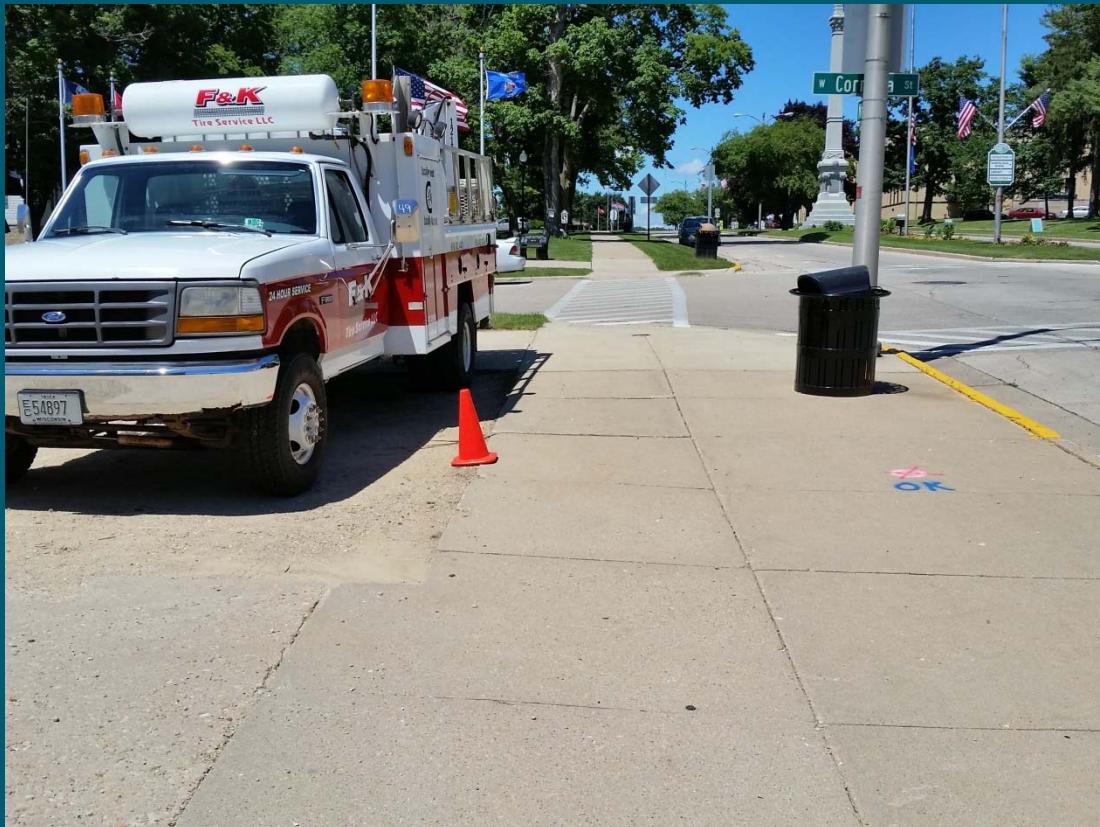


F&K Tire Service, LLC/Former Kurth Mobil STH 23 – County Shop Road to Minerva Street City of Darlington, Lafayette County, Wisconsin



Phase 2.5 Environmental Sampling Investigation
WisDOT Project ID No. 5245-02-02
WDNR BRRTS No. 03-33-001538

December 2016

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Phase 2.5 Environmental Sampling Investigation

**F&K Tire Service, LLC/Former Kurth Mobil
442 Main Street
City of Darlington, Lafayette County, Wisconsin
STH 23 – County Shop Road to Minerva Street**

WisDOT Project No. 5245-02-02
WNDR BRRTS No. 03-33-001538



Prepared by:
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December 22, 2016
Date



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Acronyms and Abbreviations

bgs	below ground surface
DATCP	Wisconsin Department of Agriculture, Trade, and Consumer Protection
EPA	U.S. Environmental Protection Agency
GPS	Global Positioning System
IDW	Investigation Derived Wastes
LUST	leaking underground storage tank
NR 720	Wisconsin Administrative Code, Chapter NR 720
Pace	Pace Analytical Services, Inc.
Phase 1	Phase 1 Hazardous Materials Assessment
Phase 2.5	Phase 2.5 Environmental Sampling Investigation
PID	Photoionization detector
RCL	NR 720 Residual Contaminant Level
ROW	right of way
STH	State Highway
TLE	Temporary Limited Easement
UST	underground storage tank
VES	Veolia Environmental Services
PVOC	petroleum volatile organic compounds
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation

1.0 Executive Summary

This report summarizes the results of a Phase 2.5 Environmental Sampling Investigation (Phase 2.5) conducted at the F&K Tire Service, LLC/Former Kurth Mobil site, located at 442 Main Street, City of Darlington, Lafayette County, Wisconsin. The site is a closed leaking underground storage tank (LUST) and is registered with Wisconsin Department of Agriculture, Trade, and Consumer Protection (DATCP) as having six underground storage tanks (USTs), which are identified as being removed between 1988 and 1992. The types of petroleum products contained in the removed USTs were leaded and unleaded gasoline, fuel oil, diesel and waste/used motor oil. The site is currently an auto repair shop. The purpose of the Phase 2.5 was to investigate for the presence and extent of petroleum hydrocarbon contamination within the proposed construction limits and temporary limited easement (TLE) areas adjacent to the site.

Two direct push soil borings (DP19-1 through DP19-2) were advanced within the existing State Highway (STH) 23 right-of-way (ROW) and TLE adjacent to the site on July 6, 2016. The borings were advanced to approximately 10 feet below ground surface (bgs). Two soil samples were collected from each boring for petroleum volatile organic compounds (PVOCs) and naphthalene analysis. Field and analytical results of the samples collected during the Phase 2.5 indicated the following:

- The metal detector survey did not identify any potential USTs or associated piping within TLE areas.
- Photoionization detector (PID) readings of soil cuttings generally did not indicate the potential presence of volatile organic compounds.
- PVOCs and naphthalene in soil were reported as below the limit of detection in all soil samples and are not anticipated to be present within construction limits at concentrations exceeding Wisconsin Administrative Code, Chapter NR 720 residual contamination levels (RCLs).
- Lead in soil was detected at concentrations exceeding the Wisconsin Administrative Code, Chapter NR 720 groundwater pathway RCL of 27 mg/kg in the area of boring DP19-1 (1 to 2 feet bgs), which is anticipated to be within construction limits.
- Groundwater was not encountered within 10 feet of the ground surface.

Based on the Phase 2.5 results, additional investigation, remedial action and contract special provisions are not warranted for the F&K Tire Service, LLC/Former Kurth Mobil site.

2.0 Investigation

2.1 Project Background

The Wisconsin Department of Transportation (WisDOT) is developing plans for improvements to STH 23 from County Shop Road to Minerva Street in the City of Darlington, Lafayette County.

Significant project dates include:

- Real Estate Acquisition: July 2017
- PS&E: May, 2019
- Construction: 2020 or 2021

The proposed improvements along the 1.5 mile-long, urban corridor consist of reconstructing STH 23 from County Shop Road to Minerva Street on current alignment with some intersection improvements to accommodate truck turning movements, and other improvements to meet current standards. Numerous areas of ROW acquisition in fee and temporary lease easements (TLE) for grading are anticipated for this project.

Under the proposed improvements, the current estimate for maximum depths of excavation is anticipated to be 3 feet below the proposed final roadway surface elevation for the pavement and 5 to 10 feet below the final roadway surface elevation for water and sewer lines.

JT Engineering, Inc., performed a Phase 1 Hazardous Materials Assessment (Phase 1) for the project and documented their findings in a Phase 1 report, dated March 2016. Based on the Phase 1 results, WisDOT requested a Phase 2.5 investigation at the F&K Tire Service, LLC/Former Kurth Mobil site. According to the Phase 1 report, the site is a closed LUST and is registered with DATCP as having six underground storage tanks (USTs), which are identified as being removed between 1988 and 1992. The types of petroleum products contained in the removed USTs were leaded and unleaded gasoline, fuel oil, diesel and waste/used motor oil. The site is currently an auto repair shop and the LUST case was closed in 2008.

Based on previous site investigations and the elevation of the site relative to the Pecatonica River, depth to groundwater was estimated to be greater than 30 feet below ground surface (bgs).

2.2 Purpose and Scope

The purpose of the Phase 2.5 was to investigate for the presence and extent of petroleum hydrocarbon contamination within the proposed and TLE area at the site.

The Phase 2.5 scope of work included:

- A metal detector survey for potential abandoned USTs and associated piping between the edge of STH 23 pavement to the TLE limit on the west side of STH 23.
- Advancement of two direct-push soil borings within the project limits adjacent to the site to a maximum depth of 10 feet bgs.
- Visual classification of the soil samples obtained from the borings and field screening of samples for volatile organic vapors using a PID.
- Collection of two soil samples per boring from the direct contact zone (uppermost 4 feet), interval having the highest PID reading, visible staining, or at the bottom of the boring. Submittal of the soil samples to a laboratory for PVOCS and naphthalene analysis.

- Collection of one representative soil sample from soil cuttings for waste characterization. Submittal of the representative soil sample to the laboratory for Protocol T1 analysis.
- Borehole closure in accordance with the requirements of Wisconsin Administrative Code (WAC), Chapter NR 141.
- Taking photographs of the soil boring locations and measurement of the locations from site features for use in preparing a site map.
- Collection of global positioning system (GPS) coordinates from the approximate center of the investigation area.
- Investigation derived waste (IDW) (soil cuttings) generated at the site were containerized and placed in a temporary storage area.
- Contacted Veolia Environmental Services (VES) to coordinate IDW pickup and disposal.
- Preparation of this report summarizing results of the Phase 2.5.

2.3 Site Information

General site information includes:

Location:	Northwest 1/4 of the Northeast 1/4, Section 3, Township 2 North, Range 3 East (see figure 1)
Address:	442 Main Street, City of Darlington, Wisconsin
County:	Lafayette
Stationing:	approximately STA 63SB+25 to 64SB+00, Left
GPS Coordinates:	Latitude: 42.680882 Longitude: -90.118029
WTM Coordinates:	X 510,330, Y 245,385

2.4 Description of Field Investigation

On July 6, 2016, two direct-push soil borings (DP19-1 through DP19-2) were advanced along the west side of the proposed TLE area adjacent to the F&K Tire Service, LLC/Former Kurth Mobil site. Soil boring depths were set based on anticipated excavated depths during construction. The borings were advanced using a truck-mounted hydraulic direct-push drilling rig operated by Soils & Engineering Services, Inc. Madison, Wisconsin. The locations of the borings are shown in Figure 2. Photographs are presented in Appendix A. Bentley gINT® boring logs (Wisconsin Department of Natural Resources (WDNR) Form 4400-122) are provided in Appendix B.

Soil samples were collected continuously from the direct-push sampler and field screened using a PID. The PID is capable of detecting and measuring relative concentrations of volatile organic vapors in the soil gas. PID readings were recorded on the soil boring logs. Soil gas monitoring procedures are described in Appendix C.

Two soil samples were collected from each boring for laboratory analysis by Pace Analytical Services, Inc. (Pace). The samples submitted for laboratory analysis were collected from the direct contact zone (uppermost 4 feet), highest PID reading, visible staining or bottom of boring and were analyzed for PVOCS and naphthalene. Soil sampling procedures are discussed in Appendix D.

After sampling, the borings were abandoned with bentonite in general accordance with the requirements of WAC Chapter NR 141. Abandonment forms (WDNR Form 3300-005) are presented in Appendix E.

Soil cuttings generated during borehole advancement were containerized in a 5-gallon plastic bucket with lid, identified with appropriate WisDOT label, and temporarily stored within the City of Darlington Municipal Building, located at 101-149 Spring Street. A non-hazardous IDW pickup request was emailed to VES with supporting documentation on July 25, 2016. Waste disposal request documentation is presented in Appendix F.

2.5 Subsurface Conditions

Subsurface materials encountered generally included sand and silty clay with trace gravel to the borings termination depths. The ground surface at the boring locations was gravel or grass covered.

Field screening results did indicate the potential presence of volatile organic vapors in soil boring DP19-1.

Based on United States Geological Survey geological mapping, it appears that native soils in the area of the site consists of stratified lake deposits of clay, silt and sand, underlain by undifferentiated dolomite and limestone of the Galena, Decorah and Platteville formations.

Groundwater was not encountered during borehole advancement. Regional groundwater flow direction in the project area is generally expected to the south and southwest. Local groundwater flow is generally in the direction of the Pecatonica River. The regional topography of the project area was generally hilly terrain, sloping downward toward the southwest.

The metal detector survey did not indicate the presence of UST's or associated piping.

2.6 Analytical Parameters and Results

Analytical parameters were selected in general accordance with WisDOT and WDNR guidance for investigations of LUST sites. Soil samples submitted to Pace were analyzed for PVOCs and naphthalene. Analytical results for soil samples were compared against the WAC, Chapter NR 720 non-industrial direct contact and groundwater pathway RCLs, updated June 2016. Standard analytical procedures are discussed in Appendix G. Analytical results are summarized in Table 1. The laboratory report and sample chain of custody form is included in Appendix H.

PVOCs and naphthalene were reported as below the limit of detection for all soil samples collected from the F&K Tire Service, LLC/Former Kurth Mobil site.

Lead was reported at concentrations ranging from 19.0 mg/kg in soil from boring DP19-2 (2 to 4 feet bgs) to 38.2 mg/kg in soil from DP19-1 (1 to 2 feet bgs) which slightly exceeds the NR 720 soil to groundwater pathway RCL of 27 mg/kg.

2.7 Conclusions and Recommendation

Field and analytical results of the soil samples collected during the Phase 2.5 indicated the following:

- The metal detector survey did not identify any potential USTs or associated piping within TLE areas.
- PID readings of soil cuttings generally did not indicate the potential presence of volatile organic compounds.
- PVOCs and naphthalene were reported as below the limit of detection in all soil samples and are not anticipated to be present within construction limits at concentrations exceeding Wisconsin Administrative Code, Chapter NR 720 RCLs.

- Lead in soil was detected at a concentration slightly exceeding the Wisconsin Administrative Code, Chapter NR 720 soil to groundwater pathway RCL of 27 mg/kg in the area of boring DP19-1 (1 to 2 feet bgs), which is anticipated to be within construction limits. In the absence of PVOC contamination, the presence of lead in soil may represent background.
- Groundwater was not encountered within 10 feet of the ground surface.

Based on the Phase 2.5 results, additional investigation, remedial action and contract special provisions are not warranted for the F&K Tire Service, LLC/Former Kurth Mobil site.

3.0 Limitations

AECOM's scope of services was limited to conducting a Phase 2.5 within proposed TLE adjacent to the F&K Tire Service, LLC/Former Kurth Mobil site.

AECOM's opinion regarding existing conditions at the site does not constitute a guarantee or warranty as to the potential environmental liability associated with the site. Furthermore, the findings and conclusions given are not scientific certainties, but rather probabilities based on data obtained or activities performed during this assessment and professional judgment concerning the significance of this data. Information was collected in accordance with generally accepted professional standards and practices, accepted in good faith, and are assumed to be factual and accurate.

AECOM is not able to determine whether the site or adjoining land areas contain hazardous waste, oil, or other latent conditions beyond those detected or observed by AECOM at the time the investigation was conducted. The possibility exists for contaminants to migrate through the surface water, air, or groundwater. Detailed analysis and discussion of the environmental risk associated with contaminant transport in these media was beyond the scope of this assessment.

The findings, conclusions, and opinion contained in this report are intended for exclusive use by WisDOT and are applicable only to this Phase 2.5. AECOM has no obligations to other persons or organizations that may use or rely upon this information.

4.0 References

JT Engineering, Inc., Phase 1 Hazardous Materials Assessment Report, STH 23, County Shop Road to Minerva Street, City of Darlington, Lafayette County, Wisconsin, March 29, 2016.

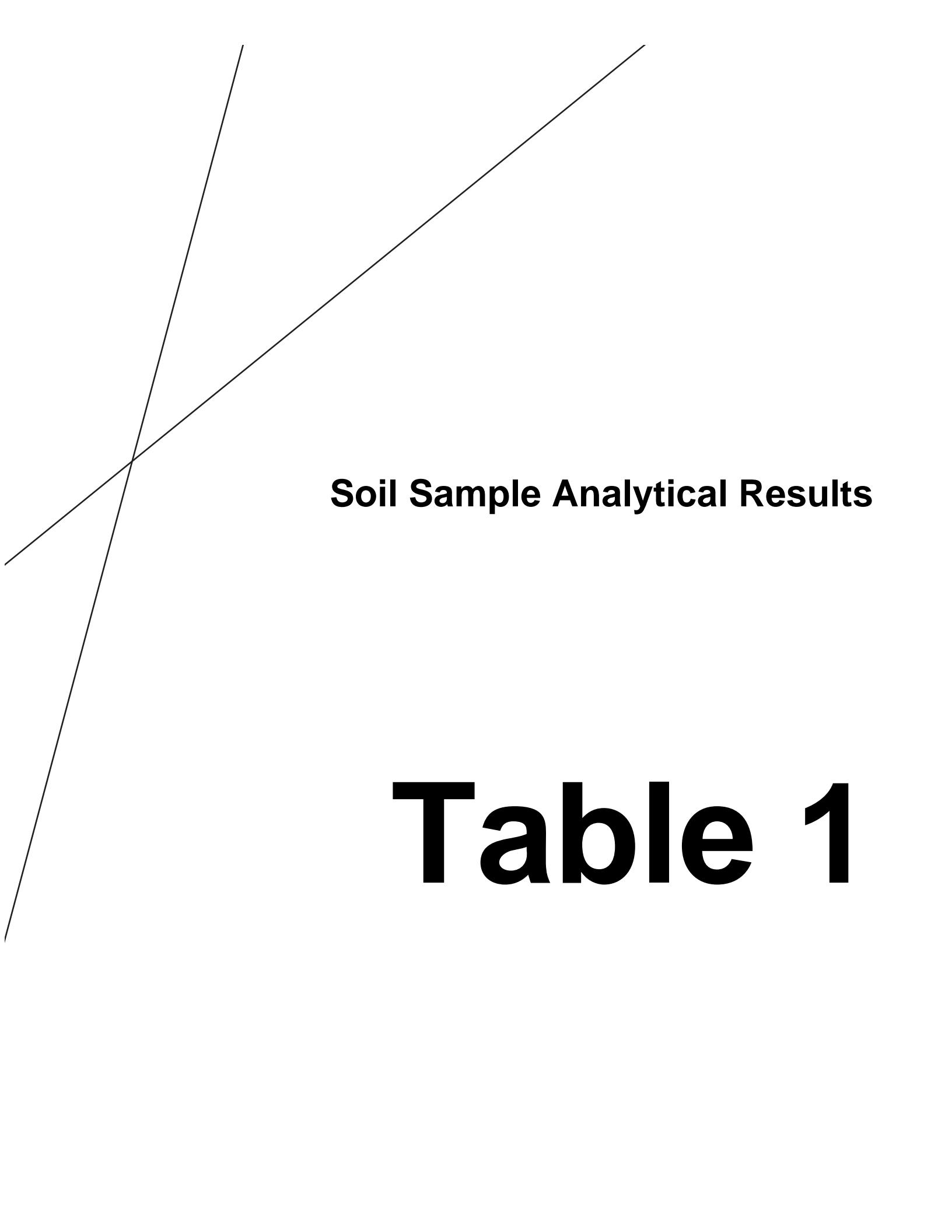
U.S. Geological Survey. 1972. Darlington, Wis., 7.5'-Minute Quadrangle

S.M. Hindall and E.L. Skinner, Water Resources of Wisconsin – Pecatonica-Sugar River Basin Hydrologic Investigations, Atlas HA-453, 1973.

Wisconsin Administrative Code, Chapter NR 720, Soil Cleanup Standards, Register, November 2013, No. 695.

Wisconsin Administrative Code, Chapter NR 140, Groundwater Quality, Register, July 2015, No. 715

Wisconsin Department of Natural Resources Remediation and Redevelopment Program, RCL spreadsheet, Updated June 2016.



Soil Sample Analytical Results

Table 1

Table 1

**Phase 2.5 Soil Sample Analytical Results
F and K Tire Service / Former Kurth Mobil
442 Main Street, Darlington, Lafayette County, Wisconsin**

**AECOM Project No. 60492955
WisDOT Project No. 5245-02-02**

Soil Boring/Sample ID: Sample Depth (feet): PID Readings (i.u.): Sample Date:			DP19-1	DP19-1	DP19-2	DP19-2	WC
			1-2'	6-8'	2-4'	8-10'	-
Analyte	Non-Industrial D-C RCL	RCL-gw	Results				
PVOCs+Nap (µg/kg)							
Benzene	1,490	5.1	<25.0	<25.0	<25.0	<25.0	<25.0
Ethylbenzene	7,470	1,570	<25.0	<25.0	<25.0	<25.0	-
Methyl-tert-butyl ether	59,400	27	<25.0	<25.0	<25.0	<25.0	-
Naphthalene	5,150	658.2	<25.0	<25.0	<25.0	<25.0	-
Toluene	818,000	1,107.2	<25.0	<25.0	<25.0	<25.0	-
1,2,4-Trimethylbenzene	89,800	1,382.1 (combined)	<50.0	<50.0	<50.0	<50.0	-
1,3,5-Trimethylbenzene	182,000		<75.0	<75.0	<75.0	<75.0	-
m&p-Xylene	778,000	3,960 (combined)					
o-Xylene	434,000						
Metals (mg/kg)							
Lead (total)	400	27.0	38.2	-	19	-	27.7
Waste Characterization							
DRO (mg/kg)	NE	NE	-	-	-	-	1.7J
GRO (mg/kg)	NE	NE	-	-	-	-	<2.9
Flashpoint (°F)	NE	NE	-	-	-	-	>210
Paint Filter	NE	NE	-	-	-	-	PASS

Notes:

Only results for detected analytes are provided in this table, all other analytes were below the limit of detection.

Non-Industrial D-C RCL refers to the Not-To-Exceed, non-industrial Direct-Contact Residual Contaminant Levels taken from the WDNR's RCLs spreadsheet, updated

RCL-gw refers to the Soil-to-Groundwater Residual Contaminant Level, DF = 2, taken from the WDNR's RCLs spreadsheet, updated June 2016.

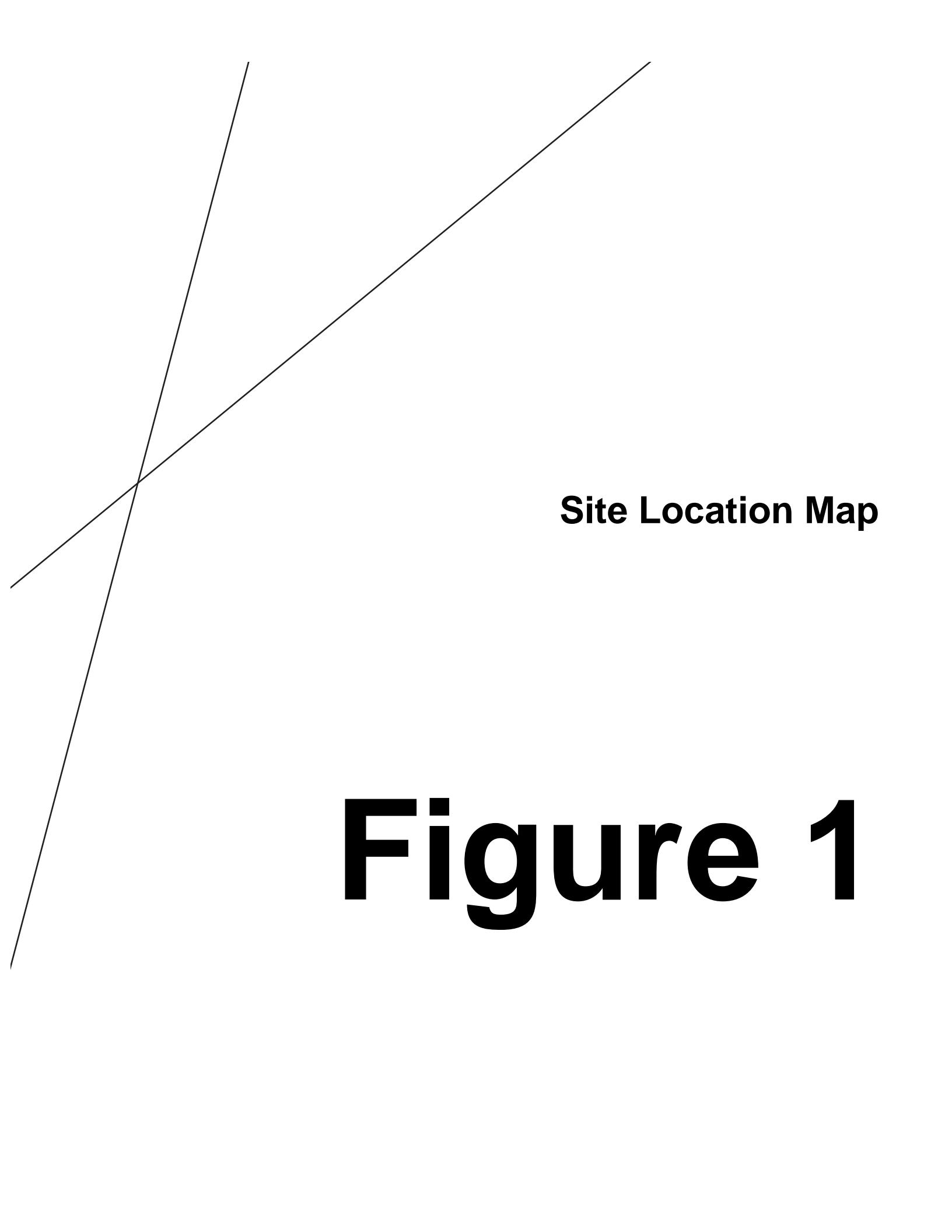
Bold result indicates RCL exceedence (RCL-gw).

Bold data and cell border indicates RCL exceedence (D-C RCL).

NE: Not Established

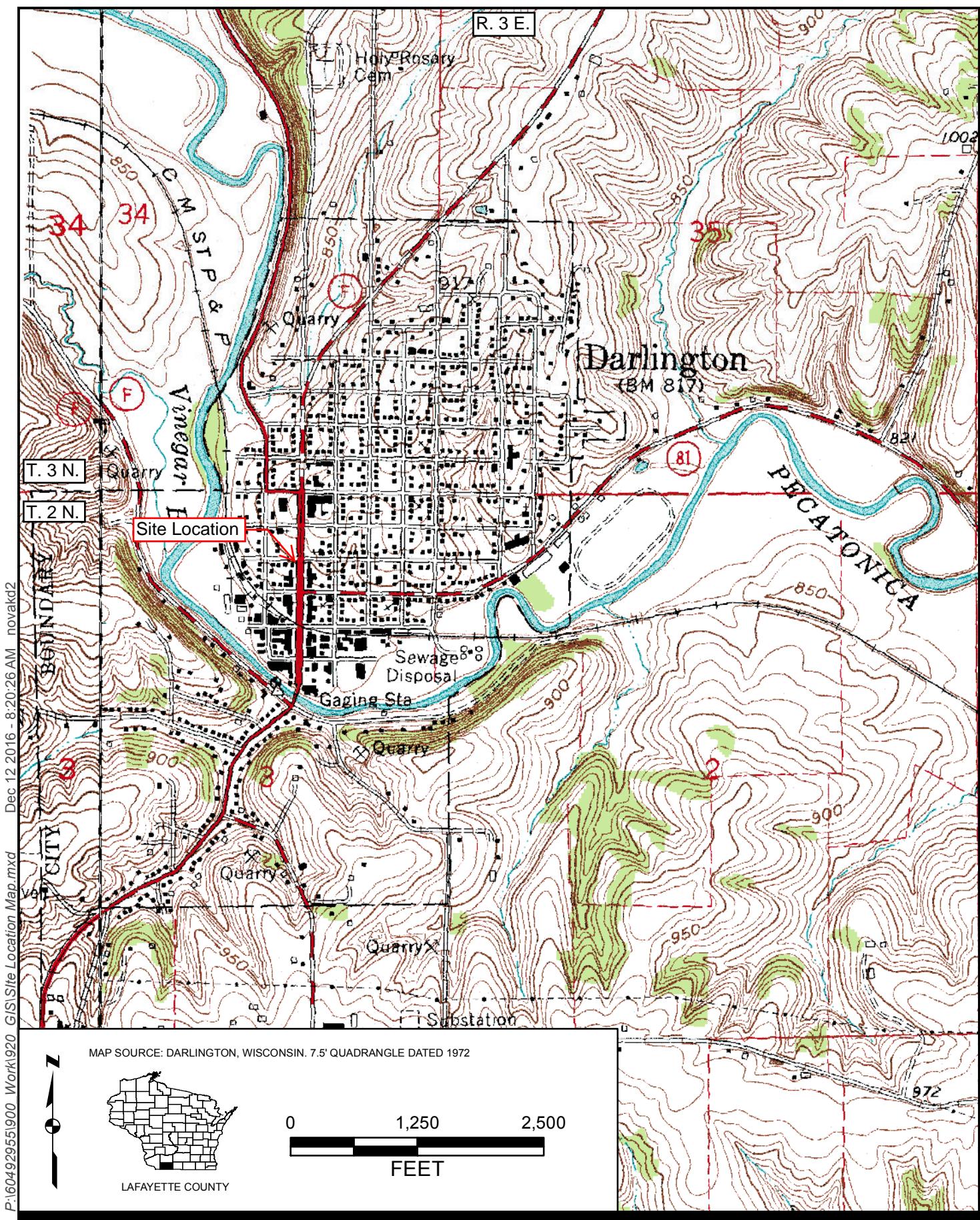
WC: Waste Characterization sample (Protocol T1)

J: Estimated Concentration at or above the LOD and below the LOQ



Site Location Map

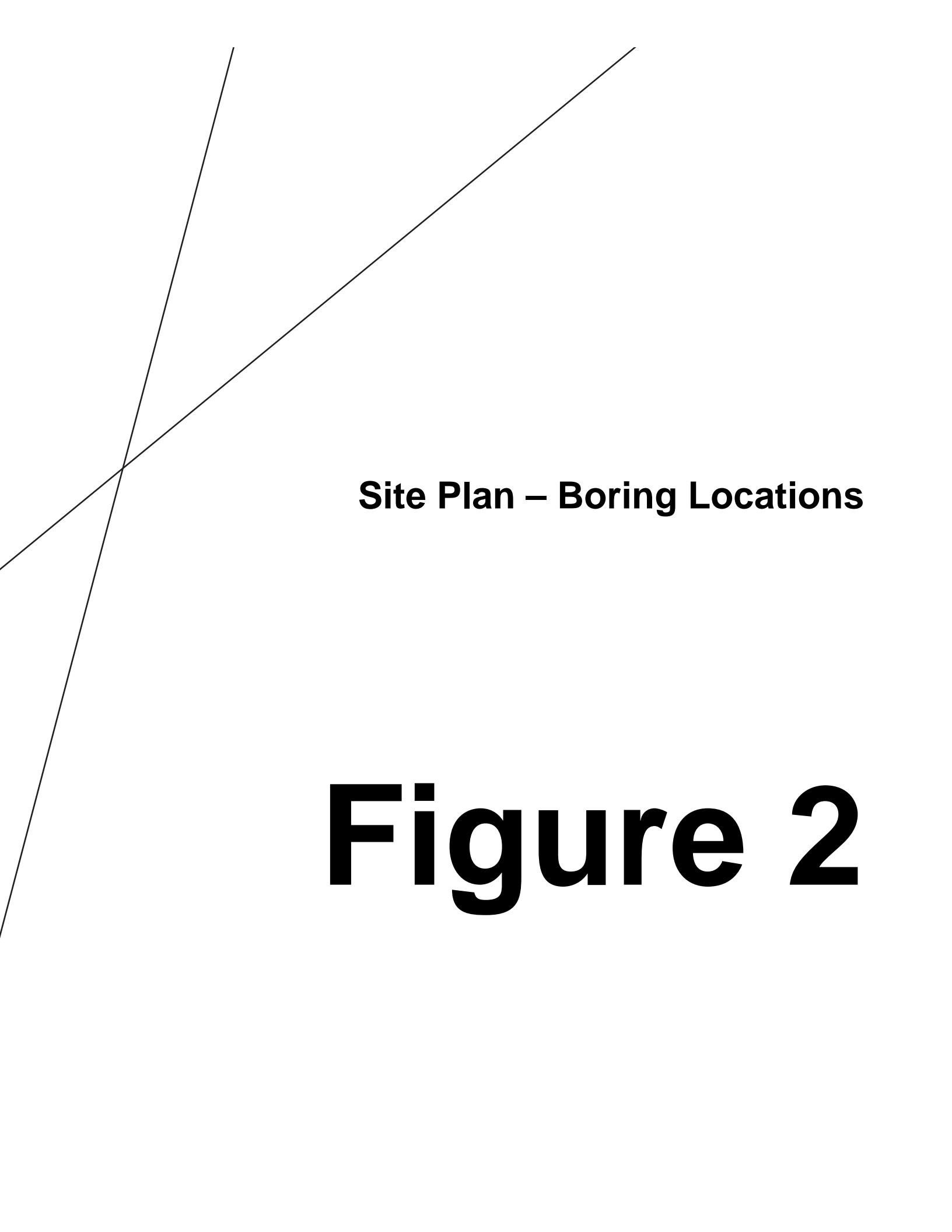
Figure 1



December 16, 2016
ACOM Project No.: 60492955
WisDOT Project No.: 5245-02-02

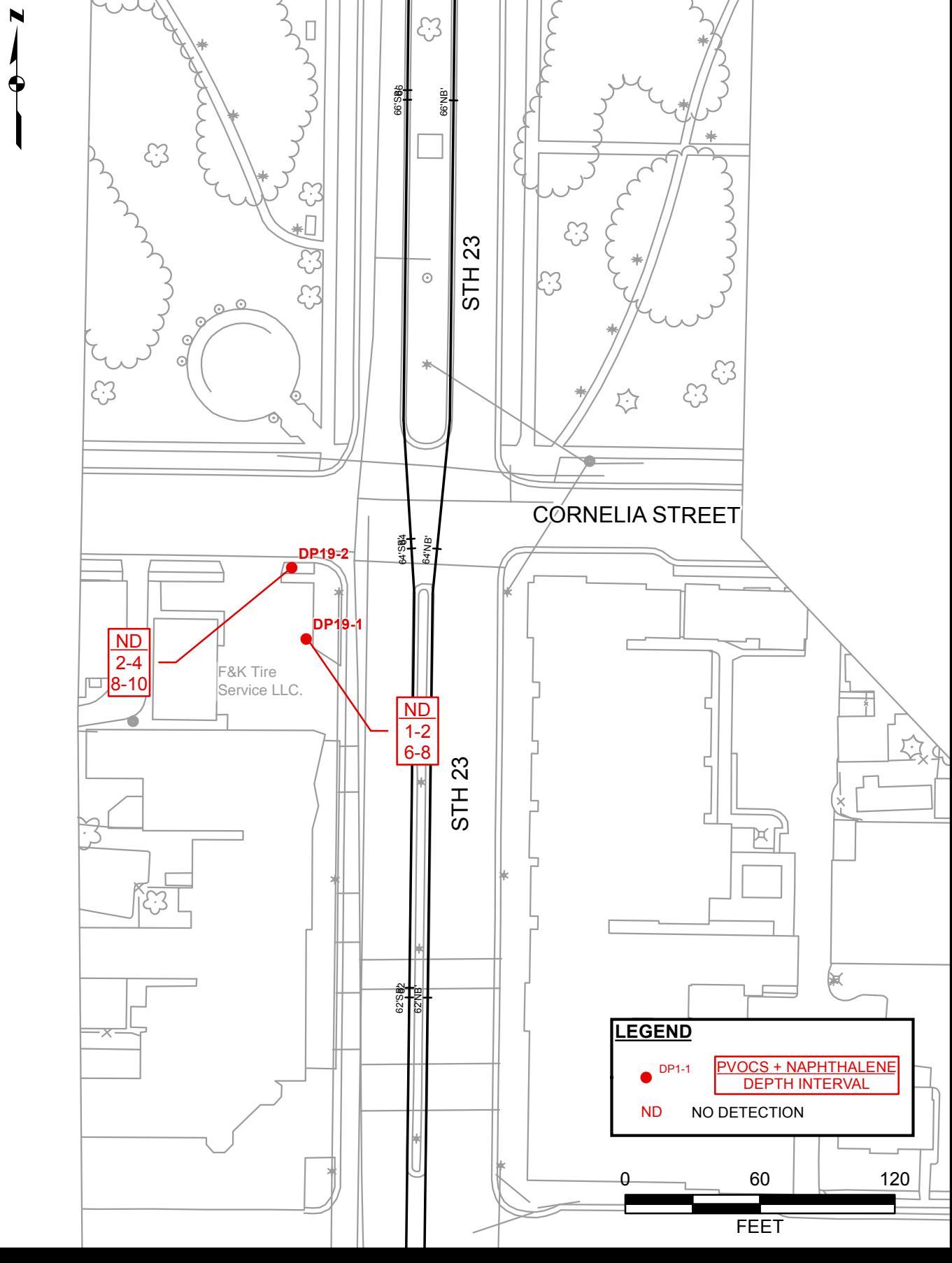
Site Location Map
F&K Tire Service, LLC./Former Kurth Mobil
442 Main Street, Darlington, WI
WDNR BRRTS No. 03-33-001538

AECOM
Figure 1



Site Plan – Boring Locations

Figure 2





Photograph Log

Appendix A

PHOTOGRAPHIC LOG

Client Name: Wisconsin Department of Transportation		Site Location: F&K Tire Service, LLC. 442 Main Street, City of Darlington, Lafayette County, WI.	Project No. 60492955
Photo No. 1	Date: 07/08/16	Direction Photo Taken: North	
Description: View of indicated borings located at 442 Main Street.			
Photo No. 2	Date: 07/08/16	Direction Photo Taken: East	
Description: View of indicated borings located at 442 Main Street.			



Soil Boring Logs

Appendix B

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

Page 1 of 1

Facility/Project Name Site 19 - F&K Tire, LLC / Former Kurth Mobil			License/Permit/Monitoring Number		Boring Number DP19-1							
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb SES			Date Drilling Started 7/6/2016	Date Drilling Completed 7/6/2016	Drilling Method split spoon							
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches							
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N NW 1/4 of NE 1/4 of Section 3, T 2 N.R 3 E			Lat ° ' " Lat <input type="checkbox"/> N Long ° ' " Long <input type="checkbox"/> S	Local Grid Location Feet <input type="checkbox"/> E Feet <input type="checkbox"/> W								
Facility ID		County Lafayette	County Code 33	Civil Town/City/ or Village Town of Darlington								
Sample	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit		Soil Properties				RQD/ Comments			
Number and Type	Length Att. & Recovered (in)		U S C S GM	Graphic Log	Well Diagram	PID 40.7	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
		1	Light brown / brown, very fine to gravelly, poorly sorted, sand with gravel									Sample taken from 1.0 to 2.0 feet
		2										
		3	Brown, firm, silty clay / clayey silt		CL							
		4	No Recovery									
		5										
		6	Brown, firm to medium firm, clayey silt / silty clay		CL							Sample taken from 6.0 to 8.0 feet
		7										
		8										
		9										
		10	End of Boring									

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

Signature 	Firm AECOM 200 Indiana Avenue, Stevens Point, WI 54481	*
--	--	---

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$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. NOTE: See instructions for more information, including where the completed form should be sent.

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

Page 1 of 1

Facility/Project Name Site 19 - F&K Tire, LLC / Former Kurth Mobil			License/Permit/Monitoring Number		Boring Number DP19-2								
Boring Drilled By: Name of crew chief (first, last) and Firm Scott Klumb SES			Date Drilling Started 7/6/2016	Date Drilling Completed 7/6/2016	Drilling Method split spoon								
WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2.0 inches								
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/> State Plane N, E S/C/N NW 1/4 of NE 1/4 of Section 3, T 2 N,R 3 E			Lat ° ' " Long ° ' "	Local Grid Location □ N Feet □ S Feet □ W									
Facility ID		County Lafayette	County Code 33	Civil Town/City/ or Village Town of Darlington									
Sample	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil Properties				RQD/ Comments					
Number and Type				U S C S	Graphic Log	Well Diagram	PID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
	24		6"	Topsoil / Organics									No odor
	24		1	Light brown / tan sand, very fine to gravelly, angular to sub-angular				SP		6.5			
	24		2										
	24		3	Brown, very soft to soft, silty clay with some gravel						4.5	0.75		
	24		4					CL		4.0			
	24		5										
	24		6										
	12		7										
	24		8	Light brown clay with inclusions of white silt / sand and trace gravel				SC-CL		4.1			
	24		9							3.5			
	24		10	End of Boring									

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

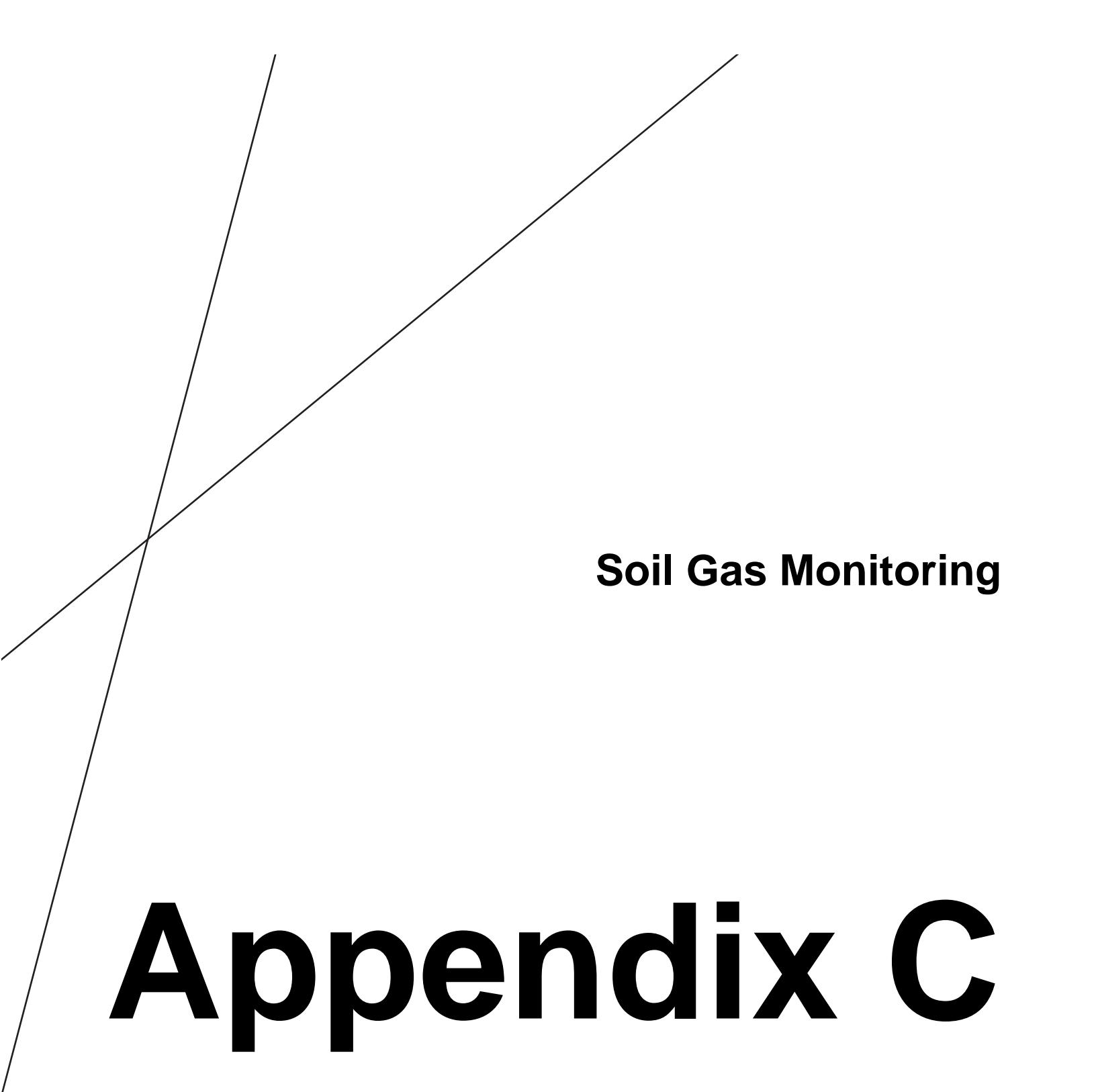
Signature

Firm AECOM

200 Indiana Avenue, Stevens Point, WI 54481

*

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$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. NOTE: See instructions for more information, including where the completed form should be sent.



Soil Gas Monitoring

Appendix C

Soil Gas Monitoring

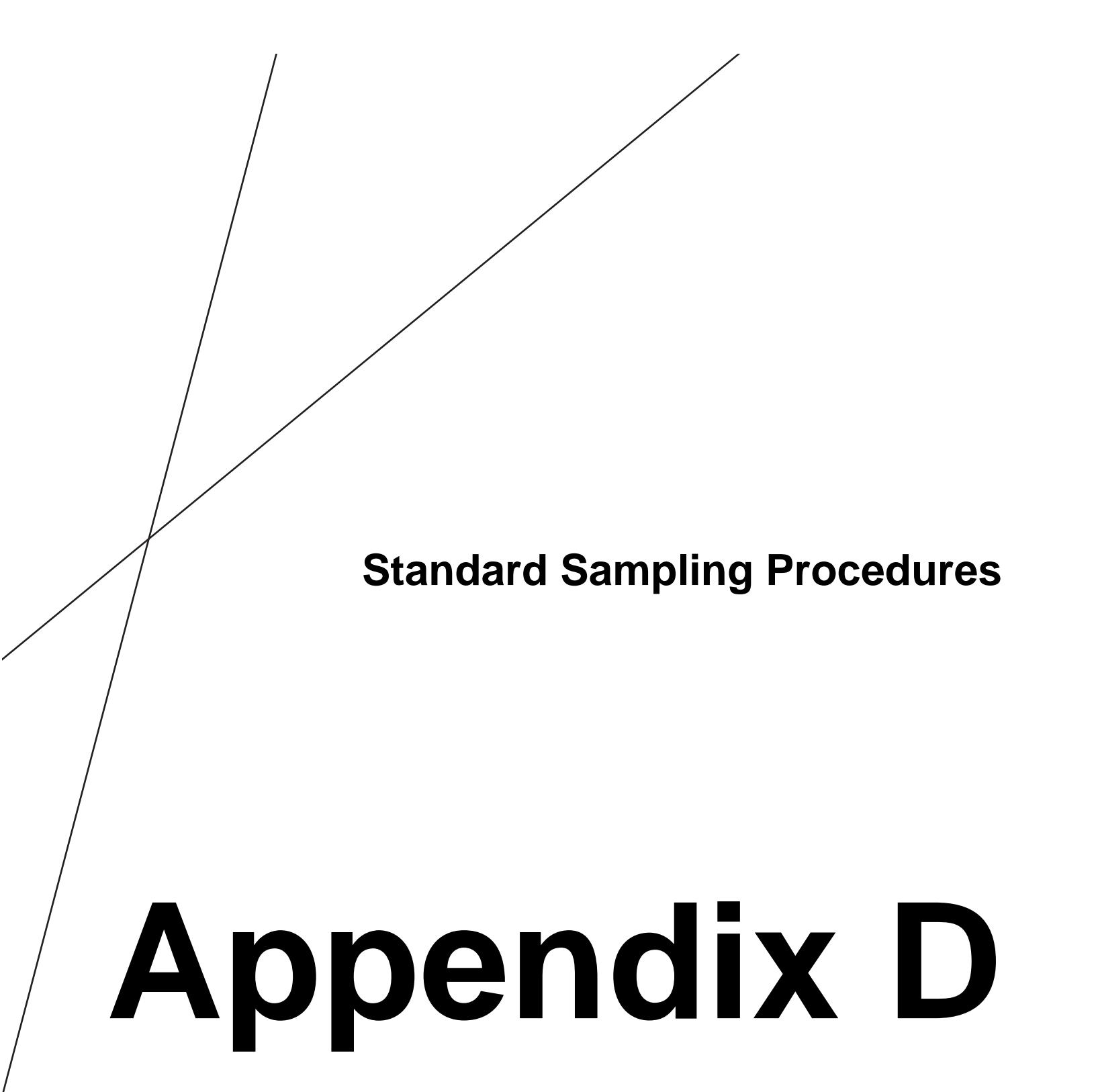
PID Model: Process Analyzers DL-102

Probe: 10.2 eV Lamp

Calibration Gas: 100 parts per million Isobutylene/Air

The PID was calibrated before and after sampling was conducted.

Soil gas readings for specified depth intervals were obtained using the headspace method. Soil samples were placed in plastic Ziploc bags and the air in each bag was allowed to equilibrate with the soil sample for up to 30 minutes. If the outside air temperature was below 70 degrees Fahrenheit, the soil samples were heated. The PID probe was then inserted into the bag headspace and the instrument reading was recorded.



Standard Sampling Procedures

Appendix D

Standard Sampling Procedures

Soil samples were collected continuously from the soil probe using 2-inch diameter samplers with disposable plastic liners. Samples collected for laboratory analysis were removed from the liners and placed directly into laboratory-supplied glass jars using new protective gloves. Protective gloves were disposed after collecting each sample. The liners were replaced between samples. Soil samples were preserved according to WDNR and U.S. Environmental Protection Agency (EPA) protocol.

Groundwater samples were collected from the soil probe borings/temporary monitoring wells using a stainless steel bailer. Samples were placed into laboratory-supplied containers and preserved in accordance with EPA and WDNR protocol. The stainless steel bailer was decontaminated prior to the collection of each sample with an alconox/water mix and distilled water.



Borehole Abandonment Forms

Appendix E

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 form to the appropriate DNR office and bureau. See Instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information

County Lafayette	WI Unique Well # of Removed Well _____	Hicap # _____
----------------------------	---	------------------

Latitude / Longitude (Degrees and Minutes)	Method Code (see instructions)
____ N ____ W	_____

1/4 NW 1/4 NE or Gov't Lot #	Section 3	Township 2	Range N 3 W
---------------------------------	--------------	---------------	----------------

Well Street Address 442 Main street	Well ZIP Code 53530
Well City, Village or Town City of Darlington	Subdivision Name _____
Lot # _____	City of Present Owner Madison
Reason For Removal From Service _____	WI Unique Well # of Replacement Well _____

3. Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole	Original Construction Date (mm/dd/yyyy) 7/6/14
If a Well Construction Report is available, please attach. _____	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Split-spoon	_____

Formation Type:

<input checked="" type="checkbox"/> Unconsolidated Formation _____	<input type="checkbox"/> Bedrock _____
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.) 1/2
Lower Drillhole Diameter (in.) 1/2	Casing Depth (ft.) N/A

Was well annular space grouted?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown
If yes, to what depth (feet)?	Depth to Water (feet) _____

5. Material Used To Fill Well / Drillhole

3/8" Bentonite chips	From (ft.) Surface	To (ft.) 10	No. Yards, Sacks Sealant or Volume (circle one): _____	Mix Ratio or Mud Weight _____
-----------------------------	-----------------------	-----------------------	---	----------------------------------

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Soils & Engineering Services, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 7/6/14	Date Received _____	Noted By _____	
Street or Route 1102 Stewart Street		Telephone Number (608) 274-7600	Comments _____		
City Madison	State WI	ZIP Code 53713-4648	Signature of Person Doing Work John Prentiss	Date Signed 10/4/2016	

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 form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal		Route to:		
		<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input type="checkbox"/> Remediation/Redevelopment
		<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	
1. Well Location Information		2. Facility / Owner Information		
County Lafayette	WI Unique Well # of Removed Well _____	Hicap # _____		Facility Name Site - 1a - F&K Tire, LLC / Fair Kurth Mobil
Latitude / Longitude (Degrees and Minutes) _____._____._____._____.N _____._____._____._____.W		Method Code (see instructions)		Facility ID (FID or PWS) DP19-2
_____._____._____._____.N _____._____._____._____.W		_____._____._____._____.E _____._____._____._____.W		License/Permit/Monitoring # _____
_____._____.NW or Gov't Lot # 1/4 NW 1/4 NE	Section 3	Township 2 N	Range 3 E	Original Well Owner WisDOT
Well Street Address 442 Main Street		Well ZIP Code 53530		Present Well Owner WisDOT
Well City, Village or Town City of Darlington		Lot # _____		Mailing Address of Present Owner 1802 Sheboygan Ave
Subdivision Name _____		City of Present Owner Madison		State WI ZIP Code 53707
Reason For Removal From Service		WI Unique Well # of Replacement Well _____		
3. Well / Drillhole / Borehole Information				
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 7/6/14			
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach. _____			
<input checked="" type="checkbox"/> Borehole / Drillhole				
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug				
<input checked="" type="checkbox"/> Other (specify): Split Spun				
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				
Total Well Depth From Ground Surface (ft.) 12'	Casing Diameter (in.) N/A			
Lower Drillhole Diameter (in.) N/A	Casing Depth (ft.) N/A			
Was well annular space grouted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Unknown				
If yes, to what depth (feet)? _____	Depth to Water (feet) _____			
5. Material Used To Fill Well / Drillhole 7/8" Bentonite chips				
From (ft.) Surface		To (ft.) 12'	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight _____
6. Comments _____				

7. Supervision of Work				DNR Use Only
Name of Person or Firm Doing Filling & Sealing Soils & Engineering Services, Inc.	License #	Date of Filling & Sealing (mm/dd/yyyy) 7/6/14	Date Received _____	Noted By _____
Street or Route 1102 Stewart Street	Telephone Number (608) 274-7600		Comments _____	
City Madison	State WI	ZIP Code 53713-4648	Signature of Person Doing Work John Prentiss	
			Date Signed 10/4/2016	



Waste Disposal Request Documentation

Appendix F

From: Wagoner, Kyle
To: Dan.szymaszek@veolia.com
Cc: Sharlene.TeBeest@dot.wi.gov; kyle.bartowitz@dot.wi.gov; Jeremy.Williams@cityofdarlingtonwi.org; Hopkins.Marcus@cityofdarlingtonwi.org
Subject: Request for Soil Cuttings Pickup & Disposal - STH 23, Darlington (WisDOT 5245-02-02)
Date: Monday, July 25, 2016 4:25:00 PM
Attachments: [dt1229 \(5245-02-02\).pdf](#)
[20160708_124956.jpg](#)
[Location Map for Darlington, WI.pdf](#)
[Pace Lab report \(Site #21\).pdf](#)
[Pace Lab report \(Site #1\).pdf](#)
[Pace Lab Report \(Site #5\).pdf](#)
[Pace Lab Report \(Site #9\).pdf](#)
[Pace Lab Report \(Site #19\).pdf](#)

Dan-

Please process this pickup & disposal request at your earliest convenience.

Kyle

Kyle Wagoner, P.G., CHMM

Project Manager
Environment
D 715.342.3038
Internal Cisco Extension 2103038
kyle.wagoner@aecom.com

-
AECOM

200 Indiana Avenue, Stevens Point, WI 54481
T 715.341.8110 F 715.341.7390

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NON-HAZARDOUS WASTE INVENTORY RECORD

Wisconsin Department of Transportation
DT1229 6/2016 (For use with DT1208)

DTSD Region and Office Southwest- LaCrosse			
WisDOT Project ID 5245-02-02	County Lafayette	Highway and Termini STH 23 - County Shop Rd to Minerva St.	
Site Name Site Nos. 1, 5, 9, 19, and 21		Phase of Investigation 2.5	
Consultant Company AECOM			
Consultant Contact Kyle Wagoner			
Contact (Area Code) Telephone Number (715) 342-3038			
Contact Email Address kyle.wagoner@aecom.com			
Consultant ID for this Site 60492955			
Generation Date (m/d/yyyy) 8/1/2016			
Comments, special instructions for pickup or site access 4 buckets of soil cuttings from Project 5245-02-02 have been temporarily stored with 1 bucket from Project 1693-05-02 next to the SW corner of the Municipal Building (see photo) at 627 Main Street, Darlington, WI. The contact in Darlington is Jeremy Williams, DPW, Phone (608) 776-4973, email jeremy.williams@cityofdarlingtonwi.org .			

Waste Description – describe containers of similar size and contents in one row. Insert additional rows as needed. <i>Number and Label Each Container.</i>				
Container ID Number	Container Size and Type	Estimated Volume of Waste	Source: Tank, Well, Boring	Contents: Soil, Water, Other (Describe)
Example: 1, 4, 5, 6, 7, 18, 22, 23	Example: 30 gallon metal drum	Example: 8 drums x 30 gal = 240 gallons	Example: monitoring wells # MW3, MW4, and MW7	Example: wash water, alconox
Bucket nos. 1, 2, 3 and 4	5 gallon plastic bucket	20 gallons	Soil borings	soil
Total Number of Containers to be picked up:				

Container Location: Attach map or site sketch to Email

Analytical Results: Attach analytical results to Email

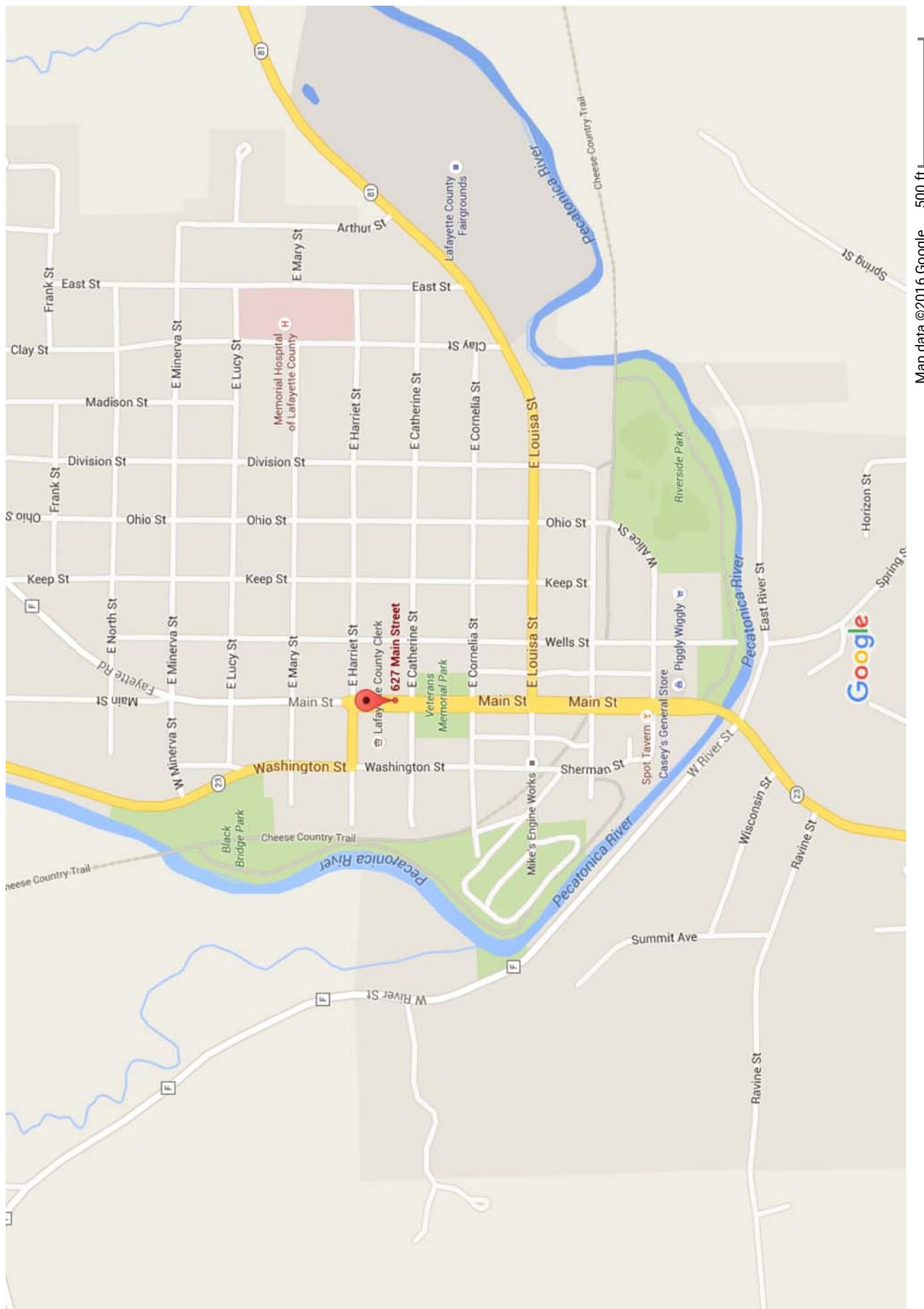
Email one copy of this form to each of the following:

- [DOT Hazardous Materials Specialist](#)
- [Regional Environmental or Hazardous Materials Coordinator](#)
- [Hazardous Waste Contractor](#)

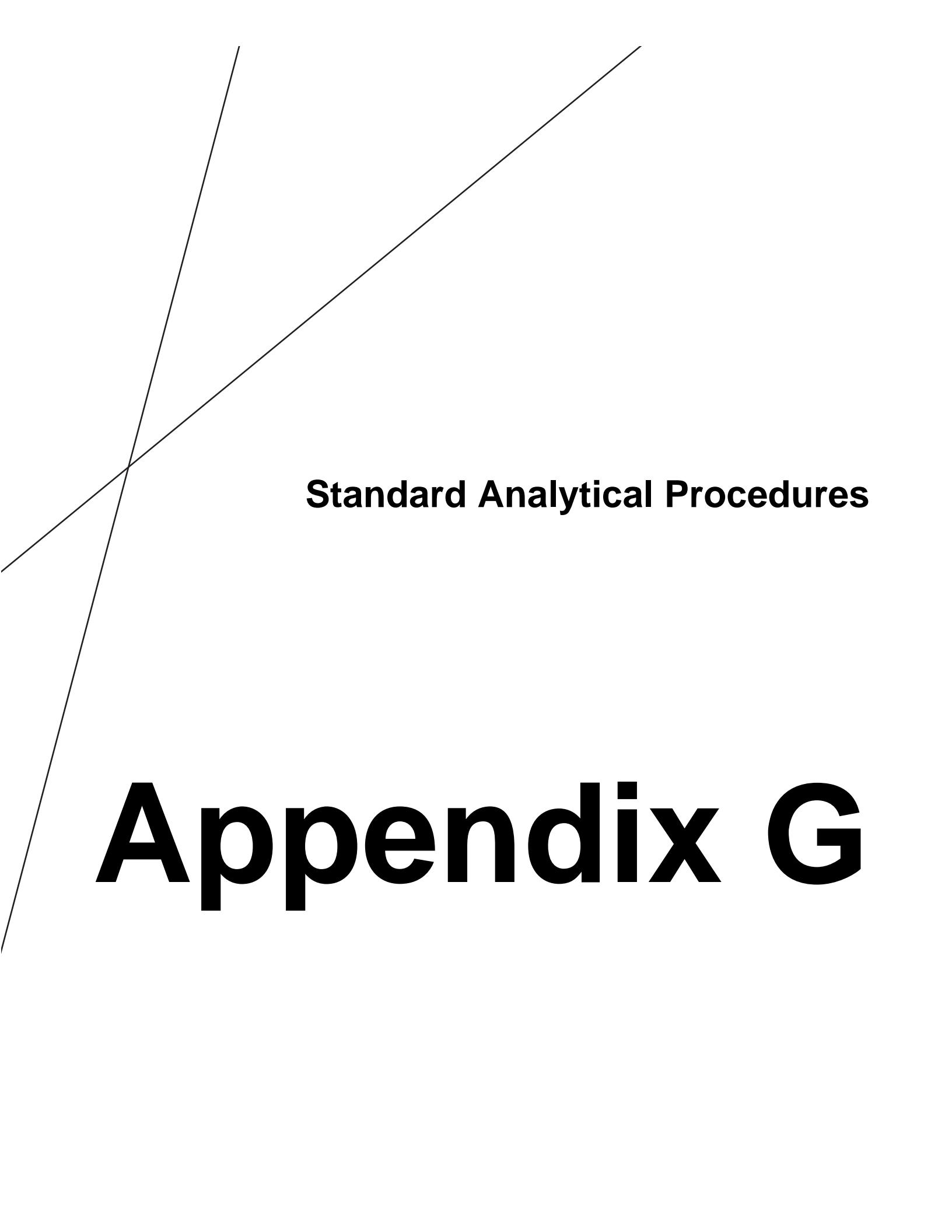
Include a copy of this form as the final appendix in the report for this site.

627 Main St - Google Maps

Google Maps 627 Main St







Standard Analytical Procedures

Appendix G

Standard Analytical Procedures

Samples were analyzed by Pace Analytical Services, Inc., Green Bay, Wisconsin (Wisconsin Certification No. 405132750).

The analytical methods used were:

- PVOCs + Naphthalene by WI MOD GRO
- Lead by EPA Method 6010

Sample detection limits for specific analyses are included in the laboratory analytical report.



Laboratory Report and Chain of Custody Form

Appendix H

July 25, 2016

Kyle Wagoner
AECOM, Inc. - Stevens Point
200 INDIANA AVE
Stevens Point, WI 54481

RE: Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

Dear Kyle Wagoner:

Enclosed are the analytical results for sample(s) received by the laboratory on July 12, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302	South Carolina Certification #: 83006001
Florida/NELAP Certification #: E87948	Texas Certification #: T104704529-14-1
Illinois Certification #: 200050	US Dept of Agriculture #: S-76505
Kentucky Certification #: 82	Virginia VELAP Certification ID: 460263
Louisiana Certification #: 04168	Virginia VELAP ID: 460263
Minnesota Certification #: 055-999-334	Wisconsin Certification #: 405132750
Virginia VELAP ID: 460263	Wisconsin DATCP Certification #: 105-444
North Dakota Certification #: R-150	

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SAMPLE SUMMARY

Project: 60492955 STH23-DARLINGTON
 Pace Project No.: 40135097

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40135097001	DP19-1 (1'-2')	Solid	07/06/16 12:05	07/12/16 10:10
40135097002	DP19-1 (6'-8')	Solid	07/06/16 12:15	07/12/16 10:10
40135097003	DP19-2 (2'-4')	Solid	07/06/16 12:50	07/12/16 10:10
40135097004	DP19-2 (8'-10')	Solid	07/06/16 13:00	07/12/16 10:10
40135097005	WASTE CHAR (SITE 19)	Solid	07/06/16 13:15	07/12/16 10:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40135097001	DP19-1 (1'-2')	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40135097002	DP19-1 (6'-8')	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40135097003	DP19-2 (2'-4')	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40135097004	DP19-2 (8'-10')	WI MOD GRO	PMS	10	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
40135097005	WASTE CHAR (SITE 19)	WI MOD DRO	CAH	1	PASI-G
		WI MOD GRO	PMS	3	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	BTH	1	PASI-G
		EPA 1010	DEY	1	PASI-G
		EPA 9095	DEY	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Method: WI MOD DRO

Description: WIDRO GCS

Client: AECOM, Inc. - Stevens Point

Date: July 25, 2016

General Information:

1 sample was analyzed for WI MOD DRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with WI MOD DRO with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: 229731

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1362923)
 - Diesel Range Organics
- LCSD (Lab ID: 1362924)
 - Diesel Range Organics

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: 229731

P2: Re-extraction or re-analysis could not be performed due to insufficient sample amount.

- WASTE CHAR (SITE 19) (Lab ID: 40135097005)
 - Diesel Range Organics

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Method: WI MOD GRO

Description: WIGRO GCV

Client: AECOM, Inc. - Stevens Point

Date: July 25, 2016

General Information:

5 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Method: **EPA 6010**

Description: 6010 MET ICP

Client: AECOM, Inc. - Stevens Point

Date: July 25, 2016

General Information:

3 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

Method: **EPA 1010**

Description: 1010 Flashpoint,Closed Cup

Client: AECOM, Inc. - Stevens Point

Date: July 25, 2016

General Information:

1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Method: **EPA 9095**

Description: 9095 Paint Filter Liquid Test

Client: AECOM, Inc. - Stevens Point

Date: July 25, 2016

General Information:

1 sample was analyzed for EPA 9095. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Sample: DP19-1 (1'-2') Lab ID: **40135097001** Collected: 07/06/16 12:05 Received: 07/12/16 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	07/13/16 06:30	07/13/16 21:06	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	07/13/16 06:30	07/13/16 21:06	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1	07/13/16 06:30	07/13/16 21:06	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	38.2	mg/kg		1.1	0.41	1	07/13/16 16:15	07/14/16 14:20	7439-92-1
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	11.8	%		0.10	0.10	1		07/19/16 11:59	

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ANALYTICAL RESULTS

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Sample: DP19-1 (6'-8') **Lab ID: 40135097002** Collected: 07/06/16 12:15 Received: 07/12/16 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	07/14/16 07:50	07/14/16 11:01	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:01	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	07/14/16 07:50	07/14/16 11:01	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.5	%	0.10	0.10	1			07/19/16 11:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Sample: DP19-2 (2'-4') **Lab ID: 40135097003** Collected: 07/06/16 12:50 Received: 07/12/16 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	07/14/16 07:50	07/14/16 11:27	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:27	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	07/14/16 07:50	07/14/16 11:27	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	19.0	mg/kg		1.3	0.45	1	07/13/16 16:15	07/14/16 14:22	7439-92-1
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	15.7	%		0.10	0.10	1		07/19/16 11:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

Sample: DP19-2 (8'-10') Lab ID: 40135097004 Collected: 07/06/16 13:00 Received: 07/12/16 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	71-43-2	W
Ethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	1634-04-4	W
Naphthalene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	91-20-3	W
Toluene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	108-67-8	W
m&p-Xylene	<50.0	ug/kg	100	50.0	1	07/14/16 07:50	07/14/16 11:52	179601-23-1	W
o-Xylene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 11:52	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	07/14/16 07:50	07/14/16 11:52	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	31.2	%	0.10	0.10	1			07/19/16 11:59	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

Sample: WASTE CHAR (SITE 19) Lab ID: 40135097005 Collected: 07/06/16 13:15 Received: 07/12/16 10:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO								
Diesel Range Organics	1.7J	mg/kg	1.9	0.77	1	07/13/16 09:13	07/14/16 11:43		L2,P2
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	<25.0	ug/kg	50.0	25.0	1	07/14/16 07:50	07/14/16 10:35	71-43-2	W
Gasoline Range Organics	<2.9	mg/kg	5.9	2.9	1	07/14/16 07:50	07/14/16 10:35		
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	07/14/16 07:50	07/14/16 10:35	98-08-8	
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Lead	27.7	mg/kg	6.4	2.3	5	07/13/16 16:15	07/14/16 15:04	7439-92-1	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	14.9	%	0.10	0.10	1			07/19/16 11:59	
1010 Flashpoint,Closed Cup	Analytical Method: EPA 1010								
Flashpoint	>210	deg F			1			07/13/16 14:39	
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095								
Free Liquids	Pass	no units			1			07/14/16 11:42	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch:	229708	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	40135097001		

METHOD BLANK: 1362877 Matrix: Solid

Associated Lab Samples: 40135097001

Parameter	Units	Blank	Reporting		Qualifiers
		Result	Limit	Analyzed	
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	07/13/16 08:49	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	07/13/16 08:49	
Benzene	ug/kg	<25.0	50.0	07/13/16 08:49	
Ethylbenzene	ug/kg	<25.0	50.0	07/13/16 08:49	
m&p-Xylene	ug/kg	<50.0	100	07/13/16 08:49	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	07/13/16 08:49	
Naphthalene	ug/kg	<25.0	50.0	07/13/16 08:49	
o-Xylene	ug/kg	<25.0	50.0	07/13/16 08:49	
Toluene	ug/kg	<25.0	50.0	07/13/16 08:49	
a,a,a-Trifluorotoluene (S)	%	101	80-120	07/13/16 08:49	

LABORATORY CONTROL SAMPLE & LCSD: 1362878

1362879

Parameter	Units	Spike	LCS	LCSD	LCS	LCSD	% Rec	RPD	Max RPD	Qualifiers
		Conc.	Result	Result	% Rec	% Rec	Limits			
1,2,4-Trimethylbenzene	ug/kg	1000	1100	1120	110	112	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1080	1100	108	110	80-120	1	20	
Benzene	ug/kg	1000	1070	1080	107	108	80-120	1	20	
Ethylbenzene	ug/kg	1000	1080	1090	108	109	80-120	1	20	
m&p-Xylene	ug/kg	2000	2140	2170	107	108	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1080	1100	108	110	80-120	2	20	
Naphthalene	ug/kg	1000	994	1040	99	104	80-120	4	20	
o-Xylene	ug/kg	1000	1080	1100	108	110	80-120	2	20	
Toluene	ug/kg	1000	1070	1080	107	108	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				102	101	80-120			

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch:	229826	Analysis Method:	WI MOD GRO
QC Batch Method:	TPH GRO/PVOC WI ext.	Analysis Description:	WIGRO Solid GCV
Associated Lab Samples:	40135097002, 40135097003, 40135097004, 40135097005		

METHOD BLANK: 1363630 Matrix: Solid

Associated Lab Samples: 40135097002, 40135097003, 40135097004, 40135097005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	07/14/16 08:58	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	07/14/16 08:58	
Benzene	ug/kg	<25.0	50.0	07/14/16 08:58	
Ethylbenzene	ug/kg	<25.0	50.0	07/14/16 08:58	
Gasoline Range Organics	mg/kg	<1.6	5.0	07/14/16 08:58	
m&p-Xylene	ug/kg	<50.0	100	07/14/16 08:58	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	07/14/16 08:58	
Naphthalene	ug/kg	<25.0	50.0	07/14/16 08:58	
o-Xylene	ug/kg	<25.0	50.0	07/14/16 08:58	
Toluene	ug/kg	<25.0	50.0	07/14/16 08:58	
a,a,a-Trifluorotoluene (S)	%	100	80-120	07/14/16 08:58	

LABORATORY CONTROL SAMPLE & LCSD: 1363631 1363632

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1110	1130	111	113	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1080	1110	108	111	80-120	2	20	
Benzene	ug/kg	1000	1060	1080	106	108	80-120	1	20	
Ethylbenzene	ug/kg	1000	1070	1100	107	110	80-120	2	20	
Gasoline Range Organics	mg/kg	10	10.4	10.3	104	103	80-120	1	20	
m&p-Xylene	ug/kg	2000	2140	2180	107	109	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1070	1050	107	105	80-120	3	20	
Naphthalene	ug/kg	1000	975	983	98	98	80-120	1	20	
o-Xylene	ug/kg	1000	1090	1100	109	110	80-120	1	20	
Toluene	ug/kg	1000	1070	1070	107	107	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%			103	101	101	80-120			

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch: 229805 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 40135097001, 40135097003, 40135097005

METHOD BLANK: 1363545 Matrix: Solid

Associated Lab Samples: 40135097001, 40135097003, 40135097005

Parameter	Units	Blank	Reporting	Analyzed	Qualifiers
		Result	Limit		
Lead	mg/kg	<0.43	1.2	07/14/16 13:22	

LABORATORY CONTROL SAMPLE: 1363546

Parameter	Units	Spike	LCS	LCS	% Rec	Qualifiers
		Conc.	Result	% Rec	Limits	
Lead	mg/kg	50	44.4	89	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1363547 1363548

Parameter	Units	40135084006	MS	MSD	MS	MSD	MS	MSD	% Rec	% Rec	Max	RPD	RPD	Qual
		Result	Spike	Spike										
Lead	mg/kg	1.4	52.1	52.1	50.8	50.2	95	94	75-125	1	20			

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON
Pace Project No.: 40135097

QC Batch:	229731	Analysis Method:	WI MOD DRO
QC Batch Method:	WI MOD DRO	Analysis Description:	WIDRO GCS
Associated Lab Samples: 40135097005			

METHOD BLANK: 1362922 Matrix: Solid

Associated Lab Samples: 40135097005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	<0.80	2.0	07/14/16 09:07	

LABORATORY CONTROL SAMPLE & LCSD: 1362923 1362924

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Diesel Range Organics	mg/kg	40	26.4	27.1	66	68	70-120	3	20	L0

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch: 230206 Analysis Method: ASTM D2974-87

QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 40135097001, 40135097002, 40135097003, 40135097004, 40135097005

SAMPLE DUPLICATE: 1365855

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	25.7	26.2	2	10	

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch:	229732	Analysis Method:	EPA 1010
QC Batch Method:	EPA 1010	Analysis Description:	1010 Flash Point, Closed Cup
Associated Lab Samples:	40135097005		

LABORATORY CONTROL SAMPLE: 1362925

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Flashpoint	deg F		80.6			

SAMPLE DUPLICATE: 1363281

Parameter	Units	40135083019 Result	Dup Result	RPD	Max RPD	Qualifiers
Flashpoint	deg F	131	111			

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QUALITY CONTROL DATA

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

QC Batch: 229870 Analysis Method: EPA 9095

QC Batch Method: EPA 9095 Analysis Description: 9095 PAINT FILTER LIQUID TEST

Associated Lab Samples: 40135097005

SAMPLE DUPLICATE: 1363903

Parameter	Units	Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids	no units	40135061001	Pass	Pass		

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QUALIFIERS

Project: 60492955 STH23-DARLINGTON

Pace Project No.: 40135097

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

P2 Re-extraction or re-analysis could not be performed due to insufficient sample amount.

W Non-detect results are reported on a wet weight basis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 60492955 STH23-DARLINGTON
 Pace Project No.: 40135097

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40135097005	WASTE CHAR (SITE 19)	WI MOD DRO	229731	WI MOD DRO	229787
40135097001	DP19-1 (1'-2')	TPH GRO/PVOC WI ext.	229708	WI MOD GRO	229762
40135097002	DP19-1 (6'-8')	TPH GRO/PVOC WI ext.	229826	WI MOD GRO	229836
40135097003	DP19-2 (2'-4')	TPH GRO/PVOC WI ext.	229826	WI MOD GRO	229836
40135097004	DP19-2 (8'-10')	TPH GRO/PVOC WI ext.	229826	WI MOD GRO	229836
40135097005	WASTE CHAR (SITE 19)	TPH GRO/PVOC WI ext.	229826	WI MOD GRO	229836
40135097001	DP19-1 (1'-2')	EPA 3050	229805	EPA 6010	229873
40135097003	DP19-2 (2'-4')	EPA 3050	229805	EPA 6010	229873
40135097005	WASTE CHAR (SITE 19)	EPA 3050	229805	EPA 6010	229873
40135097001	DP19-1 (1'-2')	ASTM D2974-87	230206		
40135097002	DP19-1 (6'-8')	ASTM D2974-87	230206		
40135097003	DP19-2 (2'-4')	ASTM D2974-87	230206		
40135097004	DP19-2 (8'-10')	ASTM D2974-87	230206		
40135097005	WASTE CHAR (SITE 19)	ASTM D2974-87	230206		
40135097005	WASTE CHAR (SITE 19)	EPA 1010	229732		
40135097005	WASTE CHAR (SITE 19)	EPA 9095	229870		

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Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Client Name: ACCOM

Project #

WO# : 40135097



40135097

Courier: FedEx UPS Client Pace Other:Tracking #: 1ZAY478EG9D197631390Custody Seal on Cooler/Box Present: yes no Seals intact: yes noCustody Seal on Samples Present: yes no Seals intact: yes noPacking Material: Bubble Wrap Bubble Bags None OtherThermometer Used: DM Type of Ice: Wet Blue Dry NoneCooler Temperature: Uncorr: 7.01 /Corr: Biological Tissue is Frozen: yes Samples on ice, cooling process has begun noTemp Blank Present: yes no

Temp should be above freezing to 6°C for all sample except Biota.

Frozen Biota Samples should be received ≤ 0°C.

Comments:

Person examining contents:
Date: 7-12-16
Initials: MM

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1. <u>yellow copy only mm 71216</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>71216</u>
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>004-TD & DP10-1 (8-10) vial + poly</u> <u>005-TD waste char no</u>
-Includes date/time/ID/Analysis Matrix:	<u>S</u>	
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13. <input checked="" type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH +ZnAct <u>depth on clear jar mm 71216</u>
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO ₃ , H ₂ SO ₄ ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed Lab Std #ID of preservative Date/ Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

If checked, see attached form for additional comments Person Contacted: Marcia Hopkins Date/Time: 7-13-16

Comments/ Resolution:

Sample FD for 004 is DP19-2 (8-10') for MTH 7-13-16 contProject Manager Review: CRDate: 7-18-16

About AECOM

AECOM (NYSE: ACM) is built to deliver a better world. We design, build, finance and operate infrastructure assets for governments, businesses and organizations in more than 150 countries.

As a fully integrated firm, we connect knowledge and experience across our global network of experts to help clients solve their most complex challenges.

From high-performance buildings and infrastructure, to resilient communities and environments, to stable and secure nations, our work is transformative, differentiated and vital. A Fortune 500 firm, AECOM companies had revenue of approximately US\$19 billion during the 12 months ended June 30, 2015.

See how we deliver what others can only imagine at aeom.com and @AECOM.

Contact

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Project Manager
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E kyle.wagoner@aeom.com