/NA	Solid	6010C	566590
MB 500-566591/1-A	Method Blank	Total/NA	Solid	6010C	566591
LCS 500-566590/2-A	Lab Control Sample	Total/NA	Solid	6010C	566590
LCS 500-566591/2-A	Lab Control Sample	Total/NA	Solid	6010C	566591
500-189109-1 MS	B-1a (2-4)	Total/NA	Solid	6010C	566590
500-189109-1 MSD	B-1a (2-4)	Total/NA	Solid	6010C	566590
500-189109-21 MS	B-15 (2-4)	Total/NA	Solid	6010C	566591
500-189109-21 MSD	B-15 (2-4)	Total/NA	Solid	6010C	566591
500-189109-1 DU	B-1a (2-4)	Total/NA	Solid	6010C	566590
500-189109-21 DU	B-15 (2-4)	Total/NA	Solid	6010C	566591

General Chemistry

Analysis Batch: 566526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	Total/NA	Solid	Moisture	
500-189109-2	B-1a (4-6)	Total/NA	Solid	Moisture	
500-189109-3	B-2a (2-4)	Total/NA	Solid	Moisture	
500-189109-4	B-2a (4-6)	Total/NA	Solid	Moisture	
500-189109-5	B-3a (0-2)	Total/NA	Solid	Moisture	
500-189109-6	B-3a (4-6)	Total/NA	Solid	Moisture	
500-189109-7	B-4a (0-2)	Total/NA	Solid	Moisture	
500-189109-8	B-4a (4-6)	Total/NA	Solid	Moisture	
500-189109-9	B-5a (2-4)	Total/NA	Solid	Moisture	
500-189109-10	B-5a (4-6)	Total/NA	Solid	Moisture	
500-189109-11	B-9 (0-2)	Total/NA	Solid	Moisture	
500-189109-12	B-9 (2-4)	Total/NA	Solid	Moisture	
500-189109-13	B-9 (4-6)	Total/NA	Solid	Moisture	
500-189109-14	B-17 (0-2)	Total/NA	Solid	Moisture	
500-189109-15	B-17 (2-4)	Total/NA	Solid	Moisture	
500-189109-16	B-17 (4-6)	Total/NA	Solid	Moisture	
500-189109-17	B-12 (0-2)	Total/NA	Solid	Moisture	
500-189109-18	B-12 (2-4)	Total/NA	Solid	Moisture	
500-189109-19	B-12 (4-6)	Total/NA	Solid	Moisture	
500-189109-20	B-15 (0-2)	Total/NA	Solid	Moisture	
500-189109-14 DU	B-17 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 566539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-21	B-15 (2-4)	Total/NA	Solid	Moisture	
500-189109-22	B-15 (4-6)	Total/NA	Solid	Moisture	
500-189109-23	B-10 (0-2)	Total/NA	Solid	Moisture	
500-189109-24	B-10 (2-4)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 566539 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-25	B-10 (4-6)	Total/NA	Solid	Moisture	
500-189109-26	B-11 (0-2)	Total/NA	Solid	Moisture	
500-189109-27	B-11 (2-4)	Total/NA	Solid	Moisture	
500-189109-28	B-11 (4-6)	Total/NA	Solid	Moisture	
500-189109-29	B-14 (0-2)	Total/NA	Solid	Moisture	
500-189109-30	B-14 (2-4)	Total/NA	Solid	Moisture	
500-189109-31	B-14 (4-6)	Total/NA	Solid	Moisture	
500-189109-32	B-16 (0-2)	Total/NA	Solid	Moisture	
500-189109-33	B-16 (2-4)	Total/NA	Solid	Moisture	
500-189109-34	B-16 (4-5.5)	Total/NA	Solid	Moisture	
500-189109-35	B-16 (5.5-6)	Total/NA	Solid	Moisture	
500-189109-36	B-13 (0-2)	Total/NA	Solid	Moisture	
500-189109-37	B-13 (2-4)	Total/NA	Solid	Moisture	
500-189109-38	B-13 (4-6)	Total/NA	Solid	Moisture	
500-189109-39	B-18 (0-2)	Total/NA	Solid	Moisture	
500-189109-40	B-18 (2-4)	Total/NA	Solid	Moisture	
500-189109-36 DU	B-13 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 566551

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-41	B-19 (0-2)	Total/NA	Solid	Moisture	
500-189109-42	B-19 (2-4)	Total/NA	Solid	Moisture	
500-189109-43	B-20 (0-2)	Total/NA	Solid	Moisture	
500-189109-44	B-20 (2-4)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)		
		FBP	NBZ	TPHL
Lab Sample ID	Client Sample ID	(43-145)	(37-147)	(42-157)
500-189109-39	B-18 (0-2)	68	68	109
500-189109-40	B-18 (2-4)	71	65	134
500-189109-41	B-19 (0-2)	81	80	94
500-189109-42	B-19 (2-4)	0 D	0 D	0 D
500-189109-43	B-20 (0-2)	71	77	108
500-189109-44	B-20 (2-4)	55	60	105
LCS 500-566640/2-A	Lab Control Sample	96	90	110
MB 500-566640/1-A	Method Blank	110	83	177 X

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-566640/1-A
Matrix: Solid
Analysis Batch: 566770

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566640

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<8.1		67	8.1	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
2-Methylnaphthalene	<6.1		67	6.1	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Acenaphthene	<6.0		33	6.0	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Acenaphthylene	<4.4		33	4.4	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Anthracene	<5.6		33	5.6	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Benzo[a]anthracene	<4.5		33	4.5	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Benzo[a]pyrene	<6.4		33	6.4	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Benzo[b]fluoranthene	<7.2		33	7.2	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Benzo[g,h,i]perylene	<11		33	11	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Benzo[k]fluoranthene	<9.8		33	9.8	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Chrysene	<9.1		33	9.1	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Dibenz(a,h)anthracene	<6.4		33	6.4	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Fluoranthene	<6.2		33	6.2	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Fluorene	<4.7		33	4.7	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Indeno[1,2,3-cd]pyrene	<8.6		33	8.6	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Naphthalene	<5.1		33	5.1	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Phenanthrene	<4.6		33	4.6	ug/Kg		10/15/20 06:40	10/15/20 17:02	1
Pyrene	<6.6		33	6.6	ug/Kg		10/15/20 06:40	10/15/20 17:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl (Surr)	*110*		*43 - 145*	*10/15/20 06:40*	*10/15/20 17:02*	*1*
Nitrobenzene-d5 (Surr)	*83*		*37 - 147*	*10/15/20 06:40*	*10/15/20 17:02*	*1*
Terphenyl-d14 (Surr)	*177*	*X*	*42 - 157*	*10/15/20 06:40*	*10/15/20 17:02*	*1*

Lab Sample ID: LCS 500-566640/2-A
Matrix: Solid
Analysis Batch: 566770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566640

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	1330	1220		ug/Kg		91	68 - 111
2-Methylnaphthalene	1330	1260		ug/Kg		95	69 - 112
Acenaphthene	1330	1260		ug/Kg		95	65 - 124
Acenaphthylene	1330	1320		ug/Kg		99	68 - 120
Anthracene	1330	1370		ug/Kg		103	70 - 114
Benzo[a]anthracene	1330	1350		ug/Kg		101	67 - 122
Benzo[a]pyrene	1330	1300		ug/Kg		97	65 - 133
Benzo[b]fluoranthene	1330	1310		ug/Kg		98	69 - 129
Benzo[g,h,i]perylene	1330	1370		ug/Kg		103	72 - 131
Benzo[k]fluoranthene	1330	1200		ug/Kg		90	68 - 127
Chrysene	1330	1400		ug/Kg		105	63 - 120
Dibenz(a,h)anthracene	1330	1320		ug/Kg		99	64 - 131
Fluoranthene	1330	1340		ug/Kg		100	62 - 120
Fluorene	1330	1160		ug/Kg		87	62 - 120
Indeno[1,2,3-cd]pyrene	1330	1450		ug/Kg		109	68 - 130
Naphthalene	1330	1230		ug/Kg		92	63 - 110
Phenanthrene	1330	1310		ug/Kg		99	62 - 120
Pyrene	1330	1420		ug/Kg		106	61 - 128

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-566640/2-A
Matrix: Solid
Analysis Batch: 566770

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566640

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl (Surr)	*96*		*43 - 145*
Nitrobenzene-d5 (Surr)	*90*		*37 - 147*
Terphenyl-d14 (Surr)	*110*		*42 - 157*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 500-566590/1-A
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566590

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		10/14/20 17:50	10/15/20 07:54	1

Lab Sample ID: LCS 500-566590/2-A
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566590

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.35		mg/Kg		93	80 - 120

Lab Sample ID: 500-189109-1 MS
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-1a (2-4)
Prep Type: Total/NA
Prep Batch: 566590

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	210	F2 V	9.60	217	4	mg/Kg	☼	54	75 - 125

Lab Sample ID: 500-189109-1 MSD
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-1a (2-4)
Prep Type: Total/NA
Prep Batch: 566590

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	210	F2 V	10.6	124	4 F2	mg/Kg	☼	-834	75 - 125	55	20

Lab Sample ID: 500-189109-1 DU
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-1a (2-4)
Prep Type: Total/NA
Prep Batch: 566590

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	210	F2 V	113	F3	mg/Kg	☼	61	20

Lab Sample ID: MB 500-566591/1-A
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		10/14/20 17:54	10/15/20 09:41	1
Barium	<0.11		1.0	0.11	mg/Kg		10/14/20 17:54	10/15/20 09:41	1
Cadmium	<0.036		0.20	0.036	mg/Kg		10/14/20 17:54	10/15/20 09:41	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/14/20 17:54	10/15/20 09:41	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: MB 500-566591/1-A
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		10/14/20 17:54	10/15/20 09:41	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/14/20 17:54	10/15/20 09:41	1
Silver	<0.13		0.50	0.13	mg/Kg		10/14/20 17:54	10/15/20 09:41	1

Lab Sample ID: LCS 500-566591/2-A
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.00		mg/Kg		90	80 - 120
Barium	200	190		mg/Kg		95	80 - 120
Cadmium	5.00	4.43		mg/Kg		89	80 - 120
Chromium	20.0	18.0		mg/Kg		90	80 - 120
Lead	10.0	9.40		mg/Kg		94	80 - 120
Selenium	10.0	8.52		mg/Kg		85	80 - 120
Silver	5.00	4.41		mg/Kg		88	80 - 120

Lab Sample ID: 500-189109-21 MS
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-15 (2-4)
Prep Type: Total/NA
Prep Batch: 566591

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.2		9.97	15.9		mg/Kg	☼	87	75 - 125
Barium	49	V	199	243		mg/Kg	☼	97	75 - 125
Cadmium	0.21		4.98	4.44		mg/Kg	☼	85	75 - 125
Chromium	14		19.9	34.1		mg/Kg	☼	100	75 - 125
Lead	44	V	9.97	62.9	4	mg/Kg	☼	184	75 - 125
Selenium	<0.60		9.97	8.57		mg/Kg	☼	86	75 - 125
Silver	<0.13		4.98	3.88		mg/Kg	☼	78	75 - 125

Lab Sample ID: 500-189109-21 MSD
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-15 (2-4)
Prep Type: Total/NA
Prep Batch: 566591

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.2		10.3	15.9		mg/Kg	☼	85	75 - 125	0	20
Barium	49	V	207	247		mg/Kg	☼	96	75 - 125	2	20
Cadmium	0.21		5.17	4.47		mg/Kg	☼	82	75 - 125	1	20
Chromium	14		20.7	34.5		mg/Kg	☼	99	75 - 125	1	20
Lead	44	V	10.3	68.9	4	mg/Kg	☼	237	75 - 125	9	20
Selenium	<0.60		10.3	8.61		mg/Kg	☼	83	75 - 125	0	20
Silver	<0.13		5.17	4.07		mg/Kg	☼	79	75 - 125	5	20

Lab Sample ID: 500-189109-21 DU
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-15 (2-4)
Prep Type: Total/NA
Prep Batch: 566591

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	7.2		6.98		mg/Kg	☼	3	20
Barium	49	V	50.4		mg/Kg	☼	2	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 500-189109-21 DU
Matrix: Solid
Analysis Batch: 566762

Client Sample ID: B-15 (2-4)
Prep Type: Total/NA
Prep Batch: 566591

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.21		0.209		mg/Kg	☼	1	20
Chromium	14		14.6		mg/Kg	☼	3	20
Lead	44	V	66.7	F3	mg/Kg	☼	40	20
Selenium	<0.60		<0.55		mg/Kg	☼	NC	20
Silver	<0.13		<0.12		mg/Kg	☼	NC	20

Lab Sample ID: MB 500-566594/1-A
Matrix: Solid
Analysis Batch: 566747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566594

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Barium	<0.11		1.0	0.11	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Cadmium	0.0557	J	0.20	0.036	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Chromium	<0.50		1.0	0.50	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Lead	<0.23		0.50	0.23	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Selenium	<0.59		1.0	0.59	mg/Kg		10/14/20 17:57	10/15/20 07:54	1
Silver	<0.13		0.50	0.13	mg/Kg		10/14/20 17:57	10/15/20 07:54	1

Lab Sample ID: LCS 500-566594/2-A
Matrix: Solid
Analysis Batch: 566747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566594

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.65		mg/Kg		96	80 - 120
Barium	200	197		mg/Kg		98	80 - 120
Cadmium	5.00	4.53		mg/Kg		91	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Lead	10.0	9.20		mg/Kg		92	80 - 120
Selenium	10.0	8.83		mg/Kg		88	80 - 120
Silver	5.00	4.50		mg/Kg		90	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-566514/12-A
Matrix: Solid
Analysis Batch: 566742

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 566514

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		10/14/20 13:25	10/15/20 09:59	1

Lab Sample ID: LCS 500-566514/13-A
Matrix: Solid
Analysis Batch: 566742

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 566514

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.177		mg/Kg		106	80 - 120

Client Sample ID: B-1a (2-4) — **Lab Sample ID: 500-189109-1**
Date Collected: 10/08/20 10:30 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-1a (2-4) — **Lab Sample ID: 500-189109-1**
Date Collected: 10/08/20 10:30 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 88.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:01	JEF	TAL CHI

Client Sample ID: B-1a (4-6) — **Lab Sample ID: 500-189109-2**
Date Collected: 10/08/20 10:35 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-1a (4-6) — **Lab Sample ID: 500-189109-2**
Date Collected: 10/08/20 10:35 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 83.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:23	JEF	TAL CHI

Client Sample ID: B-2a (2-4) — **Lab Sample ID: 500-189109-3**
Date Collected: 10/08/20 10:50 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-2a (2-4) — **Lab Sample ID: 500-189109-3**
Date Collected: 10/08/20 10:50 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 87.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:27	JEF	TAL CHI

Client Sample ID: B-2a (4-6) — **Lab Sample ID: 500-189109-4**
Date Collected: 10/08/20 10:55 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-2a (4-6)
Date Collected: 10/08/20 10:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-4
Matrix: Solid
Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:30	JEF	TAL CHI

Client Sample ID: B-3a (0-2)
Date Collected: 10/08/20 11:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-3a (0-2)
Date Collected: 10/08/20 11:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-5
Matrix: Solid
Percent Solids: 81.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		5	566762	10/15/20 11:20	JEF	TAL CHI

Client Sample ID: B-3a (4-6)
Date Collected: 10/08/20 11:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-3a (4-6)
Date Collected: 10/08/20 11:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-6
Matrix: Solid
Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:36	JEF	TAL CHI

Client Sample ID: B-4a (0-2)
Date Collected: 10/08/20 11:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-4a (0-2)
Lab Sample ID: 500-189109-7
Date Collected: 10/08/20 11:25
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:40	JEF	TAL CHI

Client Sample ID: B-4a (4-6)
Lab Sample ID: 500-189109-8
Date Collected: 10/08/20 11:30
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-4a (4-6)
Lab Sample ID: 500-189109-8
Date Collected: 10/08/20 11:30
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:43	JEF	TAL CHI

Client Sample ID: B-5a (2-4)
Lab Sample ID: 500-189109-9
Date Collected: 10/08/20 11:40
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-5a (2-4)
Lab Sample ID: 500-189109-9
Date Collected: 10/08/20 11:40
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:46	JEF	TAL CHI

Client Sample ID: B-5a (4-6)
Lab Sample ID: 500-189109-10
Date Collected: 10/08/20 11:45
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-5a (4-6)
Lab Sample ID: 500-189109-10

Date Collected: 10/08/20 11:45
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 08:56	JEF	TAL CHI

Client Sample ID: B-9 (0-2)
Lab Sample ID: 500-189109-11

Date Collected: 10/08/20 11:00
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-9 (0-2)
Lab Sample ID: 500-189109-11

Date Collected: 10/08/20 11:00
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		5	566762	10/15/20 11:29	JEF	TAL CHI

Client Sample ID: B-9 (2-4)
Lab Sample ID: 500-189109-12

Date Collected: 10/08/20 11:05
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-9 (2-4)
Lab Sample ID: 500-189109-12

Date Collected: 10/08/20 11:05
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:02	JEF	TAL CHI

Client Sample ID: B-9 (4-6)
Lab Sample ID: 500-189109-13

Date Collected: 10/08/20 11:10
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-9 (4-6)
Date Collected: 10/08/20 11:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-13
Matrix: Solid
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:05	JEF	TAL CHI

Client Sample ID: B-17 (0-2)
Date Collected: 10/08/20 12:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-17 (0-2)
Date Collected: 10/08/20 12:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-14
Matrix: Solid
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:08	JEF	TAL CHI

Client Sample ID: B-17 (2-4)
Date Collected: 10/08/20 12:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-17 (2-4)
Date Collected: 10/08/20 12:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-15
Matrix: Solid
Percent Solids: 83.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		5	566762	10/15/20 11:32	JEF	TAL CHI

Client Sample ID: B-17 (4-6)
Date Collected: 10/08/20 12:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-17 (4-6)
Lab Sample ID: 500-189109-16

Date Collected: 10/08/20 12:10
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:15	JEF	TAL CHI

Client Sample ID: B-12 (0-2)
Lab Sample ID: 500-189109-17

Date Collected: 10/08/20 12:15
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-12 (0-2)
Lab Sample ID: 500-189109-17

Date Collected: 10/08/20 12:15
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:18	JEF	TAL CHI

Client Sample ID: B-12 (2-4)
Lab Sample ID: 500-189109-18

Date Collected: 10/08/20 12:20
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-12 (2-4)
Lab Sample ID: 500-189109-18

Date Collected: 10/08/20 12:20
Matrix: Solid
Date Received: 10/09/20 09:40
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:21	JEF	TAL CHI

Client Sample ID: B-12 (4-6)
Lab Sample ID: 500-189109-19

Date Collected: 10/08/20 12:25
Matrix: Solid
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-12 (4-6)
Date Collected: 10/08/20 12:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-19
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:24	JEF	TAL CHI

Client Sample ID: B-15 (0-2)
Date Collected: 10/08/20 12:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566526	10/14/20 12:12	LWN	TAL CHI

Client Sample ID: B-15 (0-2)
Date Collected: 10/08/20 12:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-20
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566590	10/14/20 17:50	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:34	JEF	TAL CHI

Client Sample ID: B-15 (2-4)
Date Collected: 10/08/20 12:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-21
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-15 (2-4)
Date Collected: 10/08/20 12:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-21
Matrix: Solid
Percent Solids: 90.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 09:47	JEF	TAL CHI

Client Sample ID: B-15 (4-6)
Date Collected: 10/08/20 12:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-15 (4-6) — **Lab Sample ID: 500-189109-22**
Date Collected: 10/08/20 12:40 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 89.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:03	JEF	TAL CHI

Client Sample ID: B-10 (0-2) — **Lab Sample ID: 500-189109-23**
Date Collected: 10/08/20 12:45 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-10 (0-2) — **Lab Sample ID: 500-189109-23**
Date Collected: 10/08/20 12:45 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 89.8**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:13	JEF	TAL CHI

Client Sample ID: B-10 (2-4) — **Lab Sample ID: 500-189109-24**
Date Collected: 10/08/20 12:50 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-10 (2-4) — **Lab Sample ID: 500-189109-24**
Date Collected: 10/08/20 12:50 — **Matrix: Solid**
Date Received: 10/09/20 09:40 — **Percent Solids: 83.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:16	JEF	TAL CHI

Client Sample ID: B-10 (4-6) — **Lab Sample ID: 500-189109-25**
Date Collected: 10/08/20 12:55 — **Matrix: Solid**
Date Received: 10/09/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-10 (4-6)
Date Collected: 10/08/20 12:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-25
Matrix: Solid
Percent Solids: 80.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:19	JEF	TAL CHI

Client Sample ID: B-11 (0-2)
Date Collected: 10/08/20 13:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-11 (0-2)
Date Collected: 10/08/20 13:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-26
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:22	JEF	TAL CHI

Client Sample ID: B-11 (2-4)
Date Collected: 10/08/20 13:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-27
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-11 (2-4)
Date Collected: 10/08/20 13:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-27
Matrix: Solid
Percent Solids: 80.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:25	JEF	TAL CHI

Client Sample ID: B-11 (4-6)
Date Collected: 10/08/20 13:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-11 (4-6)
Date Collected: 10/08/20 13:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-28
Matrix: Solid
Percent Solids: 82.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:28	JEF	TAL CHI

Client Sample ID: B-14 (0-2)
Date Collected: 10/08/20 13:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-14 (0-2)
Date Collected: 10/08/20 13:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-29
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:32	JEF	TAL CHI

Client Sample ID: B-14 (2-4)
Date Collected: 10/08/20 13:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-14 (2-4)
Date Collected: 10/08/20 13:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-30
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		5	566762	10/15/20 11:35	JEF	TAL CHI

Client Sample ID: B-14 (4-6)
Date Collected: 10/08/20 13:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-14 (4-6)
Date Collected: 10/08/20 13:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-31
Matrix: Solid
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:38	JEF	TAL CHI

Client Sample ID: B-16 (0-2)
Date Collected: 10/08/20 13:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-16 (0-2)
Date Collected: 10/08/20 13:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-32
Matrix: Solid
Percent Solids: 89.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:41	JEF	TAL CHI

Client Sample ID: B-16 (2-4)
Date Collected: 10/08/20 13:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-16 (2-4)
Date Collected: 10/08/20 13:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-33
Matrix: Solid
Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:51	JEF	TAL CHI

Client Sample ID: B-16 (4-5.5)
Date Collected: 10/08/20 13:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000

Job ID: 500-189109-1

Client Sample ID: B-16 (4-5.5)
Date Collected: 10/08/20 13:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-34
Matrix: Solid
Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:54	JEF	TAL CHI

Client Sample ID: B-16 (5.5-6)
Date Collected: 10/08/20 13:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-35
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-16 (5.5-6)
Date Collected: 10/08/20 13:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-35
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 10:57	JEF	TAL CHI

Client Sample ID: B-13 (0-2)
Date Collected: 10/08/20 13:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-13 (0-2)
Date Collected: 10/08/20 13:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-36
Matrix: Solid
Percent Solids: 89.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:00	JEF	TAL CHI

Client Sample ID: B-13 (2-4)
Date Collected: 10/08/20 13:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-13 (2-4)
Date Collected: 10/08/20 13:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-37
Matrix: Solid
Percent Solids: 88.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:03	JEF	TAL CHI

Client Sample ID: B-13 (4-6)
Date Collected: 10/08/20 14:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-38
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-13 (4-6)
Date Collected: 10/08/20 14:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-38
Matrix: Solid
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:07	JEF	TAL CHI

Client Sample ID: B-18 (0-2)
Date Collected: 10/08/20 14:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-39
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-18 (0-2)
Date Collected: 10/08/20 14:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-39
Matrix: Solid
Percent Solids: 89.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		1	566770	10/15/20 17:29	NRJ	TAL CHI
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:10	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:40	MJG	TAL CHI

Client Sample ID: B-18 (2-4)
Date Collected: 10/08/20 14:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566539	10/14/20 13:51	LWN	TAL CHI

Client Sample ID: B-18 (2-4)
Date Collected: 10/08/20 14:10
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-40
Matrix: Solid
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		1	566770	10/15/20 17:56	NRJ	TAL CHI
Total/NA	Prep	3050B			566591	10/14/20 17:54	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:13	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:42	MJG	TAL CHI

Client Sample ID: B-19 (0-2)
Date Collected: 10/08/20 14:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566551	10/14/20 14:37	LWN	TAL CHI

Client Sample ID: B-19 (0-2)
Date Collected: 10/08/20 14:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-41
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		5	566770	10/15/20 22:47	NRJ	TAL CHI
Total/NA	Prep	3050B			566594	10/14/20 17:57	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566762	10/15/20 11:16	JEF	TAL CHI
Total/NA	Prep	3050B			566594	10/14/20 17:57	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566747	10/15/20 08:14	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:43	MJG	TAL CHI

Client Sample ID: B-19 (2-4)
Date Collected: 10/08/20 14:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566551	10/14/20 14:37	LWN	TAL CHI

Client Sample ID: B-19 (2-4)
Date Collected: 10/08/20 14:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-42
Matrix: Solid
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		50	566770	10/15/20 22:21	NRJ	TAL CHI
Total/NA	Prep	3050B			566594	10/14/20 17:57	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566747	10/15/20 08:17	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:45	MJG	TAL CHI

Client Sample ID: B-20 (0-2)
Date Collected: 10/08/20 14:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566551	10/14/20 14:37	LWN	TAL CHI

Client Sample ID: B-20 (0-2)
Date Collected: 10/08/20 14:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-43
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		1	566770	10/15/20 23:14	NRJ	TAL CHI
Total/NA	Prep	3050B			566594	10/14/20 17:57	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566747	10/15/20 08:20	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:55	MJG	TAL CHI

Client Sample ID: B-20 (2-4)
Date Collected: 10/08/20 14:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-44
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	566551	10/14/20 14:37	LWN	TAL CHI

Client Sample ID: B-20 (2-4)
Date Collected: 10/08/20 14:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-44
Matrix: Solid
Percent Solids: 81.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			566640	10/15/20 06:40	CMC	TAL CHI
Total/NA	Analysis	8270D		1	566770	10/15/20 18:22	NRJ	TAL CHI
Total/NA	Prep	3050B			566594	10/14/20 17:57	BDE	TAL CHI
Total/NA	Analysis	6010C		1	566747	10/15/20 08:24	JEF	TAL CHI
Total/NA	Prep	7471B			566514	10/14/20 13:25	MJG	TAL CHI
Total/NA	Analysis	7471B		1	566742	10/15/20 10:56	MJG	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Job ID: 500-189109-1
Project/Site: WisDOT I-43 341633.0000

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information
Client Contact: Ted O'Connell
Company: TRC Environmental Corporation
Address: 708 Heartland Trail Suite 3000
City: Madison
State, Zip: WI, 53717
Phone:
Email: TOConnell@trccompanies.com
Project Name: WisDOT I-43 - PN 341633 0000
Site: Milwaukee, WI

500-189109 COC

Sampler: Ben Wachholz
Phone:
Lab PM: Fredrick, Sandie
E-Mail: sandra.fredrick@eurofinset.com
Carrier Tracking No(s):
COC No: 500-85920-38826.1
Page: Page 1 of 14
Job #: 500-189109

Due Date Requested:
TAT Requested (days): 5 day TAT
PO #: Purchase Order Requested
WO #:
Project #: 50017486
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O8, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
1	B-1a (2-4)	10/8/20	10:30	G	Solid	N	N		X	1	
2	B-1a (4-6)	10/8/20	10:35	G	Solid	N	N		X	1	
3	B-2a (2-4)	10/8/20	10:50	G	Solid	N	N		X	1	
4	B-2a (4-6)	10/8/20	10:55	G	Solid	N	N		X	1	
5	B-3a (0-2)	10/8/20	11:15	G	Solid	N	N		X	1	
6	B-3a (4-6)	10/8/20	11:20	G	Solid	N	N		X	1	
7	B-4a (0-2)	10/8/20	11:25	G	Solid	N	N		X	1	
8	B-4a (4-6)	10/8/20	11:30	G	Solid	N	N		X	1	
9	B-5a (2-4)	10/8/20	11:40	G	Solid	N	N		X	1	
10	B-5a (4-6)	10/8/20	11:45	G	Solid	N	N		X	1	
11	B-9 (0-2)	10/8/20	11:00	G	Solid	N	N		X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Ben Wachholz	10/8/2020 16:50	TRC		10/9/20 0940	TA-CHI
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone. 708-534-5200 Fax. 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38826.2
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 2 of 4
Company: TRC Environmental Corporation				Job #: 500-189109
Address: 708 Heartland Trail Suite 3000	Due Date Requested:			
City: Madison	TAT Requested (days): 5 day TAT			
State, Zip: WI, 53717	PO #: Purchase Order Requested			
Phone:	WO #:			
Email: TOConnell@trccompanies.com	Project #: 50017486			
Project Name: WisDOT I-43 - PN 341633.0000	SSOW#:			
Site: Milwaukee, WI				

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2O3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - pH 4-5; Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
12	B-9 (2-4)	10/8/20	11:05	G	Solid	N	N		X	1	
13	B-9 (4-6)	10/8/20	11:10	G	Solid					1	
14	B-17 (0-2)	10/8/20	12:00	G	Solid					1	
15	B-17 (2-4)	10/8/20	12:05	G	Solid					1	
16	B-17 (4-6)	10/8/20	12:10	G	Solid					1	
17	B-12 (0-2)	10/8/20	12:15	G	Solid					1	
18	B-12 (2-4)	10/8/20	12:20	G	Solid					1	
19	B-12 (4-6)	10/8/20	12:25	G	Solid					1	
20	B-15 (0-2)	10/8/20	12:30	G	Solid					1	
21	B-15 (2-4)	10/8/20	12:35	G	Solid					1	
22	B-15 (4-6)	10/8/20	12:40	G	Solid	↓	↓		↓	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ben Wachholz	10/8/2020 16:50	TRC	Shin Scott	10/9/20 0940	TA-CHI
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38826.3
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 3 of 14
Company: TRC Environmental Corporation		Analysis Requested		Job #: 500-189109
Address: 708 Heartland Trail Suite 3000	Due Date Requested:			Preservation Codes:
City: Madison	TAT Requested (days): 5 day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53717	PO #: Purchase Order Requested			
Phone:	WO #:			
Email: TOConnell@trccompanies.com	Project #: 50017486			Other:
Project Name: WisDOT I-43 - PN 341633 0000	SSOW#:			
Site: Milwaukee, WI				

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
23	B-10 (0-2)	10/8/20	12:45	G	Solid	N	N		X	1	
24	B-10 (2-4)	10/8/20	12:50	G	Solid					1	
25	B-10 (4-6)	10/8/20	12:55	G	Solid					1	
26	B-11 (0-2)	10/8/20	13:00	G	Solid					1	
27	B-11 (2-4)	10/8/20	13:05	G	Solid					1	
28	B-11 (4-6)	10/8/20	13:10	G	Solid					1	
29	B-14 (0-2)	10/8/20	13:15	G	Solid					1	
30	B-14 (2-4)	10/8/20	13:20	G	Solid					1	
31	B-14 (4-6)	10/8/20	13:25	G	Solid					1	
32	B-16 (0-2)	10/8/20	13:30	G	Solid					1	
33	B-16 (2-4)	10/8/20	13:35	G	Solid					1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ben Wachholz	10/8/2020 16:50	TRC	Afton Scott	10/9/20 0940	TAECHL
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38626.4
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 4 of 14
Company: TRC Environmental Corporation				Job #: 500-189109

Address	Due Date Requested:
708 Heartland Trail Suite 3000	
City: Madison	TAT Requested (days): 5 day TAT
State, Zip: WI, 53717	
Phone:	PO #: Purchase Order Requested
Email: TOConnell@trccompanies.com	WO #:
Project Name: WisDOT I-43 - PN 341633.0000	Project #: 50017486
Site: Milwaukee, WI	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
34	~~B-16 (4-6)~~ EDD B-16 (4-5.5)	10/8/20	13:40	G	Solid	N	N		X	1	
35	B-16 (5.5-6)	10/8/20	13:45	G	Solid				X	1	
36	B-13 (0-2)	10/8/20	13:50	G	Solid				X	1	
37	B-13 (2-4)	10/8/20	13:55	G	Solid				X	1	
38	B-13 (4-6)	10/8/20	14:00	G	Solid				X	1	
39	B-18 (0-2)	10/8/20	14:05	G	Solid			X		1	
40	B-18 (2-4)	10/8/20	14:10	G	Solid			X		1	
41	B-19 (0-2)	10/8/20	14:15	G	Solid			X		1	
42	B-19 (2-4)	10/8/20	14:20	G	Solid			X		1	
43	B-20 (0-2)	10/8/20	14:25	G	Solid			X		1	
44	B-20 (2-4)	10/8/20	14:30	G	Solid			X		1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ben Wachholz	10/8/2020 1650	TRC	~~Fedex~~		
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				Rhini Koots	10/9/20 0940	TA-CHI
3	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver 01 16/2019

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-189109-1

Login Number: 189109
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-189109-2
Client Project/Site: WisDOT I-43 341633.0000 TCLP

For:
TRC Environmental Corporation
708 Heartland Trail
Suite 3000
Madison, Wisconsin 53717

Attn: Ted O'Connell

Authorized for release by:
10/21/2020 2:58:20 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 500-189109-2

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative
500-189109-2

Comments
No additional comments.

Receipt
The samples were received on 10/9/2020 9:40 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.9º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-1a (2-4) — Lab Sample ID: 500-189109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.022	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-2a (2-4) — Lab Sample ID: 500-189109-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.12		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-3a (0-2) — Lab Sample ID: 500-189109-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.9		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-3a (4-6) — Lab Sample ID: 500-189109-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.067		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-4a (0-2) — Lab Sample ID: 500-189109-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.26		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-9 (0-2) — Lab Sample ID: 500-189109-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-17 (0-2) — Lab Sample ID: 500-189109-14

No Detections.

Client Sample ID: B-17 (2-4) — Lab Sample ID: 500-189109-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.13		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-12 (0-2) — Lab Sample ID: 500-189109-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.015	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-12 (2-4) — Lab Sample ID: 500-189109-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.028	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-15 (0-2) — Lab Sample ID: 500-189109-20

No Detections.

Client Sample ID: B-10 (0-2) — Lab Sample ID: 500-189109-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.0098	J	0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-11 (0-2) — Lab Sample ID: 500-189109-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.036	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-14 (0-2) — Lab Sample ID: 500-189109-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.054		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-14 (2-4) — Lab Sample ID: 500-189109-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.12		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-16 (2-4) — Lab Sample ID: 500-189109-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.12		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-16 (4-5.5) — Lab Sample ID: 500-189109-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.3		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-13 (0-2) — Lab Sample ID: 500-189109-36

No Detections.

Client Sample ID: B-13 (2-4) — Lab Sample ID: 500-189109-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.037	J	0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-19 (0-2) — Lab Sample ID: 500-189109-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.074		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-19 (2-4) — Lab Sample ID: 500-189109-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.78		0.050	0.0075	mg/L	1		6010B	TCLP

Client Sample ID: B-20 (0-2) — Lab Sample ID: 500-189109-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.33		0.050	0.0075	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL CHI
1311	TCLP Extraction	SW846	TAL CHI
3010A	Preparation, Total Metals	SW846	TAL CHI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
500-189109-1	B-1a (2-4)	Solid	10/08/20 10:30	10/09/20 09:40	
500-189109-3	B-2a (2-4)	Solid	10/08/20 10:50	10/09/20 09:40	
500-189109-5	B-3a (0-2)	Solid	10/08/20 11:15	10/09/20 09:40	
500-189109-6	B-3a (4-6)	Solid	10/08/20 11:20	10/09/20 09:40	
500-189109-7	B-4a (0-2)	Solid	10/08/20 11:25	10/09/20 09:40	
500-189109-11	B-9 (0-2)	Solid	10/08/20 11:00	10/09/20 09:40	
500-189109-14	B-17 (0-2)	Solid	10/08/20 12:00	10/09/20 09:40	
500-189109-15	B-17 (2-4)	Solid	10/08/20 12:05	10/09/20 09:40	
500-189109-17	B-12 (0-2)	Solid	10/08/20 12:15	10/09/20 09:40	
500-189109-18	B-12 (2-4)	Solid	10/08/20 12:20	10/09/20 09:40	
500-189109-20	B-15 (0-2)	Solid	10/08/20 12:30	10/09/20 09:40	
500-189109-23	B-10 (0-2)	Solid	10/08/20 12:45	10/09/20 09:40	
500-189109-26	B-11 (0-2)	Solid	10/08/20 13:00	10/09/20 09:40	
500-189109-29	B-14 (0-2)	Solid	10/08/20 13:15	10/09/20 09:40	
500-189109-30	B-14 (2-4)	Solid	10/08/20 13:20	10/09/20 09:40	
500-189109-33	B-16 (2-4)	Solid	10/08/20 13:35	10/09/20 09:40	
500-189109-34	B-16 (4-5.5)	Solid	10/08/20 13:40	10/09/20 09:40	
500-189109-36	B-13 (0-2)	Solid	10/08/20 13:50	10/09/20 09:40	
500-189109-37	B-13 (2-4)	Solid	10/08/20 13:55	10/09/20 09:40	
500-189109-41	B-19 (0-2)	Solid	10/08/20 14:15	10/09/20 09:40	
500-189109-42	B-19 (2-4)	Solid	10/08/20 14:20	10/09/20 09:40	
500-189109-43	B-20 (0-2)	Solid	10/08/20 14:25	10/09/20 09:40	

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-1a (2-4)
Lab Sample ID: 500-189109-1
Date Collected: 10/08/20 10:30
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.022	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:28	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-2a (2-4)
Lab Sample ID: 500-189109-3
Date Collected: 10/08/20 10:50
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:31	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-3a (0-2)
Lab Sample ID: 500-189109-5
Date Collected: 10/08/20 11:15
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.9		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:34	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-3a (4-6)
Date Collected: 10/08/20 11:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-6
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.067		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:37	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-4a (0-2)
Date Collected: 10/08/20 11:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-7
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.26		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:40	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-9 (0-2)
Lab Sample ID: 500-189109-11
Date Collected: 10/08/20 11:00
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:43	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-17 (0-2)
Lab Sample ID: 500-189109-14
Date Collected: 10/08/20 12:00
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:46	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-17 (2-4)
Lab Sample ID: 500-189109-15
Date Collected: 10/08/20 12:05
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.13		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:49	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-12 (0-2)
Lab Sample ID: 500-189109-17
Date Collected: 10/08/20 12:15
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.015	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:58	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-12 (2-4)
Lab Sample ID: 500-189109-18
Date Collected: 10/08/20 12:20
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.028	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:01	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-15 (0-2)
Lab Sample ID: 500-189109-20
Date Collected: 10/08/20 12:30
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:04	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-10 (0-2)
Lab Sample ID: 500-189109-23
Date Collected: 10/08/20 12:45
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0098	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:07	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-11 (0-2)
Lab Sample ID: 500-189109-26
Date Collected: 10/08/20 13:00
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.036	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:10	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-14 (0-2)

Date Collected: 10/08/20 13:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-29

Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.054		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:13	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-14 (2-4)
Lab Sample ID: 500-189109-30
Date Collected: 10/08/20 13:20
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:16	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-16 (2-4)
Lab Sample ID: 500-189109-33
Date Collected: 10/08/20 13:35
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.12		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:19	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-16 (4-5.5)
Lab Sample ID: 500-189109-34
Date Collected: 10/08/20 13:40
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:22	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-13 (0-2)
Date Collected: 10/08/20 13:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-36
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:25	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-13 (2-4)
Lab Sample ID: 500-189109-37
Date Collected: 10/08/20 13:55
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.037	J	0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:35	1

Client Sample Results

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-19 (0-2)
Date Collected: 10/08/20 14:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-41
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.074		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 12:38	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-19 (2-4)
Lab Sample ID: 500-189109-42
Date Collected: 10/08/20 14:20
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.78		0.050	0.0075	mg/L		10/20/20 16:58	10/21/20 10:30	1

Client Sample Results

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Client Sample ID: B-20 (0-2)
Lab Sample ID: 500-189109-43
Date Collected: 10/08/20 14:25
Matrix: Solid
Date Received: 10/09/20 09:40

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.33		0.050	0.0075	mg/L		10/20/20 16:58	10/21/20 10:33	1

Definitions/Glossary

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Qualifiers

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Metals

Leach Batch: 567308

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	TCLP	Solid	1311	
500-189109-3	B-2a (2-4)	TCLP	Solid	1311	
500-189109-5	B-3a (0-2)	TCLP	Solid	1311	
500-189109-6	B-3a (4-6)	TCLP	Solid	1311	
500-189109-7	B-4a (0-2)	TCLP	Solid	1311	
500-189109-11	B-9 (0-2)	TCLP	Solid	1311	
500-189109-14	B-17 (0-2)	TCLP	Solid	1311	
500-189109-15	B-17 (2-4)	TCLP	Solid	1311	
500-189109-17	B-12 (0-2)	TCLP	Solid	1311	
500-189109-18	B-12 (2-4)	TCLP	Solid	1311	
500-189109-20	B-15 (0-2)	TCLP	Solid	1311	
500-189109-23	B-10 (0-2)	TCLP	Solid	1311	
500-189109-26	B-11 (0-2)	TCLP	Solid	1311	
500-189109-29	B-14 (0-2)	TCLP	Solid	1311	
500-189109-30	B-14 (2-4)	TCLP	Solid	1311	
500-189109-33	B-16 (2-4)	TCLP	Solid	1311	
500-189109-34	B-16 (4-5.5)	TCLP	Solid	1311	
500-189109-36	B-13 (0-2)	TCLP	Solid	1311	
500-189109-37	B-13 (2-4)	TCLP	Solid	1311	
500-189109-41	B-19 (0-2)	TCLP	Solid	1311	
LB 500-567308/1-B	Method Blank	TCLP	Solid	1311	
500-189109-41 MS	B-19 (0-2)	TCLP	Solid	1311	
500-189109-41 DU	B-19 (0-2)	TCLP	Solid	1311	

Leach Batch: 567312

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-42	B-19 (2-4)	TCLP	Solid	1311	
500-189109-43	B-20 (0-2)	TCLP	Solid	1311	
LB 500-567312/1-B	Method Blank	TCLP	Solid	1311	

Prep Batch: 567586

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	TCLP	Solid	3010A	567308
500-189109-3	B-2a (2-4)	TCLP	Solid	3010A	567308
500-189109-5	B-3a (0-2)	TCLP	Solid	3010A	567308
500-189109-6	B-3a (4-6)	TCLP	Solid	3010A	567308
500-189109-7	B-4a (0-2)	TCLP	Solid	3010A	567308
500-189109-11	B-9 (0-2)	TCLP	Solid	3010A	567308
500-189109-14	B-17 (0-2)	TCLP	Solid	3010A	567308
500-189109-15	B-17 (2-4)	TCLP	Solid	3010A	567308
500-189109-17	B-12 (0-2)	TCLP	Solid	3010A	567308
500-189109-18	B-12 (2-4)	TCLP	Solid	3010A	567308
500-189109-20	B-15 (0-2)	TCLP	Solid	3010A	567308
500-189109-23	B-10 (0-2)	TCLP	Solid	3010A	567308
500-189109-26	B-11 (0-2)	TCLP	Solid	3010A	567308
500-189109-29	B-14 (0-2)	TCLP	Solid	3010A	567308
500-189109-30	B-14 (2-4)	TCLP	Solid	3010A	567308
500-189109-33	B-16 (2-4)	TCLP	Solid	3010A	567308
500-189109-34	B-16 (4-5.5)	TCLP	Solid	3010A	567308
500-189109-36	B-13 (0-2)	TCLP	Solid	3010A	567308
500-189109-37	B-13 (2-4)	TCLP	Solid	3010A	567308

Metals (Continued)

Prep Batch: 567586 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-41	B-19 (0-2)	TCLP	Solid	3010A	567308
LB 500-567308/1-B	Method Blank	TCLP	Solid	3010A	567308
LCS 500-567586/2-A	Lab Control Sample	Total/NA	Solid	3010A	
500-189109-41 MS	B-19 (0-2)	TCLP	Solid	3010A	567308
500-189109-41 DU	B-19 (0-2)	TCLP	Solid	3010A	567308

Prep Batch: 567589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-42	B-19 (2-4)	TCLP	Solid	3010A	567312
500-189109-43	B-20 (0-2)	TCLP	Solid	3010A	567312
LB 500-567312/1-B	Method Blank	TCLP	Solid	3010A	567312
LCS 500-567589/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Analysis Batch: 567794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-1	B-1a (2-4)	TCLP	Solid	6010B	567586
500-189109-3	B-2a (2-4)	TCLP	Solid	6010B	567586
500-189109-5	B-3a (0-2)	TCLP	Solid	6010B	567586
500-189109-6	B-3a (4-6)	TCLP	Solid	6010B	567586
500-189109-7	B-4a (0-2)	TCLP	Solid	6010B	567586
500-189109-11	B-9 (0-2)	TCLP	Solid	6010B	567586
500-189109-14	B-17 (0-2)	TCLP	Solid	6010B	567586
500-189109-15	B-17 (2-4)	TCLP	Solid	6010B	567586
500-189109-17	B-12 (0-2)	TCLP	Solid	6010B	567586
500-189109-18	B-12 (2-4)	TCLP	Solid	6010B	567586
500-189109-20	B-15 (0-2)	TCLP	Solid	6010B	567586
500-189109-23	B-10 (0-2)	TCLP	Solid	6010B	567586
500-189109-26	B-11 (0-2)	TCLP	Solid	6010B	567586
500-189109-29	B-14 (0-2)	TCLP	Solid	6010B	567586
500-189109-30	B-14 (2-4)	TCLP	Solid	6010B	567586
500-189109-33	B-16 (2-4)	TCLP	Solid	6010B	567586
500-189109-34	B-16 (4-5.5)	TCLP	Solid	6010B	567586
500-189109-36	B-13 (0-2)	TCLP	Solid	6010B	567586
500-189109-37	B-13 (2-4)	TCLP	Solid	6010B	567586
500-189109-41	B-19 (0-2)	TCLP	Solid	6010B	567586
LB 500-567308/1-B	Method Blank	TCLP	Solid	6010B	567586
LCS 500-567586/2-A	Lab Control Sample	Total/NA	Solid	6010B	567586
500-189109-41 MS	B-19 (0-2)	TCLP	Solid	6010B	567586
500-189109-41 DU	B-19 (0-2)	TCLP	Solid	6010B	567586

Analysis Batch: 567802

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-189109-42	B-19 (2-4)	TCLP	Solid	6010B	567589
500-189109-43	B-20 (0-2)	TCLP	Solid	6010B	567589
LB 500-567312/1-B	Method Blank	TCLP	Solid	6010B	567589
LCS 500-567589/2-A	Lab Control Sample	Total/NA	Solid	6010B	567589

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-567586/2-A
Matrix: Solid
Analysis Batch: 567794

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567586

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0888		mg/L		89	80 - 120

Lab Sample ID: LCS 500-567589/2-A
Matrix: Solid
Analysis Batch: 567802

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 567589

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.100	0.0898		mg/L		90	80 - 120

Lab Sample ID: LB 500-567308/1-B
Matrix: Solid
Analysis Batch: 567794

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 567586

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/20/20 16:57	10/21/20 11:22	1

Lab Sample ID: 500-189109-41 MS
Matrix: Solid
Analysis Batch: 567794

Client Sample ID: B-19 (0-2)
Prep Type: TCLP
Prep Batch: 567586

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.074		0.100	0.177		mg/L		102	75 - 125

Lab Sample ID: 500-189109-41 DU
Matrix: Solid
Analysis Batch: 567794

Client Sample ID: B-19 (0-2)
Prep Type: TCLP
Prep Batch: 567586

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Lead	0.074		0.0743		mg/L		0.1	20

Lab Sample ID: LB 500-567312/1-B
Matrix: Solid
Analysis Batch: 567802

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 567589

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.0075		0.050	0.0075	mg/L		10/20/20 16:58	10/21/20 10:23	1

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-1a (2-4)
Date Collected: 10/08/20 10:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:28	JEF	TAL CHI

Client Sample ID: B-2a (2-4)
Date Collected: 10/08/20 10:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:31	JEF	TAL CHI

Client Sample ID: B-3a (0-2)
Date Collected: 10/08/20 11:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:34	JEF	TAL CHI

Client Sample ID: B-3a (4-6)
Date Collected: 10/08/20 11:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:37	JEF	TAL CHI

Client Sample ID: B-4a (0-2)
Date Collected: 10/08/20 11:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:40	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-9 (0-2)
Date Collected: 10/08/20 11:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:43	JEF	TAL CHI

Client Sample ID: B-17 (0-2)
Date Collected: 10/08/20 12:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:46	JEF	TAL CHI

Client Sample ID: B-17 (2-4)
Date Collected: 10/08/20 12:05
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:49	JEF	TAL CHI

Client Sample ID: B-12 (0-2)
Date Collected: 10/08/20 12:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 11:58	JEF	TAL CHI

Client Sample ID: B-12 (2-4)
Date Collected: 10/08/20 12:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:01	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-15 (0-2)
Date Collected: 10/08/20 12:30
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:04	JEF	TAL CHI

Client Sample ID: B-10 (0-2)
Date Collected: 10/08/20 12:45
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:07	JEF	TAL CHI

Client Sample ID: B-11 (0-2)
Date Collected: 10/08/20 13:00
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:10	JEF	TAL CHI

Client Sample ID: B-14 (0-2)
Date Collected: 10/08/20 13:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-29
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:13	JEF	TAL CHI

Client Sample ID: B-14 (2-4)
Date Collected: 10/08/20 13:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-30
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:16	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-16 (2-4)
Date Collected: 10/08/20 13:35
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-33
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:19	JEF	TAL CHI

Client Sample ID: B-16 (4-5.5)
Date Collected: 10/08/20 13:40
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:22	JEF	TAL CHI

Client Sample ID: B-13 (0-2)
Date Collected: 10/08/20 13:50
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:25	JEF	TAL CHI

Client Sample ID: B-13 (2-4)
Date Collected: 10/08/20 13:55
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:35	JEF	TAL CHI

Client Sample ID: B-19 (0-2)
Date Collected: 10/08/20 14:15
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-41
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567308	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567586	10/20/20 16:57	BDE	TAL CHI
TCLP	Analysis	6010B		1	567794	10/21/20 12:38	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation
Project/Site: WisDOT I-43 341633.0000 TCLP

Job ID: 500-189109-2

Client Sample ID: B-19 (2-4)

Date Collected: 10/08/20 14:20
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-42
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567312	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567589	10/20/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	567802	10/21/20 10:30	JEF	TAL CHI

Client Sample ID: B-20 (0-2)

Date Collected: 10/08/20 14:25
Date Received: 10/09/20 09:40

Lab Sample ID: 500-189109-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			567312	10/19/20 14:15	CMS	TAL CHI
TCLP	Prep	3010A			567589	10/20/20 16:58	BDE	TAL CHI
TCLP	Analysis	6010B		1	567802	10/21/20 10:33	JEF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation
Job ID: 500-189109-2
Project/Site: WisDOT I-43 341633.0000 TCLP

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-21

Fredrick, Sandie

From: O'Connell, Theodore <TOConnell@trccompanies.com>
Sent: Friday, October 16, 2020 2:47 PM
To: Fredrick, Sandie
Subject: RE: [EXTERNAL] Eurofins TestAmerica report and EDD files from 500-189109-1 WisDOT I-43 341633.0000

Follow Up Flag: Follow up
Flag Status: Flagged

EXTERNAL EMAIL*

Sandie,

Please perform TCLP lead on the following samples:
B-10 (0-2)
B-11 (0-2)
B-12 (0-2)
B-12 (2-4)
B-13 (0-2)
B-13 (2-4)
B-14 (0-2)
B-14 (2-4)
B-15 (0-2)
B-16 (2-4)
B-16 (4-5.5)
B-17 (0-2)
B-17 (2-4)
B-19 (0-2)
B-19 (2-4)
B-1a (2-4)
B-20 (0-2)
B-2a (2-4)
B-3a (0-2)
B-3a (4-6)
B-4a (0-2)
B-9 (0-2)

Thanks

Ted O'Connell
Project Manager

708 Heartland Trail, Suite 3000, Madison, WI 53717
C 608.630.6710 | **F** 608.826.3941
LinkedIn | Twitter | Blog | TRCcompanies.com

From: Sandie Fredrick <sandra.fredrick@eurofinset.com>
Sent: Friday, October 16, 2020 10:40 AM
To: O'Connell, Theodore <TOConnell@trccompanies.com>
Subject: [EXTERNAL] Eurofins TestAmerica report and EDD files from 500-189109-1 WisDOT I-43 341633.0000

This is an **EXTERNAL** email. Do not click links or open attachments unless you validate the sender and know the content is safe.

Hello Ted,

Final reports attached. Happy weekend!
Sandie

Attached please find the report and EDD files for job 500-189109-1; WisDOT I-43 341633.0000

Please feel free to contact me if you have any questions.

Thank you.

Sandie Fredrick
Project Manager

Eurofins TestAmerica, Chicago
Phone: 920-261-1660

E-mail: sandra.fredrick@eurofinset.com
www.eurofinsus.com/env

Reference: [500-560826]
Attachments: 4

Please let us know if we met your expectations by rating the service you received from Eurofins TestAmerica on this project by visiting our website at: Project Feedback

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Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information
Client Contact: Ted O'Connell
Company: TRC Environmental Corporation
Address: 708 Heartland Trail Suite 3000
City: Madison
State, Zip: WI, 53717
Phone:
Email: TOConnell@trccompanies.com
Project Name: WisDOT I-43 - PN 341633 0000
Site: Milwaukee, WI

500-189109 COC

Sampler: Ben Wachholz
Phone:
Lab PM: Fredrick, Sandie
E-Mail: sandra.fredrick@eurofinset.com
Carrier Tracking No(s):
COC No: 500-85920-38826.1
Page: Page 1 of 14
Job #: 500-189109

Due Date Requested:
TAT Requested (days): 5 day TAT
PO #: Purchase Order Requested
WO #:
Project #: 50017486
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O8, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
1	B-1a (2-4)	10/8/20	10:30	G	Solid	N	N		X	1	
2	B-1a (4-6)	10/8/20	10:35	G	Solid	N	N		X	1	
3	B-2a (2-4)	10/8/20	10:50	G	Solid	N	N		X	1	
4	B-2a (4-6)	10/8/20	10:55	G	Solid	N	N		X	1	
5	B-3a (0-2)	10/8/20	11:15	G	Solid	N	N		X	1	
6	B-3a (4-6)	10/8/20	11:20	G	Solid	N	N		X	1	
7	B-4a (0-2)	10/8/20	11:25	G	Solid	N	N		X	1	
8	B-4a (4-6)	10/8/20	11:30	G	Solid	N	N		X	1	
9	B-5a (2-4)	10/8/20	11:40	G	Solid	N	N		X	1	
10	B-5a (4-6)	10/8/20	11:45	G	Solid	N	N		X	1	
11	B-9 (0-2)	10/8/20	11:00	G	Solid	N	N		X	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment: Fedex

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Ben Wachholz	10/8/2020 16:50	TRC		10/9/20 0940	TA-CHI
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company
Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 1.9

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone. 708-534-5200 Fax. 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38826.2
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 2 of 4
Company: TRC Environmental Corporation				Job #: 500-189109
Address: 708 Heartland Trail Suite 3000	Due Date Requested:	Analysis Requested		Preservation Codes:
City: Madison	TAT Requested (days): 5 day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53717	PO #: Purchase Order Requested			
Phone:	WO #:			Other:
Email: TOConnell@trccompanies.com				
Project Name: WisDOT I-43 - PN 341633.0000	Project #: 50017486			
Site: Milwaukee, WI	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
12	B-9 (2-4)	10/8/20	11:05	G	Solid	N	N		X	1	
13	B-9 (4-6)	10/8/20	11:10	G	Solid					1	
14	B-17 (0-2)	10/8/20	12:00	G	Solid					1	
15	B-17 (2-4)	10/8/20	12:05	G	Solid					1	
16	B-17 (4-6)	10/8/20	12:10	G	Solid					1	
17	B-12 (0-2)	10/8/20	12:15	G	Solid					1	
18	B-12 (2-4)	10/8/20	12:20	G	Solid					1	
19	B-12 (4-6)	10/8/20	12:25	G	Solid					1	
20	B-15 (0-2)	10/8/20	12:30	G	Solid					1	
21	B-15 (2-4)	10/8/20	12:35	G	Solid					1	
22	B-15 (4-6)	10/8/20	12:40	G	Solid	↓	↓		↓	1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ben Wachholz	10/8/2020 16:50	TRC			
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ⊥ Yes △ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38826.3
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 3 of 14
Company: TRC Environmental Corporation		Analysis Requested		Job #: 500-189109
Address: 708 Heartland Trail Suite 3000	Due Date Requested:			Preservation Codes:
City: Madison	TAT Requested (days): 5 day TAT			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: WI, 53717	PO #: Purchase Order Requested			
Phone:	WO #:			Other:
Email: TOConnell@trccompanies.com				
Project Name: WisDOT I-43 - PN 341633 0000	Project #: 50017486			
Site: Milwaukee, WI	SSOW#:			

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead											Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N												
23	B-10 (0-2)	10/8/20	12:45	G	Solid	N	N		X											1	
24	B-10 (2-4)	10/8/20	12:50	G	Solid															1	
25	B-10 (4-6)	10/8/20	12:55	G	Solid															1	
26	B-11 (0-2)	10/8/20	13:00	G	Solid															1	
27	B-11 (2-4)	10/8/20	13:05	G	Solid															1	
28	B-11 (4-6)	10/8/20	13:10	G	Solid															1	
29	B-14 (0-2)	10/8/20	13:15	G	Solid															1	
30	B-14 (2-4)	10/8/20	13:20	G	Solid															1	
31	B-14 (4-6)	10/8/20	13:25	G	Solid															1	
32	B-16 (0-2)	10/8/20	13:30	G	Solid															1	
33	B-16 (2-4)	10/8/20	13:35	G	Solid															1	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Ben Wachholz	10/8/2020 16:50	TRC	Afton Scott	10/9/20 0940	TAECHI
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
	Relinquished by	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks

Ver: 01/16/2019

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park IL 60484
Phone: 708-534-5200 Fax: 708-534-5211

Chain of Custody Record

eurofins

Client Information	Sampler: Ben Wachholz	Lab PM: Fredrick, Sandie	Carrier Tracking No(s):	COC No: 500-85920-38626.4
Client Contact: Ted O'Connell	Phone:	E-Mail: sandra.fredrick@eurofinset.com		Page: Page 4 of 4
Company: TRC Environmental Corporation				Job #: 500-189109

Address	Due Date Requested:
708 Heartland Trail Suite 3000	
City: Madison	TAT Requested (days): 5 day TAT
State, Zip: WI, 53717	
Phone:	PO #: Purchase Order Requested
Email: TOConnell@trccompanies.com	WO #:
Project Name: WisDOT I-43 - PN 341633.0000	Project #: 50017486
Site: Milwaukee, WI	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

	Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C, 7471B, 8270D	6010C - Lead	Total Number of containers	Special Instructions/Note:
				Preservation Code:				N	N		
34	~~B-16 (4-6)~~ EDD B-16 (4-5.5)	10/8/20	13:40	G	Solid	N	N		X		
35	B-16 (5.5-6)	10/8/20	13:45	G	Solid				X		
36	B-13 (0-2)	10/8/20	13:50	G	Solid				X		
37	B-13 (2-4)	10/8/20	13:55	G	Solid				X		
38	B-13 (4-6)	10/8/20	14:00	G	Solid				X		
39	B-18 (0-2)	10/8/20	14:05	G	Solid			X			
40	B-18 (2-4)	10/8/20	14:10	G	Solid			X			
41	B-19 (0-2)	10/8/20	14:15	G	Solid			X			
42	B-19 (2-4)	10/8/20	14:20	G	Solid			X			
43	B-20 (0-2)	10/8/20	14:25	G	Solid			X			
44	B-20 (2-4)	10/8/20	14:30	G	Solid			X			

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment: Fedex

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	Ben Wachholz	10/8/2020 16:50	TRC	~~Fedex~~		
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
				Rhini Koots	10/9/20 0940	TA-CHI
3	Relinquished by:	Date/Time	Company	Received by	Date/Time	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks:

Ver: 01/16/2019

Login Sample Receipt Checklist

Client: TRC Environmental Corporation

Job Number: 500-189109-2

Login Number: 189109
List Number: 1
Creator: Scott, Sherri L

List Source: Eurofins TestAmerica, Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.9
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix F: Hazard Index and Cancer Risk Calculations

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.006	1.6E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.016		0.	6.6E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		1.3		0.0059	6.2E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.036		0.	
Acenaphthylene	208-96-8	-	-				0.0095			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.46		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.5			7.2E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		1.8			8.5E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.41			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.63			3.0E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		1.4			6.6E-10
Dibenzo(a,e)pyrene	192-65-4	-	0.176	0.176	ca		0.14			8.0E-07
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		2.4		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.05		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.43			2.0E-08
Methylnaphthalene, 1-	90-12-0	52,700.	72.7	72.7	ca		0.016		0.	2.2E-10
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.013		0.	
Phenanthrene	85-01-8	-	-				0.84			
Pyrene	129-00-0	22,600.	-	22,600.	nc		1.9		0.0001	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	33.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.0753	1.8E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.016		0.0001	2.9E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.3	E	0.073	1.1E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.036		0.	
Acenaphthylene	208-96-8	-	-				0.0095			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.46		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.5	E		1.3E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.8	E		1.6E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.41			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.63			5.5E-08
Chrysene	218-01-9	-	115.	115.	ca		1.4			1.2E-08
Dibenzo(a,e)pyrene	192-65-4	-	0.042	0.042	ca		0.14	E		3.3E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.4		0.001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.05		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.43			3.7E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.016		0.	9.1E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.013		0.0001	
Phenanthrene	85-01-8	-	-				0.84			
Pyrene	129-00-0	1,790.	-	1,790.	nc		1.9		0.0011	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	33.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.158	1.2E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.013		0.	5.4E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		1.7		0.0077	8.1E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.15		0.	
Acenaphthylene	208-96-8	-	-				0.031			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.48		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.9			9.1E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		2.1			1.0E-07
Benzo[g,h,i]perylene	191-24-2	-	-				1.			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.76			3.6E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		2.			9.5E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.24			1.1E-07
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		3.7		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.15		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.92			4.4E-08
Methylnaphthalene, 1-	90-12-0	52,700.	72.7	72.7	ca		0.017		0.	2.3E-10
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.014		0.	
Phenanthrene	85-01-8	-	-				1.9			
Pyrene	129-00-0	22,600.	-	22,600.	nc		3.2		0.0001	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	120.		0.15	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.3991	2.1E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013		0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.7	E	0.0955	1.5E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.15		0.	
Acenaphthylene	208-96-8	-	-				0.031			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.48		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.9	E		1.7E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		2.1	E		1.8E-06
Benzo[g,h,i]perylene	191-24-2	-	-				1.			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.76			6.6E-08
Chrysene	218-01-9	-	115.	115.	ca		2.			1.7E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.24	E		2.1E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		3.7		0.0015	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.15		0.0001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.92			8.0E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.017		0.	9.7E-10
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.014		0.0001	
Phenanthrene	85-01-8	-	-				1.9			
Pyrene	129-00-0	1,790.	-	1,790.	nc		3.2		0.0018	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	120.		0.3	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 16

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
5	0.5807	3.4E-05

Bottom-Line: **NO! This INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		49.	E	0.2207	2.3E-05
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		5.2		0.0001	
Acenaphthylene	208-96-8	-	-				0.53			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		22.		0.0001	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		60.	E		2.9E-06
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		59.	E		2.8E-06
Benzo[g,h,i]perylene	191-24-2	-	-				27.			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		22.			1.0E-07
Chrysene	218-01-9	-	2,110.	2,110.	ca		58.			2.7E-08
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		7.3	E		3.5E-06
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		140.		0.0047	
Fluorene	86-73-7	30,100.	-	30,100.	nc		6.9		0.0002	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		24.	E		1.1E-06
Phenanthrene	85-01-8	-	-				80.			
Pyrene	129-00-0	22,600.	-	22,600.	nc		110.		0.0049	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	280.		0.35	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 16

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
6	3.5784	6.2E-04

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		49.	E	2.7528	4.3E-04
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		5.2		0.0014	
Acenaphthylene	208-96-8	-	-				0.53			
Anthracene	120-12-7	17,900.	-	17,900.	nc		22.		0.0012	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		60.	E		5.3E-05
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		59.	E		5.1E-05
Benzo[g,h,i]perylene	191-24-2	-	-				27.			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		22.	E		1.9E-06
Chrysene	218-01-9	-	115.	115.	ca		58.			5.0E-07
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		7.3	E		6.3E-05
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		140.		0.0586	
Fluorene	86-73-7	2,390.	-	2,390.	nc		6.9		0.0029	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		24.	E		2.1E-05
Phenanthrene	85-01-8	-	-				80.			
Pyrene	129-00-0	1,790.	-	1,790.	nc		110.		0.0615	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	280.		0.7	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 14

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0014	1.8E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.3		0.0014	1.4E-07
Acenaphthylene	208-96-8	-	-				0.025			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.03		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.23			1.1E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		0.42			2.0E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.11			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.15			7.1E-10
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.25			1.2E-10
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		0.3		0.	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.0068		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.11			5.2E-09
Phenanthrene	85-01-8	-	-				0.079			
Pyrene	129-00-0	22,600.	-	22,600.	nc		0.39		0.	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	22.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 14

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.0172	3.3E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.3	E	0.0169	2.6E-06
Acenaphthylene	208-96-8	-	-				0.025			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.03		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.23			2.0E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.42			3.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.11			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.15			1.3E-08
Chrysene	218-01-9	-	115.	115.	ca		0.25			2.2E-09
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.3		0.0001	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.0068		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.11			9.6E-08
Phenanthrene	85-01-8	-	-				0.079			
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.39		0.0002	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	22.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 17

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0051	1.6E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.0065		0.	2.7E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		1.1		0.005	5.2E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.047		0.	
Acenaphthylene	208-96-8	-	-				0.035			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.16		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.1			5.3E-08
Benzo(j)fluoranthene	205-82-3	-	1.76	1.76	ca		1.7			9.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.41			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.56			2.7E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		1.3			6.2E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.12			5.7E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		2.		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.042		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.4			1.9E-08
Phenanthrene	85-01-8	-	-				0.71			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.		0.0001	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	27.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 17

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
3	0.0638	1.6E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0065		0.	1.2E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.1	E	0.0618	9.6E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.047		0.	
Acenaphthylene	208-96-8	-	-				0.035			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.16		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.1			9.6E-07
Benzo(j)fluoranthene	205-82-3	-	0.424	0.424	ca		1.7	E		4.0E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.41			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.56			4.9E-08
Chrysene	218-01-9	-	115.	115.	ca		1.3			1.1E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.12	E		1.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.		0.0008	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.042		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.4			3.5E-07
Phenanthrene	85-01-8	-	-				0.71			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.		0.0011	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	27.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.2487	1.6E-06

Bottom-Line: **NO! This INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.023		0.	9.5E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		2.4	E	0.0108	1.1E-06
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.098		0.	
Acenaphthylene	208-96-8	-	-				0.037			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.26		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.8			8.7E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		3.7			1.8E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.87			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		1.2			5.7E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		2.2			1.0E-09
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.24			1.1E-07
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		4.3		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.084		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.86			4.1E-08
Methylnaphthalene, 1-	90-12-0	52,700.	72.7	72.7	ca		0.022		0.	3.0E-10
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.02		0.	
Phenanthrene	85-01-8	-	-				1.4			
Pyrene	129-00-0	22,600.	-	22,600.	nc		5.2		0.0002	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	190.		0.2375	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.6148	2.9E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.023		0.0001	4.2E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		2.4	E	0.1348	2.1E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.098		0.	
Acenaphthylene	208-96-8	-	-				0.037			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.26		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.8	E		1.6E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		3.7	E		3.2E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.87			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		1.2			1.0E-07
Chrysene	218-01-9	-	115.	115.	ca		2.2			1.9E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.24	E		2.1E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		4.3		0.0018	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.084		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.86			7.5E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.022		0.	1.3E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.02		0.0001	
Phenanthrene	85-01-8	-	-				1.4			
Pyrene	129-00-0	1,790.	-	1,790.	nc		5.2		0.0029	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	190.		0.475	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0094	1.3E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.088		0.0001	3.7E-09
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		2.		0.009	9.5E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.08		0.	
Acenaphthylene	208-96-8	-	-				0.039			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.34		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		2.			9.6E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		2.9			1.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.6			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.93			4.4E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		1.9			9.0E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.2			9.5E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		3.4		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.082		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.63			3.0E-08
Methylnaphthalene, 1-	90-12-0	52,700.	72.7	72.7	ca		0.018		0.	2.5E-10
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.02		0.	
Phenanthrene	85-01-8	-	-				1.1			
Pyrene	129-00-0	22,600.	-	22,600.	nc		4.3		0.0002	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	32.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.1168	2.4E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.088		0.0005	1.6E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		2.	E	0.1124	1.7E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.08		0.	
Acenaphthylene	208-96-8	-	-				0.039			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.34		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		2.	E		1.8E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		2.9	E		2.5E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.6			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.93			8.1E-08
Chrysene	218-01-9	-	115.	115.	ca		1.9			1.7E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.2	E		1.7E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		3.4		0.0014	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.082		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.63			5.5E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.018		0.	1.0E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.02		0.0001	
Phenanthrene	85-01-8	-	-				1.1			
Pyrene	129-00-0	1,790.	-	1,790.	nc		4.3		0.0024	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	32.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.1272	6.5E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.019		0.	7.9E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.99		0.0045	4.7E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.057		0.	
Acenaphthylene	208-96-8	-	-				0.021			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.23		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.			4.8E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		1.5			7.1E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.35			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.44			2.1E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		1.			4.7E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.088			4.2E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		1.8		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.067		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.33			1.6E-08
Methylnaphthalene, 1-	90-12-0	52,700.	72.7	72.7	ca		0.022		0.	3.0E-10
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.021		0.	
Phenanthrene	85-01-8	-	-				0.97			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.3		0.0001	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	98.		0.1225	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 19

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2	0.3029	1.2E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/10/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.019		0.0001	3.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.99	E	0.0556	8.6E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.057		0.	
Acenaphthylene	208-96-8	-	-				0.021			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.23		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.			8.8E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.5	E		1.3E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.35			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.44			3.8E-08
Chrysene	218-01-9	-	115.	115.	ca		1.			8.7E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.088			7.7E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.8		0.0008	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.067		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.33			2.9E-07
Methylnaphthalene, 1-	90-12-0	4,180.	17.6	17.6	ca		0.022		0.	1.3E-09
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.021		0.0001	
Phenanthrene	85-01-8	-	-				0.97			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.3		0.0013	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	98.		0.245	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 27

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0037	1.2E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.62		0.0028	2.9E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.051		0.	
Acenaphthylene	208-96-8	-	-				0.021			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.12		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.63			3.0E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		1.1			5.2E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.21			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.31			1.5E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.88			4.2E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.039			1.8E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		1.7		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.025		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.23			1.1E-08
Phenanthrene	85-01-8	-	-				0.31			
Pyrene	129-00-0	22,600.	-	22,600.	nc		5.1		0.0002	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	1.6			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	18.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.28			
Chromium, Total	7440-47-3	-	-			44.	9.3			
Copper	7440-50-8	46,700.	-	46,700.	nc	35.	16.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.025		0.0004	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	38.			
Nickel Soluble Salts	7440-02-0	22,500.	73,600.	22,500.	nc	31.	5.5			
Selenium	7782-49-2	5,840.	-	5,840.	nc		0.78		0.0001	
Zinc and Compounds	7440-66-6	350,000.	-	100,000.	ceiling	150.	38.			
Aroclor 1242	53469-21-9	-	0.972	0.972	ca		0.76			7.8E-07
Silver	7440-22-4	5,840.	-	5,840.	nc		0.64		0.0001	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 27

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2	0.0436	1.1E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.62	E	0.0348	5.4E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.051		0.	
Acenaphthylene	208-96-8	-	-				0.021			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.12		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.63			5.5E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.1			9.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.21			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.31			2.7E-08
Chrysene	218-01-9	-	115.	115.	ca		0.88			7.7E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.039			3.4E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.7		0.0007	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.025		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.23			2.0E-07
Phenanthrene	85-01-8	-	-				0.31			
Pyrene	129-00-0	1,790.	-	1,790.	nc		5.1		0.0028	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	1.6			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	18.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.28			
Chromium, Total	7440-47-3	-	-			44.	9.3			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	16.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.025		0.0016	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	38.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	5.5			
Selenium	7782-49-2	391.	-	391.	nc		0.78		0.002	
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	38.			
Aroclor 1242	53469-21-9	-	0.235	0.235	ca		0.76	E		3.2E-06
Silver	7440-22-4	391.	-	391.	nc		0.64		0.0016	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 28

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.1281	1.2E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.025		0.	1.0E-09
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.57		0.0026	2.7E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.1		0.	
Acenaphthylene	208-96-8	-	-				0.019			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.15		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.6			2.9E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		0.81			3.8E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.23			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.44			2.1E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.77			3.6E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.1			4.7E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		1.7		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.11		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.3			1.4E-08
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.019		0.	
Phenanthrene	85-01-8	-	-				0.59			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.8		0.0001	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	2.5			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	23.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.33			
Chromium, Total	7440-47-3	-	-			44.	10.			
Copper	7440-50-8	46,700.	-	46,700.	nc	35.	23.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.014		0.0002	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	100.		0.125	
Nickel Soluble Salts	7440-02-0	22,500.	73,600.	22,500.	nc	31.	9.1			
Zinc and Compounds	7440-66-6	350,000.	-	100,000.	ceiling	150.	78.			
Aroclor 1242	53469-21-9	-	0.972	0.972	ca		0.73			7.5E-07
Silver	7440-22-4	5,840.	-	5,840.	nc		0.78		0.0001	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 28

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
2	0.2875	1.0E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.025		0.0001	4.5E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.57	E	0.032	5.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.1		0.	
Acenaphthylene	208-96-8	-	-				0.019			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.15		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.6			5.3E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.81			7.0E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.23			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.44			3.8E-08
Chrysene	218-01-9	-	115.	115.	ca		0.77			6.7E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.1			8.7E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.7		0.0007	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.11		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.3			2.6E-07
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.019		0.0001	
Phenanthrene	85-01-8	-	-				0.59			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.8		0.0016	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.5			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	23.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.33			
Chromium, Total	7440-47-3	-	-			44.	10.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	23.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.014		0.0009	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	100.		0.25	
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	9.1			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	78.			
Aroclor 1242	53469-21-9	-	0.235	0.235	ca		0.73	E		3.1E-06
Silver	7440-22-4	391.	-	391.	nc		0.78		0.002	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 28

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.005	4.7E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.0073		0.	3.0E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.44		0.002	2.1E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.023		0.	
Acenaphthylene	208-96-8	-	-				0.011			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.066		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.49			2.4E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		0.64			3.0E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.18			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.3			1.4E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.55			2.6E-10
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		1.		0.	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.028		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.19			9.0E-09
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.01		0.	
Phenanthrene	85-01-8	-	-				0.19			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.1		0.0001	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	2.2			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	29.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	1.4		0.0014	1.3E-10
Chromium, Total	7440-47-3	-	-			44.	8.2			
Copper	7440-50-8	46,700.	-	46,700.	nc	35.	4.6			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.023		0.0003	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	10.			
Nickel Soluble Salts	7440-02-0	22,500.	73,600.	22,500.	nc	31.	5.4			
Selenium	7782-49-2	5,840.	-	5,840.	nc		1.		0.0002	
Zinc and Compounds	7440-66-6	350,000.	-	100,000.	ceiling	150.	310.		0.0009	
Aroclor 1242	53469-21-9	-	0.972	0.972	ca		0.19			2.0E-07
Silver	7440-22-4	5,840.	-	5,840.	nc		0.16		0.	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 28

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.0637	5.8E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0073		0.	1.3E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.44	E	0.0247	3.8E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.023		0.	
Acenaphthylene	208-96-8	-	-				0.011			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.066		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.49			4.3E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.64			5.6E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.18			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.3			2.6E-08
Chrysene	218-01-9	-	115.	115.	ca		0.55			4.8E-09
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.		0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.028		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.19			1.7E-07
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.01		0.	
Phenanthrene	85-01-8	-	-				0.19			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.1		0.0012	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	29.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	1.4		0.0197	5.8E-10
Chromium, Total	7440-47-3	-	-			44.	8.2			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	4.6			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.023		0.0015	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	10.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	5.4			
Selenium	7782-49-2	391.	-	391.	nc		1.		0.0026	
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	310.		0.0132	
Aroclor 1242	53469-21-9	-	0.235	0.235	ca		0.19			8.1E-07
Silver	7440-22-4	391.	-	391.	nc		0.16		0.0004	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 23

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0054	1.2E-06

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.87		0.0039	4.1E-07
Acenaphthylene	208-96-8	-	-				0.025			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.074		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.67			3.2E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		1.6			7.6E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.47			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.53			2.5E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.99			4.7E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.12			5.7E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		1.		0.	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.029		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.49			2.3E-08
Phenanthrene	85-01-8	-	-				0.37			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.		0.0001	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	2.1			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	60.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.66			
Chromium, Total	7440-47-3	-	-			44.	18.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.059		0.0009	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	51.			
Selenium	7782-49-2	5,840.	-	5,840.	nc		1.3		0.0002	
Aroclor 1248	12672-29-6	-	0.975	0.975	ca		0.59			6.1E-07
Silver	7440-22-4	5,840.	-	5,840.	nc		1.3		0.0002	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 23

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.0608	1.4E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.87	E	0.0489	7.6E-06
Acenaphthylene	208-96-8	-	-				0.025			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.074		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.67			5.9E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		1.6	E		1.4E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.47			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.53			4.6E-08
Chrysene	218-01-9	-	115.	115.	ca		0.99			8.6E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.12	E		1.0E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		1.		0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.029		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.49			4.3E-07
Phenanthrene	85-01-8	-	-				0.37			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.		0.0011	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	60.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.66			
Chromium, Total	7440-47-3	-	-			44.	18.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.059		0.0038	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	51.			
Selenium	7782-49-2	391.	-	391.	nc		1.3		0.0033	
Aroclor 1248	12672-29-6	-	0.236	0.236	ca		0.59	E		2.5E-06
Silver	7440-22-4	391.	-	391.	nc		1.3		0.0033	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 24

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.1691	8.3E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.016		0.	6.6E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		1.2		0.0054	5.7E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.095		0.	
Acenaphthylene	208-96-8	-	-				0.039			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.35		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		1.4			6.7E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		2.			9.5E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.6			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.84			4.0E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		1.6			7.6E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.13			6.2E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		2.1		0.0001	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.11		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.63			3.0E-08
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.014		0.	
Phenanthrene	85-01-8	-	-				1.5			
Pyrene	129-00-0	22,600.	-	22,600.	nc		2.8		0.0001	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	4.1			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	53.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.55			
Chromium, Total	7440-47-3	-	-			44.	19.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.037		0.0006	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	130.		0.1625	
Silver	7440-22-4	5,840.	-	5,840.	nc		2.4		0.0004	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 24

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
4	0.4036	1.5E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.016		0.0001	2.9E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		1.2	E	0.0674	1.0E-05
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.095		0.	
Acenaphthylene	208-96-8	-	-				0.039			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.35		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		1.4	E		1.2E-06
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		2.	E		1.7E-06
Benzo[g,h,i]perylene	191-24-2	-	-				0.6			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.84			7.3E-08
Chrysene	218-01-9	-	115.	115.	ca		1.6			1.4E-08
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.13	E		1.1E-06
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		2.1		0.0009	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.11		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.63			5.5E-07
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.014		0.0001	
Phenanthrene	85-01-8	-	-				1.5			
Pyrene	129-00-0	1,790.	-	1,790.	nc		2.8		0.0016	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	4.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	53.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.55			
Chromium, Total	7440-47-3	-	-			44.	19.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.037		0.0024	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	130.		0.325	
Silver	7440-22-4	391.	-	391.	nc		2.4		0.0061	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 18

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.1768	1.0E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.19		0.0009	9.0E-08
Acenaphthylene	208-96-8	-	-				0.023			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.028		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.16			7.7E-09
Benzo[g,h,i]perylene	191-24-2	-	-				0.15			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.073			3.5E-10
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.23			1.1E-10
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		0.31		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.14			6.6E-09
Phenanthrene	85-01-8	-	-				0.1			
Pyrene	129-00-0	22,600.	-	22,600.	nc		0.39		0.	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	3.1			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	40.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.59			
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.054		0.0008	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	140.		0.175	
Selenium	7782-49-2	5,840.	-	5,840.	nc		0.76		0.0001	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 18

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.3664	1.9E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 9/19/2019.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.19	E	0.0107	1.7E-06
Acenaphthylene	208-96-8	-	-				0.023			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.028		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.16			1.4E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.15			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.073			6.3E-09
Chrysene	218-01-9	-	115.	115.	ca		0.23			2.0E-09
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.31		0.0001	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.14			1.2E-07
Phenanthrene	85-01-8	-	-				0.1			
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.39		0.0002	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	40.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.59			
Chromium, Total	7440-47-3	-	-			44.	14.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.054		0.0034	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	140.		0.35	
Selenium	7782-49-2	391.	-	391.	nc		0.76		0.0019	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 27

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.1667	4.1E-07

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 1/7/2020.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Ethylbenzene	100-41-4	27,400.	35.4	35.4	ca		0.019		0.	5.4E-10
Toluene	108-88-3	55,300.	-	818.	Csat		0.084		0.	
Naphthalene	91-20-3	830.	24.1	24.1	ca		0.013		0.	5.4E-10
Benzo[a]pyrene	50-32-8	222.	2.11	2.11	ca		0.58		0.0026	2.7E-07
Acenaphthene	83-32-9	45,200.	-	45,200.	nc		0.029		0.	
Acenaphthylene	208-96-8	-	-				0.035			
Anthracene	120-12-7	226,000.	-	100,000.	ceiling		0.088		0.	
Benz[a]anthracene	56-55-3	-	20.8	20.8	ca		0.48			2.3E-08
Benzo[b]fluoranthene	205-99-2	-	21.1	21.1	ca		0.89			4.2E-08
Benzo[g,h,i]perylene	191-24-2	-	-				0.38			
Benzo[k]fluoranthene	207-08-9	-	211.	211.	ca		0.24			1.1E-09
Chrysene	218-01-9	-	2,110.	2,110.	ca		0.68			3.2E-10
Dibenz[a,h]anthracene	53-70-3	-	2.11	2.11	ca		0.1			4.7E-08
Fluoranthene	206-44-0	30,100.	-	30,100.	nc		0.96		0.	
Fluorene	86-73-7	30,100.	-	30,100.	nc		0.028		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	21.1	21.1	ca		0.36			1.7E-08
Methylnaphthalene, 2-	91-57-6	3,010.	-	3,010.	nc		0.0078		0.	
Phenanthrene	85-01-8	-	-				0.45			
Pyrene	129-00-0	22,600.	-	22,600.	nc		0.86		0.	
Arsenic, Inorganic	7440-38-2	480.	3.	3.	ca	8.	3.5			
Barium	7440-39-3	219,000.	-	100,000.	ceiling	364.	54.			
Cadmium (Diet)	7440-43-9	985.	10,600.	985.	nc	1.	0.46			
Chromium, Total	7440-47-3	-	-			44.	17.			
Mercury (elemental)	7439-97-6	65.8	-	3.13	Csat		0.074		0.0011	
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	130.		0.1625	
Selenium	7782-49-2	5,840.	-	5,840.	nc		0.83		0.0001	
Silver	7440-22-4	5,840.	-	5,840.	nc		1.4		0.0002	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 27

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.369	7.5E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 1/7/2020.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		0.019		0.	2.4E-09
Toluene	108-88-3	5,240.	-	818.	Csat		0.084		0.	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.013		0.0001	2.4E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.58	E	0.0326	5.0E-06
Acenaphthene	83-32-9	3,590.	-	3,590.	nc		0.029		0.	
Acenaphthylene	208-96-8	-	-				0.035			
Anthracene	120-12-7	17,900.	-	17,900.	nc		0.088		0.	
Benz[a]anthracene	56-55-3	-	1.14	1.14	ca		0.48			4.2E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.89			7.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.38			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.24			2.1E-08
Chrysene	218-01-9	-	115.	115.	ca		0.68			5.9E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.1			8.7E-07
Fluoranthene	206-44-0	2,390.	-	2,390.	nc		0.96		0.0004	
Fluorene	86-73-7	2,390.	-	2,390.	nc		0.028		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.36			3.1E-07
Methylnaphthalene, 2-	91-57-6	239.	-	239.	nc		0.0078		0.	
Phenanthrene	85-01-8	-	-				0.45			
Pyrene	129-00-0	1,790.	-	1,790.	nc		0.86		0.0005	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.5			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	54.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.46			
Chromium, Total	7440-47-3	-	-			44.	17.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.074		0.0047	
Lead and Compounds	7439-92-1	400.	-	400.	nc	52.	130.		0.325	
Selenium	7782-49-2	391.	-	391.	nc		0.83		0.0021	
Silver	7440-22-4	391.	-	391.	nc		1.4		0.0036	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

Note: This Summary is OLD. Update with 'Get Summary' in Row 924 of the applicable *_DC_RCLs tab.

BRRTS # :
Type BRRTS No. Here (If Known)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	21.25	0.0E+00

Bottom-Line: **NO! This INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 1/14/2021.
Date of Worksheet Used: 11/20/2018.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	800.	-	800.	nc	52.	17,000.	E	21.25	

Appendix G: Special Provisions

Management of Contaminated Soil and Contaminated Sediment, Item SPV.0195.01.

A General

A.1 Description

This work will conform with the requirements of Section 205 of the Standard Specifications; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Soil and sediment considered to be solid waste due to metal, polychlorinated biphenyl (PCB), and polycyclic aromatic hydrocarbon (PAH) contamination will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as contaminated soil will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. **Hazardous contaminated soil shall be placed in covered roll-off containers provided by others. Sampling and disposal of the hazardous contaminated soil will be coordinated by the environmental consultant. The contractor shall provide a location for the roll-off containers**. The nearest WDNR-approved disposal facilities are:

Waste Management Orchard Ridge Landfill
W124 N9355 Boundary Rd.
Menomonee Falls, WI 53051
(866) 909-4458

Advanced Disposal Emerald Park Landfill
W124 S10629 S. 124th St.
Muskego, WI 53150
414-529-1360

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

A.2 Notice to the Contractor–Solid Waste Location

The department and others completed hazardous materials assessments for locations within this project where excavation is required. Investigation for soil and sediment contamination was conducted at select locations. Results indicate that solid waste (metals-, PCB-, and PAH-contaminated soil and sediment) is present at the following locations as shown on the plans:

Contaminated Soil:

- Station 940+50 to 944+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. **There is an area within**

this location from 941+85 to 943+00 with TCLP (toxicity characteristic leaching procedure) - hazardous waste lead that likely will require hazardous waste disposal. The estimated volume of PAH and metal contaminated soil to be excavated at this location is 3,431 cubic yards (approximately 5,833 tons) of which approximately 143 tons will be considered TCLP–hazardous waste lead and 5,690 tons will be considered non-hazardous. Incidental to construction, within the limits stated above, an additional 1,489 tons of TCLP-hazardous waste lead soil will require excavation and disposal.

- Station 944+80 to 953+80, from construction limits left to construction limits right. Depths of contamination range from ground surface to 20 ft bgs. The estimated volume of PAH-contaminated soil to be excavated at this location is 685 cubic yards (approximately 1,165 tons).

- Station 953+80 to 955+00, from construction limits left to the reference line. Depths of contamination range from ground surface to 12 ft bgs. The estimated volume of metal-contaminated soil to be excavated at this location is 5,539 cubic yards (approximately 9,416 tons).

- Station 980+75 to 982+00, from construction limits left to construction limits right. Depths of contamination range from ground surface to 4 ft bgs. The estimated volume of PAH-, PCB-, and metal-contaminated soil to be excavated at this location is 334 cubic yards (approximately 568 tons).

Contaminated Sediment:

- Station 978+50 to 980+75, from construction limits left to construction limits right. Depths of contamination range from the sediment surface to bedrock (0-2' below the sediment surface). The estimated volume of PAH-, PCB-, and metal-contaminated sediment to be excavated at this location is 201 cubic yards (approximately 342 tons).

Directly load solid waste soil and sediment excavated by the project at the above locations into trucks that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or sediment or signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

Active groundwater monitoring wells were not observed within the construction limits. If active groundwater monitoring wells are encountered elsewhere during construction, notify the engineer and protect the wells to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

If dewatering is required at the above locations, conduct the dewatering in accordance with Section C below.

A.3 Notice to Contractor – Reuse of Solid Waste Soils

Approximately 8,030 cubic yards (13,651 tons) of low-level impacted soil excavated from STA 944+80 to 949+10 is characterized as Solid Waste Soil and shall be reused as fill at the following location:

- Station 940 + 00 to 954 +70, from construction limits left to construction limits right.

Cap of reuse soil deposited at this location will either be the constructed roadway, or if placed outside of the constructed roadway, cap will consist of 2 feet of clay. Cover the clay with topsoil and then seed.

The clay material can be acquired on site or be furnished by the contractor from a borrow site. The contractor shall submit laboratory test results of the clay lining material from onsite or borrow source(s) documenting that the clay meets or exceeds the clay material specifications prior to the start of lining construction and prior to bringing borrow to the site.

The laboratory tests shall be conducted on clay material from on site or borrow areas at the frequency listed below and be performed in accordance to ASTM standard methods as listed below. The test results shall be submitted to the engineer for review and approval prior to construction. The following tests are required:

- A minimum of 50 percent by weight which passes the 200 sieve.
- Liquid Limit (LL): 22 percent or greater.
- Plasticity Index (PI): 12 percent or greater.

Clay not meeting these three requirements shall be removed and disposed of by the contractor without additional payment. Soils that are reused as project fill should not contain crushed asphalt or other non-exempt solid wastes.

A.4 Clay Cap

The contractor shall place and compact approved clay material in four 6-inch lifts for a total compacted thickness of two feet.

Contractor shall notify the engineer at least three days prior to start of placing clay cap.

Lift thickness shall be 6 inches maximum after compaction.

Clay cap shall be a minimum of two feet thick measured perpendicular to the surface. Compact clay to a minimum of 98% Standard Proctor Maximum Density (ASTM D698) with a sheepsfoot roller or other suitable equipment.

Placement of each lift shall not proceed until all required clay testing and documentation

has been completed for the previous lift. The moisture content of the clay during placement shall be:

- No drier than 1 % below the optimum moisture content as determined by ASTM D698.
- No wetter than 3% above the optimum moisture content as determined by ASTM D698.

A.5 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name:	Andrew Malsom
Address:	141 NW Barstow Street, Waukesha, WI 53187-0798
Phone:	262-548-6705
Fax:	262-548-6891
e-mail:	andrew.malsom@dot.state.wi.us

A.6 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact:	Bryan Bergmann
Phone:	262-901-2126 (office), 262-227-9210 (cell)
Fax:	262-879-1220
E-mail:	bbergmann@trccompanies.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of solid waste to be excavated based on soil and sediment analytical results from previous investigations, visual observations, and field screening of soil and sediment that is excavated;
2. Identifying soil and sediment to be hauled to the landfill facility;
3. Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first.

The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted areas. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted areas. Perform excavation in the impacted areas on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

A.7 Health and Safety Requirements
Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter metal-, PCB-, and PAH-contaminated soil and sediment. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted area as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction
Subsection 205.3 of the Standard Specification is supplemented with the following:

Control operations in the impacted areas to minimize the quantity of soil and sediment excavated.

The environmental consultant will periodically monitor soil and sediment excavated from the areas identified in A.2 above. The environmental consultant will evaluate excavated soil and sediment based on field screening results, visual observations, and soil and sediment analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil and sediment samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

On the basis of the results of such field-screening and existing laboratory analytical results, the material will be designated for disposal as follows:

- Excavation Common consisting of clean soil and/or clean construction and demolition fill (such as clean soil, boulders, concrete, reinforced concrete, bituminous pavement, bricks, building stone, and unpainted or untreated wood), which under NR 500.08 are exempt materials, or

- Low-level contaminated material (PID readings less than 10 ppm and no observation of staining or petroleum odor, or based on existing analytical data) for reuse as fill within the construction limits as allowed by the project engineer, or

- Contaminated soil (based on the presence of industrial fill or existing analytical data) for off-site disposal at the WDNR-licensed disposal facility, or

- Contaminated sediment for off-site treatment and disposal at the WDNR-licensed landfill facility, or

- Potentially contaminated for temporary stockpiling and additional characterization prior to disposal.

Directly load and haul solid waste soil and sediment designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils and sediment designated for off-site disposal so as not to contain free liquids. Sediment dewatering will be conducted in accordance with best management practices and will comply with the requirements of all applicable state and federal permits. Filtered water from dewatered sediments can be discharged back into the body of water from which it was removed.

Some material may require additional characterization prior to disposal. Provide for the temporary stockpiling of up to 100 cubic yards of contaminated soil on-site that require additional characterization. Construct and maintain a temporary stockpile of the material in accordance with NR 718.05(3), including, but not limited to, placement of the contaminated soil/fill material on an impervious surface and covering the stockpile with impervious material to prevent infiltration of precipitation. The Department's environmental consultant will collect representative samples of the stockpiled material, laboratory-analyze the samples, and advise the contractor, within 15 business days of the construction of the stockpile, of disposal requirements. The stockpiled material shall be disposed either at the WDNR-licensed disposal facility by the contractor or, if characterized as hazardous waste, by the Department. As an alternative to temporarily stockpiling contaminated soil/fill material that requires additional characterization, the contractor has the option of suspending excavation in those areas where such soil is encountered until such time as characterization is completed.

When material is encountered outside the above-identified limits of known contamination that appears to have been impacted with petroleum or chemical products, or when other obvious potentially contaminated materials are encountered or material exhibits characteristics of industrial-type wastes, such as fly ash, foundry sand, and cinders, or when underground storage tanks are encountered, suspend excavation in that area and notify the engineer.

Verify that the vehicles used to transport material are licensed for such activity in accordance with applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger chunks of clean concrete (~2 cubic feet), asphalt and bricks shall be segregated from the fill, to the extent practical and managed as

common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations, and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor's disposal site(s).

If dewatering is required in an area of known contamination, water generated from dewatering activities may contain contaminants and require testing, special handling, temporary storage, and disposal. Disposal of contaminated water may require use of a licensed hazardous waste hauler to transport contaminated groundwater to a treatment and disposal facility. Contaminated water could possibly be discharged to the sanitary sewer with prior approval from the Milwaukee Metropolitan Sewerage District (MMSD) and the City of Glendale.

Notify the engineer of any dewatering activities. The contractor shall obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for laboratory testing, obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from this construction project.

D Measurement

The department will measure solid waste by the ton of waste accepted by the disposal facility and as documented by weight tickets.

E Payment

The department will pay for measured quantities at the contract unit price under the following item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.