



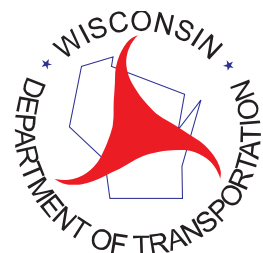
**Phase 2
Subsurface Investigation**

for

**IH 94 East/West & Stadium Interchange
Site 151: Former Mr. P's Tires
2705 Clybourn Street**

WisDOT ID: 1060-27-02

February 2, 2015



**PHASE 2
SUBSURFACE INVESTIGATION**

**IH 94 East/West & Stadium Interchange
Site 151: Former Mr. P's Tires
2705 West Clybourn Street**

Prepared for:

Wisconsin Department of Transportation
141 NW Barstow Street
Waukesha, Wisconsin 53187

PROJECT ID: 1060-27-02

Prepared by:

Kapur & Associates, Inc.
7711 North Port Washington Road
Milwaukee, Wisconsin 53217

February 2, 2015



Travis W. Peterson
Project Manager

TABLE OF CONTENTS

1.0	INTRODUCTION	1
1.1	Project Description.....	1
1.2	Site Background	1
1.3	Owner, Consultant and Subcontractors List.....	2
1.4	Regional and Local Geology and Hydrogeology	3
2.0	PHASE 2 SUBSURFACE INVESTIGATION	4
2.1	Soil Investigation Findings	4
2.2	Groundwater Investigation Findings.....	5
2.3	Contaminant Migration	5
3.0	CONCLUSIONS	6
4.0	RECOMMENDATIONS	7
5.0	REFERENCES	8

APPENDICES

- A. Site Photographs**
- B. WDNR Soil Boring Logs and Abandonment Forms**
- C. Laboratory Analytical Reports and Chain of Custody**
- D. Methods of Investigation**

LIST OF ABBREVIATIONS

bgs	Below Ground Surface
DRO	Diesel Range Organics
FDM	Facilities Development Manual
GRO	Gasoline Range Organics
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
LDL	Laboratory Detection Limit
MDL	Method Detection Limit
mg/kg	Milligrams/kilogram
MRL	Method Reporting Limit
MSL	Mean Sea Level
PAH	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PAL	Preventive Action Limit
PID	Photoionization Detector
VOC	Volatile Organic Compounds
RCL	Residual Contaminant Level
RCRA	Resource Conservation Recovery Act
ROW	Right-of-Way
WAC	Wisconsin Administrative Code
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation

1.0 INTRODUCTION

This report documents the findings of a Phase 2 Subsurface Investigation (Phase 2) in accordance with the WisDOT FDM Procedure 21-35-10, dated December 22, 2011 (Ref. 1), for the IH 94 East/West & Stadium Interchange, Site 151: Former Mr. P's Tires at 2705 West Clybourn Street in the City of Milwaukee, Milwaukee County, Wisconsin. This Phase 2 was conducted as part of the IH 94 East/West & Stadium Interchange Project (hereafter called the project corridor). This Phase 2 was performed for WisDOT.

1.1 Project Description

The project improvement plans include the reconstruction of approximately 3.5 miles of the IH 94 freeway corridor from 70th Street (west limit) to 16th Street (east limit), one system interchange (Stadium Interchange: IH-94/Wisconsin 341, USH 41), and five service interchanges (the 68th-70th split diamond, Hawley Road, Mitchell Boulevard, 35th Street, and 27th Street) within those termini.

The portion of the project corridor which includes the Phase 2 is described as being a part of the Southeast ¼ of the Southeast ¼ of Section 25, Township 7 North, Range 21 East, in the City of Milwaukee, Milwaukee County, Wisconsin. Figure 1 is a topographic map showing the location of the Phase 2 Site. Figure 2 is an aerial photograph of the site. The proposed project real estate requirements are shown in Figures 3 and 3a. Partial acquisition is required for Alternative 1. Construction requirements include excavation in the current and proposed ROW. Figure 4 is a map of the boring locations. Plan and Profile documentation of the area is not available at this time.

1.2 Site Background

Kapur & Associates, Inc. (Kapur) completed a Phase 1 Hazardous Material Assessment (Phase 1) of the IH 94 East/West & Stadium Interchange on June 30, 2014 (Ref. 2). Based upon the findings and conclusions made in the Phase 1 report, and the location along the project corridor, Kapur recommended a Phase 2 at Site 151: Former Mr. P's Tires at 2705 West Clybourn Street, due to the potential for subsurface soil and groundwater impacts given the past land use and identified environmental concerns.

The site is currently Select Tire Sales. The site is covered with asphalt and has two bays for automobile service. There are multiple oil stains on the asphalt parking area. A large

rectangular asphalt patch is located in the northeast corner of the site. Historical aerial photos show multiple parked vehicles. No canopy was observed and no USTs or ASTs have been registered to the site. The site is a filling station on the 1969 and 1951 Sanborns, undeveloped on the 1910 Sanborn, and a dwelling on the 1894 Sanborn map. The tanks were depicted along West Clybourn Street on the 1969 and 1951 Sanborn maps. Based upon the historic use of the site as an automotive repair facility, gasoline station, and the real estate and construction requirements, a Phase 2 was recommended for both design alternatives at the site.

WisDOT approved of Kapur's scope of work for the subject site dated November 6, 2014.

1.3 Owner, Consultant and Subcontractors List

The following section summarizes the names, addresses, and telephone numbers of the property owner, consultant, and subcontractors:

Owner

Mark K. Pachefsky
4475 Club Drive
Polk, Wisconsin 53208
Contact Phone: (414) 344-9233

WisDOT

Andrew Malsom, P.E.
HAZMAT & Environmental Engineer
Contact Phone: (262) 548-0675

Consultant

Kapur & Associates, Inc.
7711 North Port Washington Road
Milwaukee, Wisconsin 53217
Phone: (414) 751-7200
Contact: Travis Peterson, Project Manager

Contracts for Commodity Services

Soil Boring &
Well Installation

GESTRA Engineering, Inc.
1626 West Fond Du Lac Avenue
Milwaukee, Wisconsin 53205
Phone: (414) 933-7444
Contact: Masud Alam

Analytical Testing

Pace Analytical
1241 Bellevue Street, Suite 9
Green Bay, Wisconsin 54302
Phone: (920) 469-2436
Contact: Christopher Hyska

1.4 Regional and Local Geology and Hydrogeology

According to the 1994 United States Geological Survey (USGS) topographic maps (7.5-minute series, Milwaukee Quadrangle); the ground surface elevation of the Phase 2 site is approximately 680 feet above MSL (Figure 1, Ref. 3). The groundwater elevation is expected to be from 25-35 feet bgs (Ref. 4). Several soil types were evident at the site including: silty sands, low permeability silty clay, soft to stiff clays, and saturated silty loam. Depth to bedrock is expected to be greater than 100 feet bgs (Ref. 5).

2.0 PHASE 2 SUBSURFACE INVESTIGATION

2.1 Soil Investigation Findings

On November 26, Kapur supervised the installation of four (4) soil borings, 151-1, 151-2, 151-3, 151-4, by GESTRA Engineering of Milwaukee, Wisconsin. The borings were advanced using split spoon and GeoProbe methods within the proposed right of way limits, to a maximum depth of 20 feet bgs. A total of forty (40) soil samples, from 151-1 through 151-4, were field screened using a PID. Based upon field observations and PID readings, eight (8) soil samples were collected and submitted to Pace Analytical of Green Bay, Wisconsin (WDNR Certification #: 405132750) for laboratory analysis of DRO, GRO, VOCs, and lead. Field observations and laboratory analytical results of the soil investigation indicated:

- The soils located at the site include topsoil over silty clay loam to clay loam in 151-1 through 151-4 to a maximum boring depth of 20 feet bgs.
- Split spoon sampling technique was used for soil borings 151-1 and 151-2 due to tight clays. Geoprobe sampling technique was used for soil borings 151-3 and 151-4.
- Petroleum odor was noted throughout soil boring 151-2 as well as at approximately 4 feet bgs in 151-3.
- PID readings ranged from 25 ppmv to 50 ppmv in soil borings 151-1, 151-3, and 151-4. PID readings in 151-2 ranged from 51 ppmv to 1,308 ppmv.
- Laboratory analysis of VOCs indicated that ethylbenzene (1.58 mg/kg) and naphthalene (5.31 mg/kg) were detected above their corresponding (1.57 mg/kg and 5.15 mg/kg, respectively) standards in 151-2 at 3 to 5 feet bgs. 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, m&p-xylene, p-isopropyltoluene and sec-butylbenzene were detected above LDLs but below all applicable standards in boring 151-2 at 3 to 5 feet bgs. No other VOCs were detected above laboratory detection limits.
- Lead was detected between 5.6 and 15 mg/kg, which is below all applicable standards.
- There are not any current applicable WDNR standards for DRO and GRO. DRO was detected between 0.95 and 24.3 mg/kg at the site below the former NR 720 standard (prior to November of 2013) of 250 mg/kg for clayey type soils. GRO was detected above the former NR 720 standard of 250 mg/kg for clayey type soils at a concentration of 456 mg/kg.

Table 1 outlines the soil sample analytical results from 151-1 through 151-4. Figure 4 illustrates the soil boring locations at the Phase 2 site. Photographs of the Phase 2 activities are included in Appendix A. Soil Boring Logs and Borehole Abandonment Forms are presented in Appendix B. The complete laboratory analytical report and chain of custody are presented in Appendix C. The methods of investigation for this Phase 2 are included in Appendix D.

2.2 Groundwater Investigation Findings

Groundwater was not encountered during drilling activities and no samples were obtained.

2.3 Contaminant Migration

Based on identified analytical results and proximity of the soil borings to area utility corridors, the potential for migration of contaminants exists within the project corridor.

3.0 CONCLUSIONS

Based on field observations and laboratory analytical results of the Phase 2 activities performed at the site, Kapur has reached the following conclusions regarding the IH 94 East/West & Stadium Interchange Project, Site 151: Former Mr. P's Tires at 2705 West Clybourn Street in the City of Milwaukee, Milwaukee County, Wisconsin:

SOIL

Contaminant impacts to the subsurface soils, including ethylbenzene and naphthalene were identified above applicable soil to groundwater pathway and non-industrial direct contact standards at Site 151: Former Mr. P's Tires at 2705 West Clybourn Street in the City of Milwaukee, Milwaukee County, Wisconsin.

Lead was detected between 5.6 and 15 mg/kg which is below all applicable standards.

DRO was detected between 0.95 and 24.3 mg/kg at the site which is below the former NR 720 standard of 250 mg /kg for clayey type soils.

GRO was detected at 456 mg/kg which is above the former standard of 250 mg/kg for clayey type soils.

The likely source of the detected compounds is the historical use of the property as an automotive repair facility and filling station.

GROUNDWATER

Groundwater was not encountered during drilling activities at the site.

4.0 RECOMMENDATIONS

Based on field observations and laboratory analytical results of the Phase 2 activities performed at the site, Kapur makes the following recommendations regarding the IH 94 East-West Corridor Study, Site 151: Former Mr. P's Tires (2705 West Clybourn Street) in the City of Milwaukee, Milwaukee County, Wisconsin:

- A Phase 3 Subsurface Investigation is recommended to delineate the encountered VOC, DRO, GRO, and lead contamination within the area of acquisition.
- The WDNR should be notified of contamination encountered on the property, per the hazardous substance spills law, Section 292.11(2).

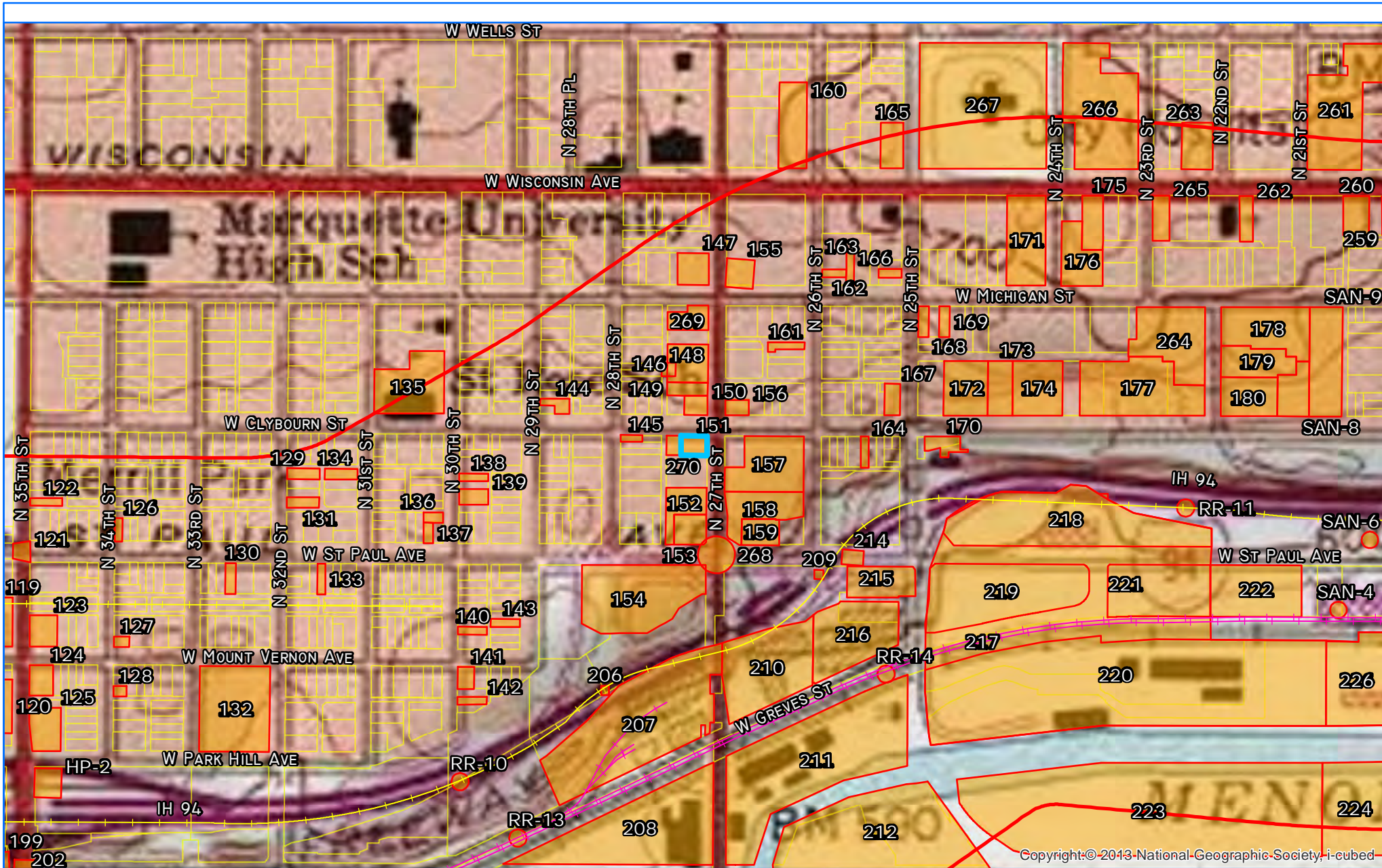
5.0 REFERENCES

1. Wisconsin Department of Transportation (WisDOT) Facilities Development Manual (FDM) Procedure 21-35-10. December 22, 2011.
2. Kapur & Associates (June 30, 2014) Phase 1 Hazardous Material Assessment, The IH 94 East-West Corridor Study, WisDOT ID: 1060-27-00, Milwaukee County, Wisconsin.
3. USGS Topographic Maps (1994). Wauwatosa Quadrangle, 7.5 minute Series.
4. Southeastern Wisconsin Regional Planning Commission and the Wisconsin Geological and Natural History Survey (June, 2002). Technical Report Number 37, Groundwater Resources of Southeastern Wisconsin.
5. M.G. Mudrey, Jr., B.A. Brown and J.K. Greenberg (1982). Bedrock Geologic Map of Wisconsin.

This investigation has been conducted to assess likely sources of environmental concern and does not represent an exhaustive study of all possible concerns within the project corridor. The conclusions and recommendations contained herein have been developed through the interpretation of currently available information, given the time and budget constraints of the project, and represent the professional opinion of Forward 45. Other than this, no warranty is implied or intended.

S:\DOT\DOT_SE\120260 I94 East West Corridor Study\HAZMAT\PHASE 2\2014 Phase 2's\Phase 2 Reports\Site 151\Site 151 Phase 2.doc

FIGURES & TABLES



SHEET:
SITE LOCATION MAP

PROJECT:
IH 94 EAST-WEST CORRIDOR STUDY - WISDOT ID: 1060-27-00

LOCATION:
SITE 151: FORMER MR PS TIRES, 2705 W CLYBOURN STREET

FIGURE:
1

NORTH ARROW:



- Hazardous Material Sites
- Current Hazardous Material Site

1 inch = 500 feet

we listen. we innovate.
we turn your vision into reality.

DRAWN BY: BJT

CHECKED BY: TEH

APPROVED BY: KAF

PROJECT NO. 12.0260.01

DATE: 01/30/2014

REVISION DATE:

W CLYBOURN ST

W CLYBOURN ST



270

151

N 27TH ST

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community 157



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SHEET:

Aerial Photograph

PROJECT:

IH 94 EAST-WEST CORRIDOR STUDY - WISDOT ID: 1060-27-00

LOCATION:

SITE 151: FORMER MR. PS TIRES, 2705 W. CLYBOURN STREET

FIGURE:

2

NORTH ARROW:



- Site of Interest
- Site Recommended for Subsurface Investigation

1 inch = 27 feet

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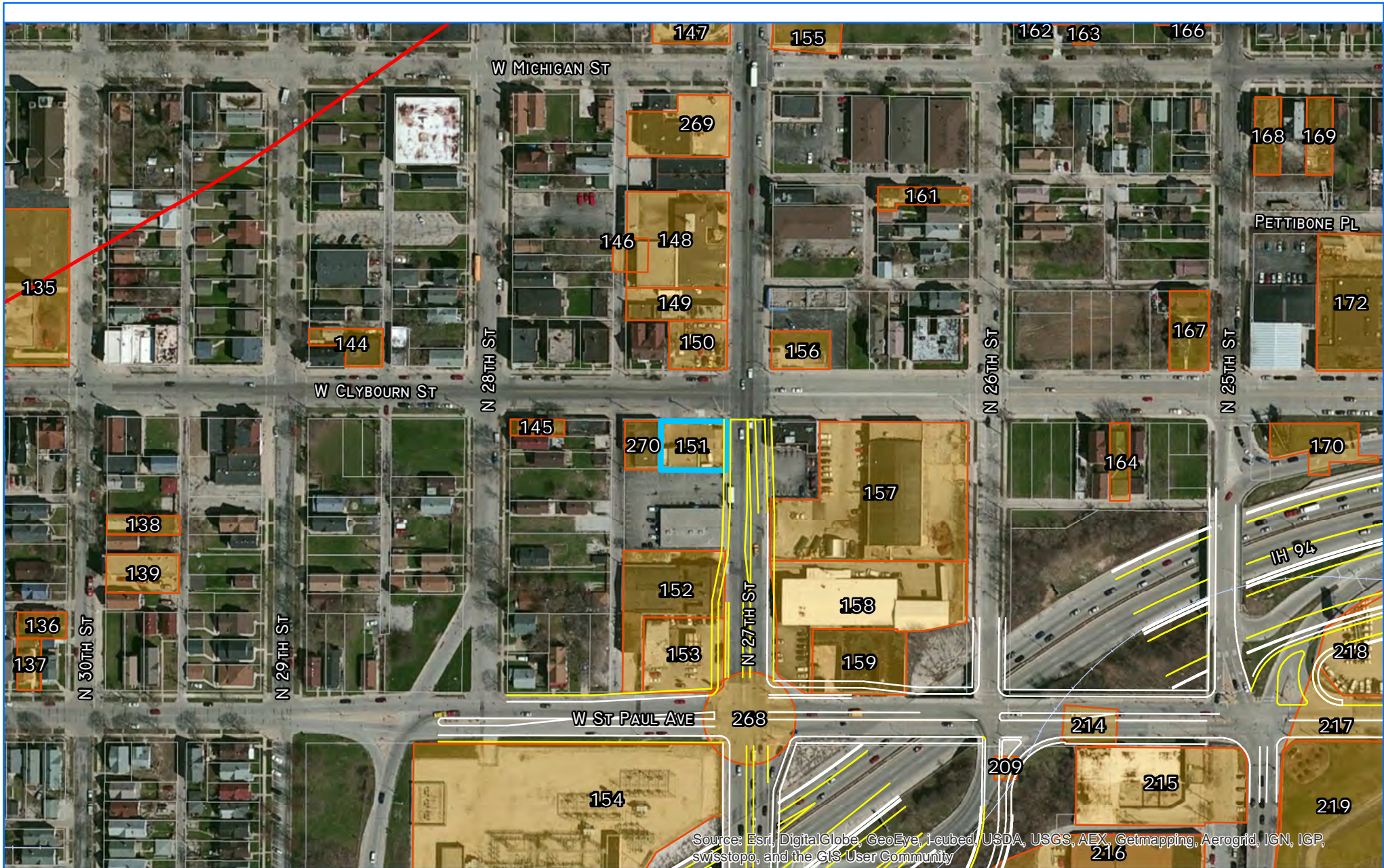
CHECKED BY: TEH

APPROVED BY: KAF

PROJECT NO. 12.0260.01

DATE: 01/30/2014

REVISION DATE:



SHEET:
ALTERNATIVE 1 IMPACTS

PROJECT:
IH 94 EAST-WEST CORRIDOR STUDY - WISDOT ID: 1060-27-00

LOCATION:
SITE 151: FORMER MR PS TIRES, 2705 W CLYBOURN STREET

FIGURE:
3

NORTH ARROW:



- Hazardous Material Sites
- Current Hazardous Material Site
- 1320 ft Buffer

1 inch = 200 feet

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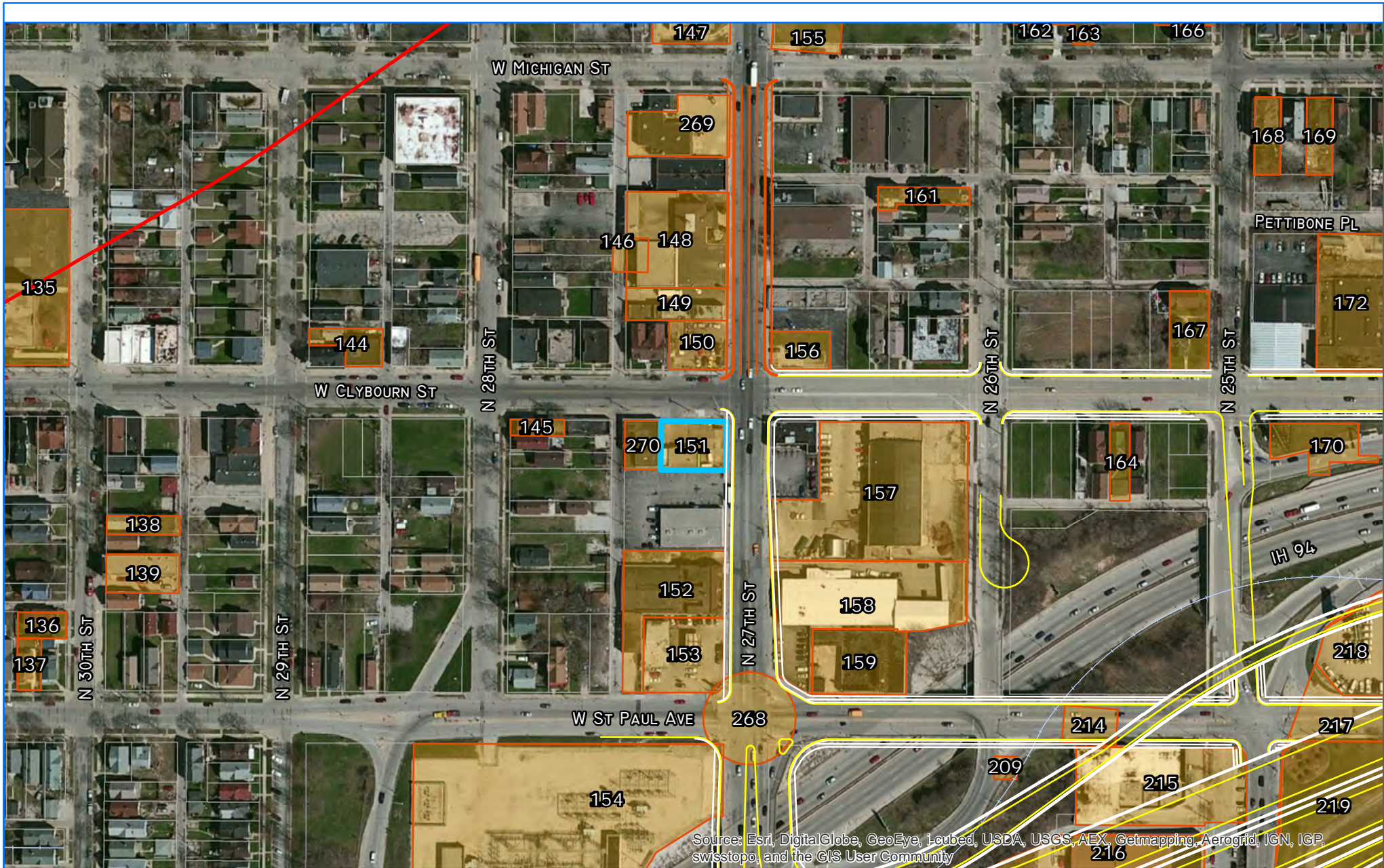
CHECKED BY: TEH

APPROVED BY: KAF

PROJECT NO. 12.0260.01

DATE: 04/15/2014

REVISION DATE:



Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



SHEET:
ALTERNATIVE 2 IMPACTS

PROJECT:
IH 94 EAST-WEST CORRIDOR STUDY - WISDOT ID: 1060-27-00

LOCATION:
SITE 151: FORMER MR PS TIRES, 2705 W CLYBOURN STREET

DRAWN BY: BJT CHECKED BY: TEH APPROVED BY: KAF PROJECT NO. 12.0260.01 DATE: 04/16/2014 REVISION DATE:

FIGURE:
3a

NORTH ARROW:



- Hazardous Material Sites
- Current Hazardous Material Site
- 1320 ft Buffer

1 inch = 200 feet

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W CLYBOURN ST

W CLYBOURN ST



N 27TH ST

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community 157



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SHEET:

Soil Boring Map

PROJECT:

IH 94 EAST-WEST CORRIDOR STUDY - WISDOT ID: 1060-27-00

LOCATION:

SITE 151: FORMER MR. PS TIRES, 2705 W. CLYBOURN STREET

FIGURE:

4

NORTH ARROW:



- Hazardous Material Sites
- Current Hazardous Material Site
- Soil Boring Location

1 inch = 27 feet

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DRAWN BY: BJT

CHECKED BY: TEH

APPROVED BY: KAF

PROJECT NO. 12.0260.01

DATE: 01/30/2014

REVISION DATE:

Table 1: Soil Analytical Results for Site 151 - Hits Only
 Former Mr. P's Tires
 2705 West Clyborn Street
 Milwaukee, Wisconsin

Parameter	WI NR 720 Soil Cleanup Standards Direct Contact Industrial mg/kg	WI NR 720 Soil Cleanup Standards Direct Contact Non-Industrial mg/kg	WI NR 720 Soil to Groundwater Pathway mg/kg	November 26, 2014								
				151-1 (2-4)	151-1 (17-18)	151-2 (3-5)	151-2 (17-18)	151-3 (3-5)	151-3 (17-18)	151-4 (2-4)	151-4 (17-18)	TRIP
				Diesel Range Organics (DRO)				0.95 J	1.8 J	24.3	<0.97	<0.92
Gasoline Range Organics (GRO)				<2.8	<3.0	456	<3.0	<2.9	<2.9	<3.2	<3.0	<2.5
Lead	800	400	27	8.0	5.6	6.7	6.7	15	5.6	8	7.3	NA
Volatile Organic Compounds (VOCs)												
1,2,4-Trimethylbenzene	219	89.8		<0.025	<0.025	0.11	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
1,3,5-Trimethylbenzene	182	182		<0.025	<0.025	0.035 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Ethylbenzene	37	7.47	1.57	<0.025	<0.025	1.58	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Isopropylbenzene (Cumene)	268	268		<0.025	<0.025	1.04	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Naphthalene	26	5.15	0.659	<0.040	<0.040	5.31	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040
n-Butylbenzene	108	108		<0.025	<0.025	2.2	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
n-Propylbenzene	264	264		<0.025	<0.025	3.71	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
m&p-Xylene				<0.050	<0.050	0.0709 J	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
p-Isopropyltoluene	162	162		<0.025	<0.025	0.0434 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
sec-Butylbenzene	145	145		<0.025	<0.025	0.745	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Percent Moisture				12.2	16.3	14.8	17.1	12.9	14.8	21.7	17.6	NA

NOTES:

all results in mg/kg

only analytes with a detection in at least one sample are shown

(10) = sample depth in feet below ground surface

NA = Not Analyzed

Concentrations equal to or exceeding the NR 720 Soil RCL Industrial Direct Contact Standards are **'boxed' outlined & in bold**

Concentrations equal to or exceeding the NR 720 Soil RCL Non-Industrial Direct Contact Standards are **bold faced**

Concentrations equal to or exceeding the NR 720 Soil RCL Soil to Groundwater Standards are *italicized in red*

J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

APPENDIX A

SITE PHOTOGRAPHS

PHOTOGRAPHIC LOG


Photo #	Date	
1	11/26/14	
Description Subject Property: Installation site of 151-1 (foreground) (facing south)		

Photo #	Date	
2	11/26/14	
Description Subject Property: Installation of soil boring 151-1 (facing northeast)		

PHOTOGRAPHIC LOG

Photo #	Date	
3	11/26/14	
Description Subject Property: Installation of soil boring 151-2 (facing north)		

Photo #	Date	
4	11/26/14	
Description Subject Property: Installation of soil boring 151-3 (facing north)		

PHOTOGRAPHIC LOG

Photo #	Date	
5	11/26/14	
Description Subject Property:		
Installation of soil boring 151-4 (facing north)		

Photo #	Date	
6	11/26/14	
Description Subject Property:		
Abandonment of soil boring 151-4 (facing south)		

APPENDIX B

**WDNR SOIL BORING LOGS
AND
ABANDONMENT FORMS**

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

Facility/Project Name I94 East/West Corridor Study		License/Permit/Monitoring Number NA		Boring Number 151-1	
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil Gestra Engineering, Inc.		Date Drilling Started 11/26/2014		Date Drilling Completed 11/26/2014	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of SW 1/4 of Section 30, T 7 N, R 22 E		Lat _____ ' _____ "		Long _____ ' _____ "	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GS	24 24			CONCRETE				33.5						
GS	24 24		2	RUST, MOIST, LOOSE, COARSE SAND WITH CLAY	SW-SC			27.2	12.2					
GS	24 24		4	BROWN, MOIST, HARD CLAY WITH SILT	CL-ML			21.3	12.2					
GS	24 24		6	BROWN, MOIST, LOOSE, COARSE SAND WITH CLAY				12.3						
GS	24 24		8	RUST, MOIST, SOFT CLAY WITH SILT	ML			25.8						
GS	24 24		10	RUST, MOIST, HARD SILT WITH CLAY				6.5						
GS	24 24		12	GRAY, MOIST, HARD CLAY WITH SILT				29.8						
GS	24 24		14		CL-ML			31.6						
GS	24 24		16					15.8	16.3					
GS	24 24		18					13.7	16.3					
GS	24 24		20	END OF BORING				30.7						

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

Signature <i>Nicholas P. Canale</i>	Firm Kapur & Associates, Inc.	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name I94 East/West Corridor Study		License/Permit/Monitoring Number NA		Boring Number 151-2	
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil Gestra Engineering, Inc.		Date Drilling Started 11/25/2014		Date Drilling Completed 11/26/2014	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
NW 1/4 of SW 1/4 of Section 30, T 7 N, R 22 E		Lat _____ ° _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GS	24 24			CONCRETE				11.26						
				ROUND GRAVEL FILL										
GS	24 24		2	ROUND GRAVEL FILL WITH COARSE SAND				25.3						ODOR
GS	24 24		4					66.7	14.8					ODOR
GS	24 24		6	BROWN, MOIST, VERY HARD CLAY				1308	14.8					ODOR
GS	24 24		8					330						ODOR
GS	24 24		10					456						ODOR
GS	24 24		12		CL			247						ODOR
GS	24 24		14					125						ODOR
GS	24 24		16					225	17.1					ODOR
GS	24 24		18					97	17.1					ODOR
GS	24 24		20	END OF BORING				51.8						

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

Signature <i>Nicholas P. Conner</i>	Firm Kapur & Associates, Inc.	Tel: Fax:
--	---	--------------

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

Facility/Project Name I94 East/West Corridor Study		License/Permit/Monitoring Number NA		Boring Number 151-3	
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil Gestra Engineering, Inc.		Date Drilling Started 11/25/2014		Date Drilling Completed 11/26/2014	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location	
NW 1/4 of SW 1/4 of Section 30, T 7 N, R 22 E		Lat _____ ' _____ "		Feet <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Milwaukee		County Code 41	
				Civil Town/City/ or Village 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					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
GS	24 24		0	CONCRETE				23.6						
			1	BROWN, DRY, LOOSE, COARSE SAND	SW									
GS	24 24		2	BROWN, DRY, HARD SILT WITH CLAY				31.2						
GS	24 24		4		ML			17.4	12.9					ODOR
GS	24 24		6					18.6	12.9					
GS	24 24		8	BROWN, MOIST, HARD CLAY WITH SILT AND ROUNDED COARSE GRAVEL	CL-ML			25.1						
GS	24 24		10		CL-ML			11.2						
GS	24 24		12	BROWN, MOIST, VERY HARD CLAY WITH TRACE SILT										
GS	24 24		14		CL-ML			36.8						
GS	24 24		16		CL-ML			34.9	14.8					
GS	24 24		18					12.5	14.8					
GS	24 24		20	END OF BORING				11.3						

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

Signature <i>Nicholas P. Conner</i>	Firm Kapur & Associates, Inc.	Tel: Fax:
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Route To: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name I94 East/West Corridor Study		License/Permit/Monitoring Number NA		Boring Number 151-4	
Boring Drilled By: Name of crew chief (first, last) and Firm Mitch Panfil Gestra Engineering, Inc.		Date Drilling Started 11/26/2014		Date Drilling Completed 11/26/2014	
WI Unique Well No.		DNR Well ID No.		Common Well Name	
Final Static Water Level Feet MSL		Surface Elevation Feet MSL		Borehole Diameter 2.3 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input checked="" type="checkbox"/>		State Plane N, E S/C/N		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
NW 1/4 of SW 1/4 of Section 30, T 7 N, R 22 E		Lat _____ ° _____ ' _____ "		Long _____ ° _____ ' _____ "	
Facility ID		County Milwaukee		County Code 41	
		Civil Town/City/ or Village 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					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
GS	24 24			CONCRETE				26.1							
GS	24 24		2	RUST, DRY, SOFT CLAY WITH COARSE SAND AND COARSE ANGULAR GRAVEL	CL			22.3	21.7						
GS	24 24		4	RUST, DRY, SOFT SILT WITH CLAY				45.5	21.7						
GS	24 24		6		ML			56.3							
GS	24 24		8	GRAY, DRY, SOFT SILT WITH CLAY	ML			27.0							
GS	24 24		10	RUST, MOIST, SOFT SILT WITH CLAY AND COARSE ANGULAR GRAVEL	ML			24.8							
GS	24 24		12					24.5							
GS	24 24		14	RUST, MOIST, SOFT CLAY WITH SILT AND COARSE ANGULAR GRAVEL	CL-ML			34.7							
GS	24 24		16	GRAY, MOIST, SOFT CLAY WITH TRACE SILT				12.8	17.6						
GS	24 24		18		CL-ML			14.6	17.6						
GS	24 24		20	END OF BORING				29.9							

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

Signature <i>Nicholas P. Canale</i>	Firm Kapur & Associates, Inc.	Tel: Fax:
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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.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

1. General Information			2. Facility / Owner Information		
WI Unique Well No. NA	DNR Well ID No. NA	County Milwaukee	Facility Name I94 East/West Corridor Study		
Common Well Name 151-1		Gov't Lot # (if applicable)	Facility ID	License/Permit/Monitoring No. NA	

1/4 / 1/4 NW	1/4 SW	Section 30	Township 7 N	Range 22	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Street Address of Well
-----------------	-----------	---------------	-----------------	-------------	---	------------------------

Well Location <input type="checkbox"/> ft / <input type="checkbox"/> m (Local Grid <input type="checkbox"/>)		Datum		City, Village, or Town Milwaukee	
_____ N / S _____		_____ E / W _____		Present Well Owner	
_____ MSL		_____ MSL		Original Well Owner	
Zone		Zone		Street Address or Route of Present Owner 2705 W. Clyborn Street	

WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Local Grid Origin <input type="checkbox"/> ft / <input type="checkbox"/> m Datum		City	
_____ N, _____		_____ E / W _____		State	
_____ MSL		_____ MSL		Zip Code	
Zone		Zone		Milwaukee WI	

WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N		Reason For Abandonment Completed Soil Boring		WI Unique Well No. of Replacement Well	
--	--	---	--	--	--

3. Well / Drillhole / Borehole Information					
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 11/26/2014			
		If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____					
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock					
Total Well Depth From Groundsurface (ft.) 20.0		Casing Diameter (in.)			
Lower Drillhole Diameter (in.) 15.0		Casing Depth (ft.)			
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown					
If yes, to what depth (feet)?		Depth to Water (Feet)			

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump & Piping Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Liner(s) Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Screen Removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Casing Left in Place?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Was Casing Cut Off Below Surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Did Sealing Material Rise to Surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Did Material Settle After 24 Hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
If Yes, Was Hole Retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	

Required Method of Placing Sealing Material	
<input checked="" type="checkbox"/> Conductor Pipe - Gravity	<input type="checkbox"/> Conductor Pipe - Pumped
<input type="checkbox"/> Screened & Poured	<input type="checkbox"/> Other (Explain)
(Bentonite Chips)	

Sealing Materials		For monitoring wells and monitoring well boreholes only	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Granular Bentonite
<input type="checkbox"/> Concrete	<input type="checkbox"/> Clay-Sand Slurry	<input type="checkbox"/> Bentonite-Cement Grout	<input type="checkbox"/> Bentonite - Sand Slurry
<input type="checkbox"/> Bentonite-Sand Slurry	<input checked="" type="checkbox"/> Chipped Bentonite		

5. Material Used To Fill Well / Drillhole	From (Ft.)	To (Ft.)	Mix Ratio or Mud Weight
Bentonite Chips	Surface	19.5	7
Asphalt	0.5	0.0	1

6. Comments

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Sealing Work Gestra Engineering, Inc.	Date of Abandonment 11/26/14	Date Received	Noted By	
Street or Route 1626 W Fond du Lac Ave	Telephone Number 4149337444	Comments		
City Milwaukee	State WI	Zip Code 53205	Signature of Person Doing Work <i>Nicholas P. Conzel</i>	Date Signed 12/16/2014

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.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

1. General Information				2. Facility / Owner Information			
WI Unique Well No. NA		DNR Well ID No. NA		County Milwaukee		Facility Name I94 East/West Corridor Study	
Common Well Name 151-2				Gov't Lot # (if applicable)		Facility ID	
1/4 / 1/4 NW SW		Section 30		Township 7 N		Range 22 E	
Well Location <input type="checkbox"/> ft / <input type="checkbox"/> m (Local Grid <input type="checkbox"/>) Datum N/S E/W MSL Zone				Street Address of Well			
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				City, Village, or Town Milwaukee			
Local Grid Origin <input type="checkbox"/> ft / <input type="checkbox"/> m Datum N, E/W MSL Zone				Present Well Owner		Original Well Owner	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				Street Address or Route of Present Owner 2705 W. Clyborn Street			
Reason For Abandonment Completed Soil Boring		WI Unique Well No. of Replacement Well		City Milwaukee		State WI	
				Zip Code			
4. Pump, Liner, Screen, Casing & Sealing Material							
				Pump & Piping Removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
				Liner(s) Removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
				Screen Removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
				Casing Left in Place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
				Was Casing Cut Off Below Surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
				Did Sealing Material Rise to Surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
				Did Material Settle After 24 Hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
				If Yes, Was Hole Retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
3. Well / Drillhole / Borehole Information				5. Material Used To Fill Well / Drillhole			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 11/25/2014		From (Ft.)		To (Ft.)	
		If a Well Construction Report is available, please attach.		Surface		19.5	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____				7		Mix Ratio or Mud Weight	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Asphalt		0.5 0.0 1	
Total Well Depth From Groundsurface (ft.) 20.0		Casing Diameter (in.)					
Lower Drillhole Diameter (in.) 15.0		Casing Depth (ft.)					
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (Feet)					
If yes, to what depth (feet)?							
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work Gestra Engineering, Inc.		Date of Abandonment 11/26/14		Date Received		Noted By	
Street or Route 1626 W Fond du Lac Ave		Telephone Number 4149337444		Comments			
City Milwaukee		State WI		Zip Code 53205		Signature of Person Doing Work <i>Nicholas P. Conner</i>	
						Date Signed 12/16/2014	

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.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

1. General Information				2. Facility / Owner Information			
WI Unique Well No. NA		DNR Well ID No. NA		County Milwaukee		Facility Name I94 East/West Corridor Study	
Common Well Name 151-3				Gov't Lot # (if applicable)		Facility ID	
1/4 / 1/4 NW SW		Section 30		Township 7 N		Range 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Location <input type="checkbox"/> ft / <input type="checkbox"/> m (Local Grid <input type="checkbox"/>) Datum N/S E/W MSL Zone				Street Address of Well			
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				City, Village, or Town Milwaukee			
Local Grid Origin <input type="checkbox"/> ft / <input type="checkbox"/> m Datum N, E/W MSL Zone				Present Well Owner		Original Well Owner	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				Street Address or Route of Present Owner 2705 W. Clyborn Street			
Reason For Abandonment Completed Soil Boring				WI Unique Well No. of Replacement Well		City Milwaukee	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 11/25/2014		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Groundsurface (ft.) 20.0		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 15.0		Casing Diameter (in.)		Did Material Settle After 24 Hours? If Yes, Was Hole Retopped?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (Feet)		Required Method of Placing Sealing Material			
If yes, to what depth (feet)?				<input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)			
5. Material Used To Fill Well / Drillhole				Sealing Materials			
Bentonite Chips		From (Ft.) Surface		To (Ft.) 19.5		Mix Ratio 7	
Asphalt		0.5		0.0		1	
6. Comments				For monitoring wells and monitoring well boreholes only			
				<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite - Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite			
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work Gestra Engineering, Inc.		Date of Abandonment 11/26/14		Date Received		Noted By	
Street or Route 1626 W Fond du Lac Ave		Telephone Number 4149337444		Comments			
City Milwaukee		State WI		Zip Code 53205		Signature of Person Doing Work <i>Nicholas P. Conzel</i>	
						Date Signed 12/16/2014	

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.

Route to:

Drinking Water Watershed/Wastewater Waste Management Remediation/Redevelopment Other _____

1. General Information				2. Facility / Owner Information			
WI Unique Well No. NA		DNR Well ID No. NA		County Milwaukee		Facility Name I94 East/West Corridor Study	
Common Well Name 151-4				Gov't Lot # (if applicable)		Facility ID	
1/4 / 1/4 NW SW		Section 30		Township 7 N		Range 22 <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Location <input type="checkbox"/> ft / <input type="checkbox"/> m (Local Grid <input type="checkbox"/>) Datum N/S E/W MSL Zone				Street Address of Well			
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				City, Village, or Town Milwaukee			
Local Grid Origin <input type="checkbox"/> ft / <input type="checkbox"/> m Datum N, E/W MSL Zone				Present Well Owner		Original Well Owner	
WTM- <input type="checkbox"/> UTM- <input type="checkbox"/> Latitude/Longitude - <input type="checkbox"/> State Plane- <input type="checkbox"/> <input type="checkbox"/> S <input type="checkbox"/> C <input type="checkbox"/> N				Street Address or Route of Present Owner 2705 W. Clyborn Street			
Reason For Abandonment Completed Soil Boring				WI Unique Well No. of Replacement Well		City Milwaukee	
3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Drillhole / Borehole		Original Construction Date 11/26/2014		Pump & Piping Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Liner(s) Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type: <input type="checkbox"/> Drilled <input checked="" type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input type="checkbox"/> Other (Specify) _____		If a Well Construction Report is available, please attach.		Screen Removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Casing Left in Place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Total Well Depth From Groundsurface (ft.) 20.0		Was Casing Cut Off Below Surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Did Sealing Material Rise to Surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 15.0		Casing Diameter (in.)		Did Material Settle After 24 Hours? If Yes, Was Hole Retopped? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		Required Method of Placing Sealing Material <input checked="" type="checkbox"/> Conductor Pipe - Gravity <input type="checkbox"/> Conductor Pipe - Pumped <input type="checkbox"/> Screened & Poured <input type="checkbox"/> Other (Explain) (Bentonite Chips)	
Was Well Annular Space Grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (Feet)		Sealing Materials <input type="checkbox"/> Neat Cement Grout For monitoring wells and monitoring well boreholes only <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Clay-Sand Slurry <input type="checkbox"/> Bentonite-Sand Slurry <input checked="" type="checkbox"/> Chipped Bentonite <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite-Cement Grout <input type="checkbox"/> Bentonite - Sand Slurry			
If yes, to what depth (feet)?				5. Material Used To Fill Well / Drillhole			
				From (Ft.)		To (Ft.)	
						Mix Ratio or Mud Weight	
				Bentonite Chips		Surface 19.5 7	
				Asphalt		0.5 0.0 1	
6. Comments							
7. Supervision of Work				DNR Use Only			
Name of Person or Firm Doing Sealing Work Gestra Engineering, Inc.		Date of Abandonment 11/26/14		Date Received		Noted By	
Street or Route 1626 W Fond du Lac Ave		Telephone Number 4149337444		Comments			
City Milwaukee		State WI		Zip Code 53205		Signature of Person Doing Work <i>Nicholas P. Conzel</i>	
						Date Signed 12/16/2014	

APPENDIX C

LABORATORY ANALYTICAL REPORT AND CHAIN OF CUSTODY

December 11, 2014

Travis Peterson
KAPUR & ASSOCIATES, INC.
7711 N. Port Washington Road
Milwaukee, WI 53217

RE: Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

Dear Travis Peterson:

Enclosed are the analytical results for sample(s) received by the laboratory on December 01, 2014. 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

cc: Kapur ALL, KAPUR & ASSOCIATES, INC.
Nicholas Connor, Kapur & Associates, Inc.
Trish Hermann, Kapur & Associates, Inc.



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

CERTIFICATIONS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc..

SAMPLE SUMMARY

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40107724001	151-1 (2-4)	Solid	11/26/14 14:00	12/01/14 15:25
40107724002	151-1 (17-18)	Solid	11/26/14 14:30	12/01/14 15:25
40107724003	151-2 (3-5)	Solid	11/25/14 14:30	12/01/14 15:25
40107724004	151-2 (17-18)	Solid	11/26/14 11:40	12/01/14 15:25
40107724005	151-3 (3-5)	Solid	11/25/14 14:10	12/01/14 15:25
40107724006	151-3 (17-18)	Solid	11/26/14 12:30	12/01/14 15:25
40107724007	151-4 (2-4)	Solid	11/26/14 13:10	12/01/14 15:25
40107724008	151-4 (17-18)	Solid	11/26/14 13:40	12/01/14 15:25
40107724009	TRIP	Solid	11/26/14 14:30	12/01/14 15:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40107724001	151-1 (2-4)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724002	151-1 (17-18)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724003	151-2 (3-5)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724004	151-2 (17-18)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724005	151-3 (3-5)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724006	151-3 (17-18)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724007	151-4 (2-4)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
40107724008	151-4 (17-18)	WI MOD DRO	CAC	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G

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SAMPLE ANALYTE COUNT

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40107724009	TRIP	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		ASTM D2974-87	KJB	1	PASI-G
		WI MOD GRO	LCF	1	PASI-G
		EPA 8260	SMT	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-1 (2-4) **Lab ID: 40107724001** Collected: 11/26/14 14:00 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	0.95J	mg/kg	2.3	0.92	1	12/05/14 08:40	12/09/14 14:57		2q
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	<2.8	mg/kg	5.7	2.8	1	12/04/14 06:10	12/04/14 18:03		
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	8.0	mg/kg	0.98	0.42	1	12/03/14 08:42	12/03/14 15:51	7439-92-1	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 20:20	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 20:20	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 20:20	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 20:20	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 20:20	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	74-95-3	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-1 (2-4) **Lab ID: 40107724001** Collected: 11/26/14 14:00 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 20:20	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 20:20	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:20	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	91 %		37-152		1	12/04/14 08:00	12/04/14 20:20	1868-53-7	
Toluene-d8 (S)	91 %		38-154		1	12/04/14 08:00	12/04/14 20:20	2037-26-5	
4-Bromofluorobenzene (S)	86 %		39-139		1	12/04/14 08:00	12/04/14 20:20	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **12.2 %** 0.10 0.10 1 12/04/14 15:55

Sample: 151-1 (17-18) **Lab ID: 40107724002** Collected: 11/26/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	1.8J	mg/kg	2.4	0.96	1	12/05/14 08:40	12/09/14 15:06		2q
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	<3.0	mg/kg	6.0	3.0	1	12/04/14 06:10	12/04/14 19:20		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

Sample: 151-1 (17-18) **Lab ID: 40107724002** Collected: 11/26/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	5.6	mg/kg	1.1	0.46	1	12/03/14 08:42	12/03/14 15:56	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 20:43	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 20:43	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 20:43	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 20:43	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 20:43	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	1634-04-4	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-1 (17-18) **Lab ID: 40107724002** Collected: 11/26/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 20:43	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 20:43	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 20:43	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	93 %		37-152		1	12/04/14 08:00	12/04/14 20:43	1868-53-7	
Toluene-d8 (S)	89 %		38-154		1	12/04/14 08:00	12/04/14 20:43	2037-26-5	
4-Bromofluorobenzene (S)	84 %		39-139		1	12/04/14 08:00	12/04/14 20:43	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.3 %		0.10	0.10	1		12/04/14 15:55		

Sample: 151-2 (3-5) **Lab ID: 40107724003** Collected: 11/25/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	24.3	mg/kg	2.3	0.94	1	12/05/14 08:40	12/09/14 16:01		2q,T4
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Gasoline Range Organics	456	mg/kg	23.5	11.7	4	12/04/14 06:10	12/04/14 20:11		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	6.7	mg/kg	1.1	0.49	1	12/03/14 08:42	12/03/14 15:58	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	630-20-6	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-2 (3-5) Lab ID: 40107724003 Collected: 11/25/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 21:05	120-82-1	W
1,2,4-Trimethylbenzene	110	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	95-63-6	
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 21:05	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	78-87-5	W
1,3,5-Trimethylbenzene	35.0J	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	108-67-8	
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	106-43-4	W
Benzene	85.9	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	71-43-2	
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 21:05	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 21:05	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 21:05	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	108-20-3	W
Ethylbenzene	1580	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	100-41-4	
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	87-68-3	W
Isopropylbenzene (Cumene)	1040	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	98-82-8	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-09-2	W
Naphthalene	5310	ug/kg	293	47.0	1	12/04/14 08:00	12/04/14 21:05	91-20-3	
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	127-18-4	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

Sample: 151-2 (3-5) **Lab ID: 40107724003** Collected: 11/25/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	10061-01-5	W
m&p-Xylene	70.9J	ug/kg	141	58.7	1	12/04/14 08:00	12/04/14 21:05	179601-23-1	
n-Butylbenzene	2200	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	104-51-8	
n-Propylbenzene	3710	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	103-65-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	95-47-6	W
p-Isopropyltoluene	43.4J	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	99-87-6	
sec-Butylbenzene	745	ug/kg	70.4	29.3	1	12/04/14 08:00	12/04/14 21:05	135-98-8	
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:05	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	102	%	37-152		1	12/04/14 08:00	12/04/14 21:05	1868-53-7	
Toluene-d8 (S)	94	%	38-154		1	12/04/14 08:00	12/04/14 21:05	2037-26-5	
4-Bromofluorobenzene (S)	95	%	39-139		1	12/04/14 08:00	12/04/14 21:05	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture **14.8** % 0.10 0.10 1 12/04/14 15:56

Sample: 151-2 (17-18) **Lab ID: 40107724004** Collected: 11/26/14 11:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	<0.97	mg/kg	2.4	0.97	1	12/05/14 08:40	12/09/14 14:48		2q
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Gasoline Range Organics	<3.0	mg/kg	6.0	3.0	1	12/04/14 06:10	12/04/14 22:19		
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Lead	6.7	mg/kg	1.0	0.44	1	12/03/14 08:42	12/03/14 16:05	7439-92-1	
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-34-3	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

Sample: 151-2 (17-18) **Lab ID: 40107724004** Collected: 11/26/14 11:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 21:28	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 21:28	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 21:28	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 21:28	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 21:28	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 21:28	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	75-01-4	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-2 (17-18) **Lab ID: 40107724004** Collected: 11/26/14 11:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 21:28	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:28	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	88 %		37-152		1	12/04/14 08:00	12/04/14 21:28	1868-53-7	
Toluene-d8 (S)	86 %		38-154		1	12/04/14 08:00	12/04/14 21:28	2037-26-5	
4-Bromofluorobenzene (S)	83 %		39-139		1	12/04/14 08:00	12/04/14 21:28	460-00-4	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	17.1 %		0.10	0.10	1		12/04/14 15:56		
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Sample: 151-3 (3-5) **Lab ID: 40107724005** Collected: 11/25/14 14:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	<0.92	mg/kg	2.3	0.92	1	12/05/14 08:40	12/09/14 15:15		2q
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Gasoline Range Organics	<2.9	mg/kg	5.7	2.9	1	12/04/14 06:10	12/04/14 22:45		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	15.0	mg/kg	1.0	0.43	1	12/03/14 08:42	12/03/14 16:08	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	96-18-4	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-3 (3-5) **Lab ID: 40107724005** Collected: 11/25/14 14:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 21:51	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 21:51	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 21:51	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 21:51	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 21:51	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 21:51	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 21:51	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	104-51-8	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-3 (3-5) Lab ID: 40107724005 Collected: 11/25/14 14:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 21:51	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	101	%	37-152		1	12/04/14 08:00	12/04/14 21:51	1868-53-7	
Toluene-d8 (S)	95	%	38-154		1	12/04/14 08:00	12/04/14 21:51	2037-26-5	
4-Bromofluorobenzene (S)	92	%	39-139		1	12/04/14 08:00	12/04/14 21:51	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	12.9	%	0.10	0.10	1		12/04/14 15:56		

Sample: 151-3 (17-18) Lab ID: 40107724006 Collected: 11/26/14 12:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	1.8J	mg/kg	2.3	0.94	1	12/05/14 08:40	12/09/14 15:24		2q
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Gasoline Range Organics	<2.9	mg/kg	5.9	2.9	1	12/04/14 06:10	12/04/14 23:11		P4
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	5.6	mg/kg	1.1	0.48	1	12/03/14 08:42	12/03/14 16:10	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	87-61-6	W
1,2,3-Trichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/05/14 00:29	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/05/14 00:29	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	106-93-4	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-3 (17-18) **Lab ID: 40107724006** Collected: 11/26/14 12:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	108-67-8	W
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/05/14 00:29	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/05/14 00:29	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/05/14 00:29	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/05/14 00:29	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/05/14 00:29	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	135-98-8	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-3 (17-18) **Lab ID: 40107724006** Collected: 11/26/14 12:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/05/14 00:29	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	90 %		37-152		1	12/04/14 08:00	12/05/14 00:29	1868-53-7	
Toluene-d8 (S)	89 %		38-154		1	12/04/14 08:00	12/05/14 00:29	2037-26-5	
4-Bromofluorobenzene (S)	83 %		39-139		1	12/04/14 08:00	12/05/14 00:29	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	14.8 %		0.10	0.10	1		12/04/14 15:56		

Sample: 151-4 (2-4) **Lab ID: 40107724007** Collected: 11/26/14 13:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	<1.0	mg/kg	2.6	1.0	1	12/05/14 08:40	12/09/14 14:39		2q
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Gasoline Range Organics	<3.2	mg/kg	6.4	3.2	1	12/04/14 06:10	12/04/14 23:36		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	8.0	mg/kg	1.2	0.51	1	12/03/14 08:42	12/03/14 16:13	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	630-20-6	W
1,1,1-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	79-34-5	W
1,1,2-Trichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	79-00-5	W
1,1-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-34-3	W
1,1-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-35-4	W
1,1-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	563-58-6	W
1,2,3-Trichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	87-61-6	W
1,2,3-Trichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	96-18-4	W
1,2,4-Trichlorobenzene	<47.6	ug/kg	250	47.6	1	12/04/14 08:00	12/04/14 22:13	120-82-1	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2	ug/kg	250	91.2	1	12/04/14 08:00	12/04/14 22:13	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	106-93-4	W
1,2-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	95-50-1	W
1,2-Dichloroethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	107-06-2	W
1,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	78-87-5	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	108-67-8	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-4 (2-4) Lab ID: 40107724007 Collected: 11/26/14 13:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,3-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	541-73-1	W
1,3-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	142-28-9	W
1,4-Dichlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	106-46-7	W
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 22:13	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 22:13	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 22:13	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 22:13	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 22:13	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:13	10061-02-6	W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-4 (2-4) **Lab ID: 40107724007** Collected: 11/26/14 13:10 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Surrogates									
Dibromofluoromethane (S)	94 %		37-152		1	12/04/14 08:00	12/04/14 22:13	1868-53-7	
Toluene-d8 (S)	91 %		38-154		1	12/04/14 08:00	12/04/14 22:13	2037-26-5	
4-Bromofluorobenzene (S)	87 %		39-139		1	12/04/14 08:00	12/04/14 22:13	460-00-4	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	21.7 %		0.10	0.10	1		12/04/14 15:56		

Sample: 151-4 (17-18) **Lab ID: 40107724008** Collected: 11/26/14 13:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

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	3.0 mg/kg		2.4	0.98	1	12/05/14 08:40	12/09/14 15:33		2q
WIGRO GCV		Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.							
Gasoline Range Organics	<3.0 mg/kg		6.1	3.0	1	12/04/14 06:10	12/04/14 21:54		
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Lead	7.3 mg/kg		1.2	0.50	1	12/03/14 08:42	12/03/14 16:15	7439-92-1	
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	630-20-6	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	79-34-5	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	79-00-5	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-34-3	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-35-4	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	563-58-6	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	87-61-6	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	96-18-4	W
1,2,4-Trichlorobenzene	<47.6 ug/kg		250	47.6	1	12/04/14 08:00	12/04/14 22:36	120-82-1	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2 ug/kg		250	91.2	1	12/04/14 08:00	12/04/14 22:36	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	106-93-4	W
1,2-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	95-50-1	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	107-06-2	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	78-87-5	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	108-67-8	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	541-73-1	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	142-28-9	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	106-46-7	W

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-4 (17-18) **Lab ID: 40107724008** Collected: 11/26/14 13:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List									
Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B									
2,2-Dichloropropane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	594-20-7	W
2-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	95-49-8	W
4-Chlorotoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	106-43-4	W
Benzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	71-43-2	W
Bromobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	108-86-1	W
Bromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	74-97-5	W
Bromodichloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-27-4	W
Bromoform	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-25-2	W
Bromomethane	<69.9	ug/kg	250	69.9	1	12/04/14 08:00	12/04/14 22:36	74-83-9	W
Carbon tetrachloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	56-23-5	W
Chlorobenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	108-90-7	W
Chloroethane	<67.0	ug/kg	250	67.0	1	12/04/14 08:00	12/04/14 22:36	75-00-3	1q,L3,W
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 22:36	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 22:36	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 22:36	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 22:36	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	89 %		37-152		1	12/04/14 08:00	12/04/14 22:36	1868-53-7	
Toluene-d8 (S)	86 %		38-154		1	12/04/14 08:00	12/04/14 22:36	2037-26-5	
4-Bromofluorobenzene (S)	82 %		39-139		1	12/04/14 08:00	12/04/14 22:36	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: 151-4 (17-18) **Lab ID: 40107724008** Collected: 11/26/14 13:40 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	17.6 %		0.10	0.10	1		12/04/14 15:56		

Sample: TRIP **Lab ID: 40107724009** Collected: 11/26/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "wet-weight" basis

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.									
Gasoline Range Organics	<2.5 mg/kg		5.0	2.5	1	12/04/14 06:10	12/04/14 18:29		

8260 MSV Med Level Normal List Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B

1,1,1,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	630-20-6	W
1,1,1-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	71-55-6	W
1,1,2,2-Tetrachloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	79-34-5	W
1,1,2-Trichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	79-00-5	W
1,1-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-34-3	W
1,1-Dichloroethene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-35-4	W
1,1-Dichloropropene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	563-58-6	W
1,2,3-Trichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	87-61-6	W
1,2,3-Trichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	96-18-4	W
1,2,4-Trichlorobenzene	<47.6 ug/kg		250	47.6	1	12/04/14 08:00	12/04/14 18:05	120-82-1	W
1,2,4-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	95-63-6	W
1,2-Dibromo-3-chloropropane	<91.2 ug/kg		250	91.2	1	12/04/14 08:00	12/04/14 18:05	96-12-8	W
1,2-Dibromoethane (EDB)	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	106-93-4	W
1,2-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	95-50-1	W
1,2-Dichloroethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	107-06-2	W
1,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	78-87-5	W
1,3,5-Trimethylbenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	108-67-8	W
1,3-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	541-73-1	W
1,3-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	142-28-9	W
1,4-Dichlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	106-46-7	W
2,2-Dichloropropane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	594-20-7	W
2-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	95-49-8	W
4-Chlorotoluene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	106-43-4	W
Benzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	71-43-2	W
Bromobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	108-86-1	W
Bromochloromethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	74-97-5	W
Bromodichloromethane	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-27-4	W
Bromoform	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-25-2	W
Bromomethane	<69.9 ug/kg		250	69.9	1	12/04/14 08:00	12/04/14 18:05	74-83-9	W
Carbon tetrachloride	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	56-23-5	W
Chlorobenzene	<25.0 ug/kg		60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	108-90-7	W
Chloroethane	<67.0 ug/kg		250	67.0	1	12/04/14 08:00	12/04/14 18:05	75-00-3	1q,L3,W

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ANALYTICAL RESULTS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Sample: TRIP **Lab ID:** 40107724009 Collected: 11/26/14 14:30 Received: 12/01/14 15:25 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List		Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B							
Chloroform	<46.4	ug/kg	250	46.4	1	12/04/14 08:00	12/04/14 18:05	67-66-3	W
Chloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	74-87-3	W
Dibromochloromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	124-48-1	W
Dibromomethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	74-95-3	W
Dichlorodifluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-71-8	W
Diisopropyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	108-20-3	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	100-41-4	W
Hexachloro-1,3-butadiene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	87-68-3	W
Isopropylbenzene (Cumene)	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	98-82-8	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	1634-04-4	W
Methylene Chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-09-2	W
Naphthalene	<40.0	ug/kg	250	40.0	1	12/04/14 08:00	12/04/14 18:05	91-20-3	W
Styrene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	100-42-5	W
Tetrachloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	127-18-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	108-88-3	W
Trichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	79-01-6	W
Trichlorofluoromethane	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-69-4	W
Vinyl chloride	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	75-01-4	W
cis-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	156-59-2	W
cis-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	10061-01-5	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	12/04/14 08:00	12/04/14 18:05	179601-23-1	W
n-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	104-51-8	W
n-Propylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	103-65-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	95-47-6	W
p-Isopropyltoluene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	99-87-6	W
sec-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	135-98-8	W
tert-Butylbenzene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	98-06-6	W
trans-1,2-Dichloroethene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	156-60-5	W
trans-1,3-Dichloropropene	<25.0	ug/kg	60.0	25.0	1	12/04/14 08:00	12/04/14 18:05	10061-02-6	W
Surrogates									
Dibromofluoromethane (S)	106	%	37-152		1	12/04/14 08:00	12/04/14 18:05	1868-53-7	
Toluene-d8 (S)	98	%	38-154		1	12/04/14 08:00	12/04/14 18:05	2037-26-5	
4-Bromofluorobenzene (S)	96	%	39-139		1	12/04/14 08:00	12/04/14 18:05	460-00-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

QC Batch: MSV/26760 Analysis Method: EPA 8260
 QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
 Associated Lab Samples: 40107724001, 40107724002, 40107724003, 40107724004, 40107724005, 40107724006, 40107724007, 40107724008, 40107724009

METHOD BLANK: 1091720 Matrix: Solid
 Associated Lab Samples: 40107724001, 40107724002, 40107724003, 40107724004, 40107724005, 40107724006, 40107724007, 40107724008, 40107724009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	12/04/14 16:12	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	12/04/14 16:12	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	12/04/14 16:12	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	12/04/14 16:12	
1,1-Dichloroethane	ug/kg	<17.6	50.0	12/04/14 16:12	
1,1-Dichloroethene	ug/kg	<17.6	50.0	12/04/14 16:12	
1,1-Dichloropropene	ug/kg	<14.0	50.0	12/04/14 16:12	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	12/04/14 16:12	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	12/04/14 16:12	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	12/04/14 16:12	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	12/04/14 16:12	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	12/04/14 16:12	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	12/04/14 16:12	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	12/04/14 16:12	
1,2-Dichloroethane	ug/kg	<15.0	50.0	12/04/14 16:12	
1,2-Dichloropropane	ug/kg	<16.8	50.0	12/04/14 16:12	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	12/04/14 16:12	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	12/04/14 16:12	
1,3-Dichloropropane	ug/kg	<12.0	50.0	12/04/14 16:12	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	12/04/14 16:12	
2,2-Dichloropropane	ug/kg	<12.6	50.0	12/04/14 16:12	
2-Chlorotoluene	ug/kg	<15.8	50.0	12/04/14 16:12	
4-Chlorotoluene	ug/kg	<13.0	50.0	12/04/14 16:12	
Benzene	ug/kg	<9.2	20.0	12/04/14 16:12	
Bromobenzene	ug/kg	<20.6	50.0	12/04/14 16:12	
Bromochloromethane	ug/kg	<21.4	50.0	12/04/14 16:12	
Bromodichloromethane	ug/kg	<9.8	50.0	12/04/14 16:12	
Bromoform	ug/kg	<19.8	50.0	12/04/14 16:12	
Bromomethane	ug/kg	<69.9	250	12/04/14 16:12	
Carbon tetrachloride	ug/kg	<12.1	50.0	12/04/14 16:12	
Chlorobenzene	ug/kg	<14.8	50.0	12/04/14 16:12	
Chloroethane	ug/kg	<67.0	250	12/04/14 16:12	1q
Chloroform	ug/kg	<46.4	250	12/04/14 16:12	
Chloromethane	ug/kg	<20.4	50.0	12/04/14 16:12	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	12/04/14 16:12	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	12/04/14 16:12	
Dibromochloromethane	ug/kg	<17.9	50.0	12/04/14 16:12	
Dibromomethane	ug/kg	<19.3	50.0	12/04/14 16:12	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	12/04/14 16:12	
Diisopropyl ether	ug/kg	<17.7	50.0	12/04/14 16:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

METHOD BLANK: 1091720

Matrix: Solid

Associated Lab Samples: 40107724001, 40107724002, 40107724003, 40107724004, 40107724005, 40107724006, 40107724007, 40107724008, 40107724009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/kg	<12.4	50.0	12/04/14 16:12	
Hexachloro-1,3-butadiene	ug/kg	<24.5	50.0	12/04/14 16:12	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	12/04/14 16:12	
m&p-Xylene	ug/kg	<34.4	100	12/04/14 16:12	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	12/04/14 16:12	
Methylene Chloride	ug/kg	<16.2	50.0	12/04/14 16:12	
n-Butylbenzene	ug/kg	<10.5	50.0	12/04/14 16:12	
n-Propylbenzene	ug/kg	<11.6	50.0	12/04/14 16:12	
Naphthalene	ug/kg	<40.0	250	12/04/14 16:12	
o-Xylene	ug/kg	<14.0	50.0	12/04/14 16:12	
p-Isopropyltoluene	ug/kg	<12.0	50.0	12/04/14 16:12	
sec-Butylbenzene	ug/kg	<11.9	50.0	12/04/14 16:12	
Styrene	ug/kg	<9.0	50.0	12/04/14 16:12	
tert-Butylbenzene	ug/kg	<9.5	50.0	12/04/14 16:12	
Tetrachloroethene	ug/kg	<12.9	50.0	12/04/14 16:12	
Toluene	ug/kg	<11.2	50.0	12/04/14 16:12	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	12/04/14 16:12	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	12/04/14 16:12	
Trichloroethene	ug/kg	<23.6	50.0	12/04/14 16:12	
Trichlorofluoromethane	ug/kg	<24.7	50.0	12/04/14 16:12	
Vinyl chloride	ug/kg	<21.1	50.0	12/04/14 16:12	
4-Bromofluorobenzene (S)	%	89	39-139	12/04/14 16:12	
Dibromofluoromethane (S)	%	106	37-152	12/04/14 16:12	
Toluene-d8 (S)	%	105	38-154	12/04/14 16:12	

LABORATORY CONTROL SAMPLE & LCSD: 1091721

1091722

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2610	2580	104	103	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2690	2680	107	107	70-130	0	20	
1,1,2-Trichloroethane	ug/kg	2500	2620	2670	105	107	70-130	2	20	
1,1-Dichloroethane	ug/kg	2500	3050	3010	122	120	70-130	2	20	
1,1-Dichloroethene	ug/kg	2500	2880	2910	115	116	70-130	1	20	
1,2,4-Trichlorobenzene	ug/kg	2500	2450	2390	98	96	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/kg	2500	1920	1960	77	78	50-150	2	20	
1,2-Dibromoethane (EDB)	ug/kg	2500	2620	2600	105	104	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	2500	2750	2730	110	109	70-130	1	20	
1,2-Dichloroethane	ug/kg	2500	2940	2830	118	113	70-141	4	20	
1,2-Dichloropropane	ug/kg	2500	2750	2730	110	109	70-130	1	20	
1,3-Dichlorobenzene	ug/kg	2500	2700	2700	108	108	70-130	0	20	
1,4-Dichlorobenzene	ug/kg	2500	2760	2790	110	112	70-130	1	20	
Benzene	ug/kg	2500	3050	2970	122	119	70-130	3	20	
Bromodichloromethane	ug/kg	2500	2430	2500	97	100	70-130	3	20	

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QUALITY CONTROL DATA

Project: 12.0260.01 I-94 EAST/WEST
Pace Project No.: 40107724

LABORATORY CONTROL SAMPLE & LCSD:		1091721	1091722								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
Bromoform	ug/kg	2500	2030	2080	81	83	70-130	2	20		
Bromomethane	ug/kg	2500	3490	3370	140	135	34-173	3	20		
Carbon tetrachloride	ug/kg	2500	2580	2590	103	103	70-130	0	20		
Chlorobenzene	ug/kg	2500	2670	2650	107	106	70-130	1	20		
Chloroethane	ug/kg	2500	4590	4530	184	181	44-173	1	20	CC,L0	
Chloroform	ug/kg	2500	2970	2880	119	115	70-130	3	20		
Chloromethane	ug/kg	2500	3210	3050	128	122	43-130	5	20		
cis-1,2-Dichloroethene	ug/kg	2500	2980	2870	119	115	70-130	4	20		
cis-1,3-Dichloropropene	ug/kg	2500	2280	2370	91	95	70-130	4	20		
Dibromochloromethane	ug/kg	2500	2380	2450	95	98	70-130	3	20		
Dichlorodifluoromethane	ug/kg	2500	2620	2500	105	100	10-150	5	20		
Ethylbenzene	ug/kg	2500	2710	2660	108	106	70-130	2	20		
Isopropylbenzene (Cumene)	ug/kg	2500	2800	2760	112	110	70-130	1	20		
m&p-Xylene	ug/kg	5000	5490	5440	110	109	70-130	1	20		
Methyl-tert-butyl ether	ug/kg	2500	2760	2740	110	109	65-131	1	20		
Methylene Chloride	ug/kg	2500	2990	2870	120	115	64-143	4	20		
o-Xylene	ug/kg	2500	2740	2740	110	110	70-130	0	20		
Styrene	ug/kg	2500	2780	2780	111	111	70-130	0	20		
Tetrachloroethene	ug/kg	2500	2460	2360	98	94	70-130	4	20		
Toluene	ug/kg	2500	2750	2650	110	106	70-130	4	20		
trans-1,2-Dichloroethene	ug/kg	2500	2940	2860	118	114	70-130	3	20		
trans-1,3-Dichloropropene	ug/kg	2500	2190	2190	87	88	70-130	0	20		
Trichloroethene	ug/kg	2500	2740	2740	110	110	70-130	0	20		
Trichlorofluoromethane	ug/kg	2500	2910	2850	117	114	50-150	2	20		
Vinyl chloride	ug/kg	2500	2930	2870	117	115	57-130	2	20		
4-Bromofluorobenzene (S)	%				98	97	39-139				
Dibromofluoromethane (S)	%				113	112	37-152				
Toluene-d8 (S)	%				100	97	38-154				

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QUALITY CONTROL DATA

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

QC Batch:	PMST/10714	Analysis Method:	ASTM D2974-87
QC Batch Method:	ASTM D2974-87	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	40107724001, 40107724002, 40107724003, 40107724004, 40107724005, 40107724006, 40107724007, 40107724008		

SAMPLE DUPLICATE: 1091783

Parameter	Units	40107724008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.6	16.9	4	10	

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QUALIFIERS

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

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.

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

LOD - Limit of Detection.

LOQ - Limit of Quantitation.

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

BATCH QUALIFIERS

Batch: MSV/26764

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1q Analyte recovery in the continuing calibration verification (CCV) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

2q The sample weight in the container did not meet method specifications. Sample was sub-sampled to meet method criteria.

CC The continuing calibration for this compound is outside of method control limits. The result is estimated.

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

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

P4 Sample field preservation does not meet EPA or method recommendations for this analysis.

T4 Result reported for hydrocarbons within the method-specific range that do not match pattern of laboratory standard.

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

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 12.0260.01 I-94 EAST/WEST

Pace Project No.: 40107724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40107724001	151-1 (2-4)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724002	151-1 (17-18)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724003	151-2 (3-5)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724004	151-2 (17-18)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724005	151-3 (3-5)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724006	151-3 (17-18)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724007	151-4 (2-4)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724008	151-4 (17-18)	WI MOD DRO	OEXT/25391	WI MOD DRO	GCSV/12341
40107724001	151-1 (2-4)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724002	151-1 (17-18)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724003	151-2 (3-5)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724004	151-2 (17-18)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724005	151-3 (3-5)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724006	151-3 (17-18)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724007	151-4 (2-4)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724008	151-4 (17-18)	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724009	TRIP	TPH GRO/PVOC WI ext.	GCV/13685	WI MOD GRO	GCV/13688
40107724001	151-1 (2-4)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724002	151-1 (17-18)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724003	151-2 (3-5)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724004	151-2 (17-18)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724005	151-3 (3-5)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724006	151-3 (17-18)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724007	151-4 (2-4)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724008	151-4 (17-18)	EPA 3050	MPRP/11178	EPA 6010	ICP/9933
40107724001	151-1 (2-4)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724002	151-1 (17-18)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724003	151-2 (3-5)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724004	151-2 (17-18)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724005	151-3 (3-5)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724006	151-3 (17-18)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724007	151-4 (2-4)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724008	151-4 (17-18)	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724009	TRIP	EPA 5035/5030B	MSV/26760	EPA 8260	MSV/26764
40107724001	151-1 (2-4)	ASTM D2974-87	PMST/10714		
40107724002	151-1 (17-18)	ASTM D2974-87	PMST/10714		
40107724003	151-2 (3-5)	ASTM D2974-87	PMST/10714		
40107724004	151-2 (17-18)	ASTM D2974-87	PMST/10714		
40107724005	151-3 (3-5)	ASTM D2974-87	PMST/10714		
40107724006	151-3 (17-18)	ASTM D2974-87	PMST/10714		
40107724007	151-4 (2-4)	ASTM D2974-87	PMST/10714		
40107724008	151-4 (17-18)	ASTM D2974-87	PMST/10714		

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UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

JKW

40107724

CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other
 Preservation Codes

FILTERED?
 (YES/NO)
 PRESERVATION
 (CODE)

Company Name: Kayak & Assoc
 Branch/Location: MDE
 Project Contact: Tavis Peterson
 Phone: 414 751 7279
 Project Number: 12.02600.01
 Project Name: 1-94 East West
 Project State: WI
 Sampled By (Print): Nicholas Connor
 Sampled By (Sign): Nicholas Connor
 PO #: _____
 Regulatory Program: DE

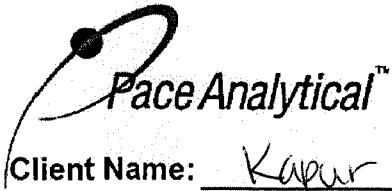
Data Package Options
 EPA Level III
 EPA Level IV
 On your sample (billable)
 NOT needed on your sample
Matrix Codes
 A = Air B = Biotra C = Charcoal D = Oil E = Soil F = Sludge
 G = Water H = Drinking Water I = Ground Water J = Surface Water K = Waste Water L = Wipe

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested			
					Pick Letter	V/I/N	Y/N	Letter
001	151-1 (2-4)	11/26/14	1400	S				
002	151-1 (17-18)	11/26/14	1430	S				
003	151-2 (3-5)	11/25/14	1430	S				
004	151-2 (17-18)	11/26/14	1140	S				
005	151-3 (3-5)	11/25/14	1410	S				
006	151-3 (17-18)	11/26/14	1330	S				
007	151-4 (2-4)	11/26/14	1310	S				
008	151-4 (17-18)	11/26/14	1340	S				
009	TRIP	11/26/14	1430	S				
↓	TRIP	11/26/14	1430	S				

Quote #:	Mail To Contact:	Mail To Company:	Mail To Address:	Invoice To Contact:	Invoice To Company:	Invoice To Address:	Invoice To Phone:	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
									2-40ml F 1-4024 1-4026 A	

Relinquished By:	Date/Time:	Relinquished By:	Date/Time:
<u>Tavis Peterson</u>	<u>Dec 1, 12:00 PM</u>	<u>Tavis Peterson</u>	<u>12/11/14 1525</u>
<u>Tavis Peterson</u>	<u>12/11/14 1525</u>	<u>Tavis Peterson</u>	<u>12/11/14 1525</u>

Cooler Custody Seal Present / Not Present Intact / Not Intact
 Receipt Temp = 20.9 °C
 Sample Receipt pH OK / Adjusted
 Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed: _____
 Transmitt Prelim Rush Results by (complete what you want): _____
 Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____
 Samples on HOLD are subject to special pricing and release of liability



Sample Condition Upon Receipt

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

Project #

WO#: 40107724

Client Name: Kapur



Courier: Fed Ex UPS Client Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used: NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun

Cooler Temperature: Uncorr: RA / Corr: _____ Biological Tissue is Frozen: yes no

Temp Blank Present: yes no

Person examining contents:
Date: 12/1/14
Initials: CA

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
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 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 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 checked="" type="checkbox"/> No <input type="checkbox"/> N/A	8. <u>004 no soil in vials</u> <u>12/1/14</u>
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>all samples for DRB filled full.</u> <u>12/1/14</u>
-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 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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>005 labels have time of 1440.</u> <u>12/1/14</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 type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> NaOH + ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lab Std #/ID of preservative
		Date/Time:
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: If checked, see attached form for additional comments

Person Contacted: Nick Canas Date/Time: 12/1/14
 Comments/ Resolution: per 11/27; subsample GEO + UOC from DRB for for O&G use done
col for sample 003. 12/1/14 CAH

Project Manager Review: CAH Date: 12/1/14

APPENDIX D

METHODS OF INVESTIGATION

METHODS OF INVESTIGATION

1. Drilling and Collection of Soil Samples

Hydraulic Push (Geoprobe)

On November 26, 2014, GESTRA, of Milwaukee, Wisconsin, advanced four (4) soil borings at the sites using direct push (Geoprobe) and split spoon boring and sampling techniques. Samples designated 151-3, 151-4 were obtained using the Geoprobe sampling technique. Sample designated 151-1 and 151-2 were obtained using the split spoon sampling technique. The Geoprobe and sampling techniques utilize a hydraulically powered, soil probing machine that uses static force and a percussion hammer to advance small diameter sampling tools into the subsurface to collect soil cores, groundwater samples, and soil gas samples. Boring and sampling by Geoprobe techniques consists in pushing hydraulically a 2.25-inch outside diameter (OD) steel sampler into the ground and retrieving the soil sample in a 48 or 60-inch long, 1.5-inch inside diameter (ID) clear acetate or PVC liner. During drilling, continuous soil samples were obtained from soil borings in general accordance with the Standard Penetration Test (SPT) procedure (ASTM D-1586) ensuring that no gaps appeared in soil column. The samples were examined for color, odor, texture, moistness, and other characteristics of the soil. These observations were used to prepare descriptive geologic logs for each boring and classify the soils according to Unified Soil Classification System (USCS).

A split-spoon sampler was utilized in 151-1 and 151-2. This sampler is an 18"-30" long, 2.0" outside diameter (OD) hollow tube split in half lengthwise. A hardened metal drive shoe with a 1.375" opening is attached to the bottom end, and a one-way valve and drill rod adapter at the sampler head. It is driven into the ground with a 140-pound (64 kg) hammer falling 30". No blow counts were obtained during soil sampling.

2. Decontamination Procedures

All down hole boring and sampling equipment was decontaminated before use and between the borings and sampling activities. The steel sampler was decontaminated by the drilling contractor personnel between samples by scrubbing off soil particles with a brush and water in a bucket with an Alconox solution and then rinsing the sampler in a separate bucket of clean water. Two or more macro-core samplers were used alternately to minimize drilling delays during decontamination of the sampler.

3. Field-Screening of Soil Samples

A portion of each sample was field-screened for the presence of VOCs using a MiniRae 2000 PID equipped with an 10.6 eV probe. The samples were tested by filling a zip-tight plastic freezer storage (zip-lock) bag half-full with desegregated soil and then sealing the bag. The bags were then set aside for a minimum of 20 minutes to allow any VOCs present within the soil to volatilize and equilibrate within headspace in the bag. If the ambient outside temperature was less than 70⁰ Fahrenheit, then the sample was heated by storing the sample bag adjacent to the heating vent inside a heated truck cab. The VOC concentration in the bag headspace was then measured by gently piercing the bag with the tip of the PID probe and recording the highest meter response shown on the HNu meter. A background measurement of ambient VOCs was also made immediately prior to each sample measurement and recorded on the PID forms. The PID was calibrated at the beginning using a standard of 100 ppm isobutylene gas and the manufacturer recommended calibration procedures.

4. **Laboratory Analysis of Soil Samples**

In addition to the soil used for PID testing, a separate portion of each sample was preserved for possible laboratory analyses. These samples were preserved by placing the soil in a labeled zip-lock bag, and then placing the bag into a cooler with ice. One or two samples from each of the borings were selected for laboratory analyses of DRO, GRO, VOCs, and lead.

The samples were collected in the laboratory provided jars. All samples were stored in a cooler with ice and maintained at a temperature of approximately 4⁰ C until delivered under chain of custody procedures to the laboratory personnel. Analytical methods used for analyzing the soil samples were: Wisconsin Modified DRO for DRO, Wisconsin Modified GRO for GRO, EPA Method 8260 for VOCs, and EPA Method 6010 for lead.

5. **Groundwater Sampling Procedures**

Groundwater at depth was not encountered during drilling activities.

6. **Laboratory Analysis of Groundwater Samples**

No groundwater samples were collected at the site.

7. **Boring Abandonment Procedures**

After the completion of soil sampling, the soil borings were properly abandoned in accordance with Chapter NR 141 of the Wisconsin Administrative Code (WAC). Each boring was backfilled to the ground surface with granular bentonite. The WDNR borehole abandonment forms were completed for each boring and are included as an appendix of this report.